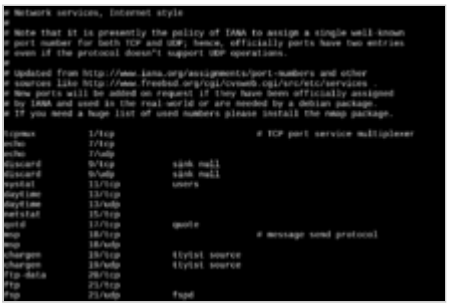
List of TCP and UDP port numbers

From Wikipedia, the free encyclopedia

This is a list of Internet socket port numbers used by protocols of the transport layer of the Internet Protocol Suite for the establishment of host-to-host connectivity.



`/etc/services`, a service name database file on Unix-like operating systems.[1][2][3][4]

Originally, port numbers were used by the Network Control Program (NCP) in the ARPANET for which two ports were required for half-duplex transmission. Later, the Transmission Control Protocol (TCP) and the User Datagram Protocol (UDP) needed only one port for full-duplex, bidirectional traffic. The even-numbered ports were not used, and this resulted in some even numbers in the well-known port number range being unassigned. The Stream Control Transmission Protocol (SCTP) and the Datagram Congestion Control Protocol (DCCP) also use port numbers. They usually use port numbers that match the services of the corresponding TCP or UDP implementation, if they exist.

The Internet Assigned Numbers Authority (IANA) is responsible for maintaining the official assignments of port numbers for specific uses.[5] However, many unofficial uses of both well-known and registered port numbers occur in practice.

Contents

Table legend

Official: Port is registered with IANA for the application.[5]

Unofficial: Port is not registered with IANA for the application.

Multiple use: Multiple applications are known to use this port.

Well-known ports

The port numbers in the range from 0 to 1023 are the *well-known ports* or *system ports*.[6] They are used by system processes that provide widely used types of network services. On Unix-like operating systems, a process must execute with superuser privileges to be able to bind a network socket to an IP address using one of the well-known ports.[1]

Well-known ports

Port	TCP	UDP	Description	Status
0	N/A	N/A	In programming APIs (not in communication between hosts), requests a system-allocated (dynamic) port[7][8]	N/A
0	TCP	UDP	Reserved	Official
1	TCP	UDP	TCP Port Service Multiplexer (TCPMUX). Historic. Both TCP and UDP have been assigned to TCPMUX by IANA,[5] but by design only TCP is specified.[9]	Official
4	TCP	UDP	Unassigned	Official
5	TCP	UDP	Remote job entry	Official
6	TCP	UDP	Unassigned	Official
7	TCP	UDP	Echo Protocol[10][11]	Official
8	TCP	UDP	Unassigned	Official
9	TCP SCTP[12]	UDP	Discard Protocol[13]	Official
9		UDP	Wake-on-LAN[14]	Unofficial
10	TCP	UDP	Unassigned	Official
11	TCP	UDP	Active Users (systat service)[15][16]	Official
12	TCP	UDP	Unassigned	Official
13	TCP	UDP	Daytime Protocol[17]	Official
14	TCP	UDP	Unassigned	Official
15	TCP	UDP	Previously netstat service[5][15]	Unofficial
16	TCP	UDP	Unassigned	Official
17	TCP	UDP	Quote of the Day (QOTD)[18]	Official
18	TCP	UDP	Message Send Protocol[19][20]	Official
19	TCP	UDP	Character Generator Protocol (CHARGEN)[21]	Official
20	TCP	UDP	File Transfer Protocol (FTP) data transfer[11][12]	Official
21	TCP SCTP[12]	UDP	File Transfer Protocol (FTP) control (command)[11][12][22][23]	Official
22	TCP SCTP[12]	UDP	Secure Shell (SSH),[11] secure logins, file transfers (scp, sftp) and port forwarding	Official
23	TCP	UDP	Telnet protocol—unencrypted text communications[11][24]	Official
25	TCP	UDP	Simple Mail Transfer Protocol (SMTP),[11][25] used for email routing between mail servers	Official
26	TCP	UDP	Unassigned	Official
37	TCP	UDP	Time Protocol[26]	Official
38	TCP	UDP	Route Access Protocol (RAP)[27]	Official
39	TCP	UDP	Resource Location Protocol (RLP)[28]—used for determining the location of higher level services from hosts on a network	Official
40	TCP	UDP	Unassigned	Official
42	TCP	UDP	Host Name Server Protocol[29]	Official

43	TCP	UDP	WHOIS protocol[30][31][32]	Official
49	TCP	UDP	TACACS+ Login Host protocol[33]	Official
50	TCP	UDP	Remote Mail Checking Protocol[34]	Official
51			Reserved	Official
51	TCP	UDP	Previously Interface Message Processor logical address management	Unofficial
52	TCP	UDP	Xerox Network Systems (XNS) Time Protocol	Official
53	TCP	UDP	Domain Name System (DNS)[11]	Official
54	TCP	UDP	Xerox Network Systems (XNS) clearinghouse	Official
56	TCP	UDP	Xerox Network Systems (XNS) authentication	Official
57	TCP	UDP	Any private terminal access	Official
58	TCP	UDP	Xerox Network Systems (XNS) Mail	Official
67	TCP	UDP	Bootstrap Protocol (BOOTP) server;[11] also used by Dynamic Host Configuration Protocol (DHCP)	Official
68	TCP	UDP	Bootstrap Protocol (BOOTP) client;[11] also used by Dynamic Host Configuration Protocol (DHCP)	Official
69	TCP	UDP	Trivial File Transfer Protocol (TFTP)[11][35][36][37]	Official
70	TCP	UDP	Gopher protocol[38]	Official
71–74	TCP	UDP	NETRJS protocol[39][40][41]	Official
75	TCP	UDP	Any private dial out service	Official
77	TCP	UDP	Any private Remote job entry	Official
79	TCP	UDP	Finger protocol[11][42][43]	Official
80	TCP SCTP[12]	UDP[44]	Hypertext Transfer Protocol (HTTP)[11][45][46][47]	Official
80		UDP	QUIC (from Chromium) for HTTP	Unofficial
81			Unassigned	Official
81	TCP		TorPark onion routing	Unofficial
82		UDP	TorPark control	Unofficial
87			Any private terminal link	Official
88	TCP	UDP	Kerberos[11][48][49] authentication system	Official
90	TCP	UDP	dnsix (DoD Network Security for Information Exchange) Securit [*sic?*] Attribute Token Map	Official
90	TCP	UDP	PointCast (dotcom)[5]	Unofficial
99	TCP		WIP message protocol	Unofficial
100			Unassigned (with known unauthorized use)[5]	Official
101	TCP	UDP	NIC host name	Official
102	TCP	UDP	ISO Transport Service Access Point (TSAP) Class 0 protocol;[50][51]	Official
104	TCP	UDP	Digital Imaging and Communications in Medicine (DICOM; also port 11112)	Official
105	TCP	UDP	CCSO Nameserver[52]	Official

107	TCP	UDP	Remote User Telnet Service (RTelnet)[53]	Official
108	TCP	UDP	IBM Systems Network Architecture (SNA) gateway access server	Official
109	TCP	UDP	Post Office Protocol, version 2 (POP2)[54]	Official
110	TCP	UDP	Post Office Protocol, version 3 (POP3)[11][55][56]	Official
111	TCP	UDP	Open Network Computing Remote Procedure Call (**ONC RPC**, sometimes referred to as **Sun RPC**)	Official
112	TCP		Virtual Router Redundancy Protocol (**VRRP**)[57]	Unofficial
113	TCP		Ident, authentication service/identification protocol,[11][58] used by IRC servers to identify users	Official
113	TCP	UDP	Authentication Service (auth), the predecessor to *identification protocol*. Used to determine a user's identity of a particular TCP connection.[59]	Official
114			Unassigned (deprecated since June 2004)[5]	Official
115	TCP	UDP	Simple File Transfer Protocol[11][60]	Official
117	TCP	UDP	UUCP Mapping Project (path service)	Official
118	TCP	UDP	Structured Query Language (SQL) Services	Official
119	TCP	UDP	Network News Transfer Protocol (NNTP),[11] retrieval of newsgroup messages[61][62]	Official
123	TCP	UDP	Network Time Protocol (NTP), used for time synchronization[11]	Official
126	TCP	UDP	Formerly Unisys Unitary Login, renamed by Unisys to NXEdit. Used by Unisys Programmer's Workbench for Clearpath MCP, an IDE for Unisys MCP software development	Official
135	TCP	UDP	DCE endpoint resolution	Official
135	TCP	UDP	Microsoft EPMAP (End Point Mapper), also known as DCE/RPC Locator service,[63] used to remotely manage services including DHCP server, DNS server and WINS. Also used by DCOM	Official
137	TCP	UDP	NetBIOS Name Service, used for name registration and resolution[64][65]	Official
138	TCP	UDP	NetBIOS Datagram Service[11][64][65]	Official
139	TCP	UDP	NetBIOS Session Service[64][65]	Official
143	TCP	UDP	Internet Message Access Protocol (IMAP),[11] management of electronic mail messages on a server[66]	Official
152	TCP	UDP	Background File Transfer Program (BFTP)[67]	Official
153	TCP	UDP	Simple Gateway Monitoring Protocol (SGMP), a protocol for remote inspection and alteration of gateway management information[68]	Official
156	TCP	UDP	Structured Query Language (SQL) Service	Official
158	TCP	UDP	Distributed Mail System Protocol (**DMSP**, sometimes referred to as **Pcmail**)[69]	Official
161	TCP	UDP	Simple Network Management Protocol (SNMP)[70][11]	Official
162	TCP	UDP	Simple Network Management Protocol Trap (SNMPTRAP)[70][71]	Official
170	TCP	UDP	Print server	Official
177	TCP	UDP	X Display Manager Control Protocol (XDMCP), used for remote	Official

			logins to an X Display Manager server[72]	
179	TCP SCTP[12]	UDP	Border Gateway Protocol (BGP),[73] used to exchange routing and reachability information among autonomous systems (AS) on the Internet	Official
194	TCP	UDP	Internet Relay Chat (IRC)[74]	Official
199	TCP	UDP	SNMP multiplexing protocol (SMUX)[75][76]	Official
201	TCP	UDP	AppleTalk Routing Maintenance	Official
209	TCP	UDP	Quick Mail Transfer Protocol	Official
210	TCP	UDP	ANSI Z39.50	Official
213	TCP	UDP	Internetwork Packet Exchange (IPX)	Official
218	TCP	UDP	Message posting protocol (MPP)	Official
220	TCP	UDP	Internet Message Access Protocol (IMAP), version 3	Official
259	TCP	UDP	Efficient Short Remote Operations (ESRO)	Official
262	TCP	UDP	Arcisdms	Official
264	TCP	UDP	Border Gateway Multicast Protocol (BGMP)	Official
280	TCP	UDP	http-mgmt	Official
300	TCP		ThinLinc Web Access	Unofficial
308	TCP		Novastor Online Backup	Official
311	TCP		Mac OS X Server Admin[11] (officially AppleShare IP Web administration[5])	Official
318	TCP	UDP	PKIX Time Stamp Protocol (TSP)	Official
319		UDP	Precision Time Protocol (PTP) event messages	Official
320		UDP	Precision Time Protocol (PTP) general messages	Official
350	TCP	UDP	Mapping of Airline Traffic over Internet Protocol (MATIP) type A	Official
351	TCP	UDP	MATIP type B	Official
356	TCP	UDP	cloanto-net-1 (used by Cloanto Amiga Explorer and VMs)	Official
366	TCP	UDP	On-Demand Mail Relay (ODMR)	Official
369	TCP	UDP	Rpc2portmap	Official
370	TCP		codaauth2, Coda authentication server	Official
370		UDP	codaauth2, Coda authentication server	Official
370		UDP	securecast1, outgoing packets to NAI's SecureCast servers[77]As of 2000	Official
371	TCP	UDP	ClearCase albd	Official
383	TCP	UDP	HP data alarm manager	Official
384	TCP	UDP	A Remote Network Server System	Official
387	TCP	UDP	AURP (AppleTalk Update-based Routing Protocol)[78]	Official
389	TCP	UDP	Lightweight Directory Access Protocol (LDAP)[11]	Official
399	TCP	UDP	Digital Equipment Corporation DECnet (Phase V+) over TCP/IP	Official
401	TCP	UDP	Uninterruptible power supply (UPS)	Official
427	TCP	UDP	Service Location Protocol (SLP)[11]	Official
433	TCP	UDP	NNSP, part of Network News Transfer Protocol	Official
434	TCP	UDP	Mobile IP Agent (RFC 5944)	Official

443	TCP SCTP[12]	UDP	Hypertext Transfer Protocol over TLS/SSL (HTTPS)[11]	Official
443		UDP	QUIC (from Chromium) for HTTPS	Unofficial
444	TCP	UDP	Simple Network Paging Protocol (SNPP), RFC 1568	Official
444	TCP		Well known Slither.io port	Unofficial
445	TCP	UDP	Microsoft-DS Active Directory, Windows shares	Official
445	TCP	UDP	Microsoft-DS SMB[11] file sharing	Official
464	TCP	UDP	Kerberos Change/Set password	Official
465	TCP		URL Rendezvous Directory for SSM (Cisco protocol)	Official
465	TCP		Authenticated SMTP[11] over TLS/SSL (SMTPS)	Unofficial
475	TCP	UDP	tcpnethaspsrv, Aladdin Knowledge Systems Hasp services	Official
491	TCP		GO-Global remote access and application publishing software	Unofficial
497	TCP	UDP	Retrospect	Official
500	TCP	UDP	Internet Security Association and Key Management Protocol (ISAKMP) / Internet Key Exchange (IKE)[11]	Official
502	TCP	UDP	Modbus Protocol	Official
504	TCP	UDP	Citadel, multiservice protocol for dedicated clients for the Citadel groupware system	Official
510	TCP	UDP	FirstClass Protocol (FCP), used by FirstClass client/server groupware system	Official
512	TCP		Rexec, Remote Process Execution	Official
512		UDP	comsat, together with biff	Official
513	TCP		rlogin	Official
513		UDP	Who[79]	Official
514	TCP		Remote Shell, used to execute non-interactive commands on a remote system (Remote Shell, rsh, remsh)	Official
514		UDP	Syslog,[11] used for system logging	Official
515	TCP		Line Printer Daemon (LPD),[11] print service	Official
517		UDP	Talk	Official
518		UDP	NTalk	Official
520	TCP		efs, extended file name server	Official
520		UDP	Routing Information Protocol (RIP)	Official
521		UDP	Routing Information Protocol Next Generation (RIPng)	Official
524	TCP	UDP	NetWare Core Protocol (NCP) is used for a variety things such as access to primary NetWare server resources, Time Synchronization, etc.	Official
525		UDP	Timed, Timeserver	Official
530	TCP	UDP	Remote procedure call (RPC)	Official
531	TCP	UDP	AOL Instant Messenger	Unofficial
532	TCP		netnews[11]	Official
533		UDP	netwall, For Emergency Broadcasts	Official
540	TCP		Unix-to-Unix Copy Protocol (UUCP)	Official

542	TCP	UDP	commerce (Commerce Applications)	Official
543	TCP		klogin, Kerberos login	Official
544	TCP		kshell, Kerberos Remote shell	Official
545	TCP		OSIsoft PI (VMS), OSISoft PI Server Client Access	Unofficial
546	TCP	UDP	DHCPv6 client	Official
547	TCP	UDP	DHCPv6 server	Official
548	TCP		Apple Filing Protocol (AFP) over TCP[11]	Official
550	TCP	UDP	new-rwho, new-who[79]	Official
554	TCP	UDP	Real Time Streaming Protocol (RTSP)[11]	Official
556	TCP		Remotefs, RFS, rfs_server	Official
560		UDP	rmonitor, Remote Monitor	Official
561		UDP	monitor	Official
563	TCP	UDP	NNTP over TLS/SSL (NNTPS)	Official
564	TCP		9P (Plan 9)	Unofficial
585	N/A	N/A	De-registered (with recommendation to use port 993 instead)[5]	Official
585	TCP	?	Legacy use of Internet Message Access Protocol over TLS/SSL (IMAPS)[80]	Unofficial
587	TCP		email message submission[81] (SMTP)	Official
591	TCP		FileMaker 6.0 (and later) Web Sharing (HTTP Alternate, also see port 80)	Official
593	TCP	UDP	HTTP RPC Ep Map, Remote procedure call over Hypertext Transfer Protocol, often used by Distributed Component Object Model services and Microsoft Exchange Server	Official
601	TCP		Reliable Syslog Service — used for system logging	Official
604	TCP		TUNNEL profile,[82] a protocol for BEEP peers to form an application layer tunnel	Official
623		UDP	ASF Remote Management and Control Protocol (ASF-RMCP) & IPMI Remote Management Protocol	Official
625	TCP		Open Directory Proxy (ODProxy)[11]	Unofficial
631	TCP	UDP	Internet Printing Protocol (IPP)[11]	Official
631	TCP	UDP	Common Unix Printing System (CUPS) administration console (extension to IPP)	Unofficial
635	TCP	UDP	RLZ DBase	Official
636	TCP	UDP	Lightweight Directory Access Protocol over TLS/SSL (LDAPS)[11]	Official
639	TCP	UDP	MSDP, Multicast Source Discovery Protocol	Official
641	TCP	UDP	SupportSoft Nexus Remote Command (control/listening), a proxy gateway connecting remote control traffic	Official
643	TCP	UDP	SANity	Official
646	TCP	UDP	Label Distribution Protocol (LDP), a routing protocol used in MPLS networks	Official
647	TCP		DHCP Failover protocol[83]	Official
648	TCP		Registry Registrar Protocol (RRP)[84]	Official

651	TCP	UDP	IEEE-MMS	Official
653	TCP	UDP	SupportSoft Nexus Remote Command (data), a proxy gateway connecting remote control traffic	Official
654	TCP		Media Management System (MMS) Media Management Protocol (MMP)[85]	Official
655	TCP	UDP	Tinc VPN daemon	Official
657	TCP	UDP	IBM RMC (Remote monitoring and Control) protocol, used by System p5 AIX Integrated Virtualization Manager (IVM)[86] and Hardware Management Console to connect managed logical partitions (LPAR) to enable dynamic partition reconfiguration	Official
660	TCP		Mac OS X Server administration,[5] version 10.4 and earlier[11]	Official
666	TCP	UDP	Doom, first online first-person shooter	Official
666	TCP		airserv-ng, aircrack-ng's server for remote-controlling wireless devices	Unofficial
674	TCP		Application Configuration Access Protocol (ACAP)	Official
688	TCP	UDP	REALM-RUSD (ApplianceWare Server Appliance Management Protocol)	Official
690	TCP	UDP	Velneo Application Transfer Protocol (VATP)	Official
691	TCP		MS Exchange Routing	Official
694	TCP	UDP	Linux-HA high-availability heartbeat	Official
695	TCP		IEEE Media Management System over SSL (IEEE-MMS-SSL)[87]	Official
698		UDP	Optimized Link State Routing (OLSR)	Official
700	TCP		Extensible Provisioning Protocol (EPP), a protocol for communication between domain name registries and registrars (RFC 5734)	Official
701	TCP		Link Management Protocol (LMP),[88] a protocol that runs between a pair of nodes and is used to manage traffic engineering (TE) links	Official
702	TCP		IRIS[89][90] (Internet Registry Information Service) over BEEP (Blocks Extensible Exchange Protocol)[91] (RFC 3983)	Official
706	TCP		Secure Internet Live Conferencing (SILC)	Official
711	TCP		Cisco Tag Distribution Protocol[92][93][94]—being replaced by the MPLS Label Distribution Protocol[95]	Official
712	TCP		Topology Broadcast based on Reverse-Path Forwarding routing protocol (TBRPF; RFC 3684)	Official
749	TCP	UDP	Kerberos (protocol) administration[11]	Official
750		UDP	kerberos-iv, Kerberos version IV	Official
751	TCP	UDP	kerberos_master, Kerberos authentication	Unofficial
752		UDP	passwd_server, Kerberos password (kpasswd) server	Unofficial
753	TCP		Reverse Routing Header (RRH)[96]	Official
753		UDP	Reverse Routing Header (RRH)	Official
753		UDP	userreg_server, Kerberos userreg server	Unofficial
754	TCP		tell send	Official
754	TCP		krb5_prop, Kerberos v5 slave propagation	Unofficial

754		UDP	tell send	Official
760	TCP	UDP	krbupdate [kreg], Kerberos registration	Unofficial
782	TCP		Conserver serial-console management server	Unofficial
783	TCP		SpamAssassin spamd daemon	Unofficial
800	TCP	UDP	mdbs-daemon	Official
808	TCP		Microsoft Net.TCP Port Sharing Service	Unofficial
829	TCP		Certificate Management Protocol[97]	Unofficial
830	TCP	UDP	NETCONF over SSH	Official
831	TCP	UDP	NETCONF over BEEP	Official
832	TCP	UDP	NETCONF for SOAP over HTTPS	Official
833	TCP	UDP	NETCONF for SOAP over BEEP	Official
843	TCP		Adobe Flash[98]	Unofficial
847	TCP		DHCP Failover protocol	Official
848	TCP	UDP	Group Domain Of Interpretation (GDOI) protocol	Official
853	TCP	UDP	DNS over TLS (RFC 7858)	Official
860	TCP		iSCSI (RFC 3720)	Official
861	TCP	UDP	OWAMP control (RFC 4656)	Official
862	TCP	UDP	TWAMP control (RFC 5357)	Official
873	TCP		rsync file synchronization protocol	Official
888	TCP		cddbp, CD DataBase (CDDB) protocol (CDDBP)	Unofficial
888	TCP		IBM Endpoint Manager Remote Control	Unofficial
897	TCP	UDP	Brocade SMI-S RPC	Unofficial
898	TCP	UDP	Brocade SMI-S RPC SSL	Unofficial
902	TCP	UDP	VMware ESXi[99][100]	Unofficial
903	TCP		VMware ESXi[99][100]	Unofficial
914-988			Unassigned	Official
944		UDP	Network File System Service	Unofficial
953	TCP		BIND remote name daemon control (RNDC)[101][102]	Unofficial
981	TCP		Remote HTTPS management for firewall devices running embedded Check Point VPN-1 software[103]	Unofficial
987	TCP		Microsoft Windows SBS SharePoint	Unofficial
989	TCP	UDP	FTPS Protocol (data), FTP over TLS/SSL	Official
990	TCP	UDP	FTPS Protocol (control), FTP over TLS/SSL	Official
991	TCP	UDP	Netnews Administration System (NAS)[104]	Official
992	TCP	UDP	Telnet protocol over TLS/SSL	Official
993	TCP		Internet Message Access Protocol over TLS/SSL (IMAPS)[11]	Official
994	TCP	UDP	Reserved	Official
994	TCP	UDP	Internet Relay Chat over TLS/SSL (IRCS)[74]	Unofficial
995	TCP		Post Office Protocol 3 over TLS/SSL (POP3S)[11]	Official
999	TCP		ScimoreDB Database System[105]	Unofficial

1010	TCP		ThinLinc web-based administration interface[106]	Unofficial
1023	TCP	UDP	Reserved[5]	Official

Registered ports

The range of port numbers from 1024 to 49151 are the registered ports. They are assigned by IANA for specific service upon application by a requesting entity.[5] On most systems, registered ports can be used without superuser privileges.

Registered ports

Port	TCP	UDP	Description	Status
1024			Reserved	Official
1027	TCP		Reserved	Official
1027		UDP	Native IPv6 behind IPv4-to-IPv4 NAT Customer Premises Equipment (6a44)[107]	Official
1028			Deprecated	Official
1029			Microsoft DCOM services	Official
1058	TCP	UDP	nim, IBM AIX Network Installation Manager (NIM)	Official
1059	TCP	UDP	nimreg, IBM AIX Network Installation Manager (NIM)	Official
1080	TCP	UDP	SOCKS proxy	Official
1085	TCP	UDP	WebObjects[11]	Official
1098	TCP	UDP	rmiactivation, Java remote method invocation (RMI) activation	Official
1099	TCP	UDP	rmiregistry, Java remote method invocation (RMI) registry	Official
1109			Reserved – IANA	Official
1109	TCP		Kerberos Post Office Protocol (KPOP)	Unofficial
1119	TCP	UDP	Battle.net chat/game protocol, used by Blizzard's games[108]	Official
1167	TCP SCTP	UDP	Cisco IP SLA (Service Assurance Agent)	Official
1194	TCP	UDP	OpenVPN	Official
1198	TCP	UDP	The cajo project Free dynamic transparent distributed computing in Java	Official
1214	TCP	UDP	Kazaa	Official
1220	TCP	UDP	QuickTime Streaming Server administration[11]	Official
1234	TCP	UDP	Infoseek search agent	Official
1234		UDP	VLC media player default port for UDP/RTP stream	Unofficial
1241	TCP	UDP	Nessus Security Scanner	Official
1270	TCP	UDP	Microsoft System Center Operations Manager (SCOM) (formerly Microsoft Operations Manager (MOM)) agent	Official
1293	TCP	UDP	Internet Protocol Security (IPSec)	Official
1311	TCP	UDP	Windows `RxMon.exe`	Official
1311	TCP		Dell OpenManage HTTPS [109]	Unofficial
1314	?	?	Festival Speech Synthesis System server[110]	Unofficial
1337	TCP		neo4j-shell	Unofficial
1337	TCP		WASTE Encrypted File Sharing Program	Unofficial
1341	TCP	UDP	Qubes (Manufacturing Execution System)	Official
1344	TCP	UDP	Internet Content Adaptation Protocol	Official
1352	TCP	UDP	IBM Lotus Notes/Domino (RPC) protocol	Official
1360	TCP	UDP	Mimer SQL	Official
1414	TCP	UDP	IBM WebSphere MQ (formerly known as MQSeries)	Official
1417	TCP	UDP	Timbuktu Service 1 Port	Official
1418	TCP	UDP	Timbuktu Service 2 Port	Official

1419	TCP	UDP	Timbuktu Service 3 Port	Official
1420	TCP	UDP	Timbuktu Service 4 Port	Official
1431	TCP		Reverse Gossip Transport Protocol (RGTP), used to access a General-purpose Reverse-Ordered Gossip Gathering System (GROGGS) bulletin board, such as that implemented on the Cambridge University's Phoenix system	Official
1433	TCP	UDP	Microsoft SQL Server database management system (MSSQL) server	Official
1434	TCP	UDP	Microsoft SQL Server database management system (MSSQL) monitor	Official
1492	TCP		*Sid Meier's CivNet*, a multiplayer remake of the original *Sid Meier's Civilization* game	Unofficial
1494	TCP	UDP	Citrix Independent Computing Architecture (ICA)[111]	Unofficial
1500	TCP		IBM Tivoli Storage Manager server[112]	Unofficial
1501	TCP		IBM Tivoli Storage Manager client scheduler[112]	Unofficial
1503	TCP	UDP	Windows Live Messenger (Whiteboard and Application Sharing)[113]	Unofficial
1512	TCP	UDP	Microsoft's Windows Internet Name Service (WINS)	Official
1513	TCP	UDP	Garena game client	Unofficial
1521	TCP	UDP	nCUBE License Manager	Official
1521	TCP		Oracle database default listener, in future releases[114] official port 2483 (TCP/IP) and 2484 (TCP/IP with SSL)	Unofficial
1524	TCP	UDP	ingreslock, ingres	Official
1527	TCP	UDP	Oracle Net Services, formerly known as SQL*Net[115]	Official
1527	TCP		Apache Derby Network Server[116]	Unofficial
1533	TCP	UDP	IBM Sametime Virtual Places Chat	Official
1534		UDP	Eclipse Target Communication Framework (TCF) agent discovery[117]	Unofficial
1547	TCP	UDP	Laplink	Official
1550	TCP		Gadu-Gadu (direct client-to-client)	Unofficial
1581	TCP	UDP	MIL STD 2045-47001 VMF	Official
1581	TCP		IBM Tivoli Storage Manager web client[112]	Unofficial
1582–1583	TCP		IBM Tivoli Storage Manager server web interface[112]	Unofficial
1583	?	?	Pervasive PSQL[118]	Unofficial
1589	TCP	UDP	Cisco VLAN Query Protocol (VQP)	Official
1604	TCP		DarkComet remote administration tool (RAT)	Unofficial
1626	TCP		iSketch[119]	Unofficial
1627	TCP		iSketch[119]	Unofficial
1628	TCP	UDP	LonTalk normal	Official
1629	TCP	UDP	LonTalk urgent	Official
1645		UDP	Early deployment of RADIUS before RFC standardization was done using UDP port number 1645. Enabled for compatibility reasons by	Unofficial

			default on Cisco and Juniper Networks RADIUS servers.[120] Official port is 1812. TCP port 1645 **MUST NOT** be used.[121]	
1646		UDP	Old `radacct` port, RADIUS accounting protocol. Enabled for compatibility reasons by default on Cisco and Juniper Networks RADIUS servers. Official port is 1813. TCP port 1646 **MUST NOT** be used.[121]	Unofficial
1666	TCP		Perforce[122]	Unofficial
1677	TCP	UDP	Novell GroupWise clients in client/server access mode	Official
1688	TCP		Microsoft Key Management Service (KMS) for Windows Activation[123]	Unofficial
1701	TCP	UDP	Layer 2 Forwarding Protocol (L2F)	Official
1701	TCP	UDP	Layer 2 Tunneling Protocol (L2TP)[11]	Official
1707	TCP	UDP	Windward Studios games (vdmplay)	Official
1707		UDP	L2TP/IPsec, for establish an initial connection[124]	Unofficial
1716		UDP	America's Army, a massively multiplayer online game (MMO)[125]	Unofficial
1719	TCP	UDP	H.323 registration and alternate communication	Official
1720	TCP	UDP	H.323 call signaling	Official
1723	TCP	UDP	Point-to-Point Tunneling Protocol (PPTP)[11]	Official
1755	TCP	UDP	Microsoft Media Services (MMS, `ms-streaming`)	Official
1761	TCP	UDP	Novell ZENworks[126][127]	Unofficial
1783			Decomissioned [*sic*] Port 04/14/00, ms	Official
1801	TCP	UDP	Microsoft Message Queuing	Official
1812	TCP	UDP	RADIUS authentication protocol, `radius`	Official
1813	TCP	UDP	RADIUS accounting protocol, `radius-acct`	Official
1863	TCP	UDP	Microsoft Notification Protocol (MSNP), used by the Microsoft Messenger service and a number of instant messaging Messenger clients	Official
1880	?	?	Node-RED[128]	Unofficial
1883	TCP	UDP	MQTT (formerly MQ Telemetry Transport)	Official
1900	TCP	UDP	Simple Service Discovery Protocol (SSDP),[11] discovery of UPnP devices	Official
1935	TCP	UDP	Macromedia Flash Communications Server MX, the precursor to Adobe Flash Media Server before Macromedia's acquisition by Adobe on December 3, 2005	Official
1935	TCP	UDP	Real Time Messaging Protocol (RTMP), primarily used in Adobe Flash[129]	Unofficial
1967		UDP	Cisco IOS IP Service Level Agreements (IP SLAs) Control Protocol	Unofficial
1970	TCP	UDP	Netop Remote Control	Official
1972	TCP	UDP	InterSystems Caché	Official
1984	TCP	UDP	Big Brother	Official
1985	TCP	UDP	Cisco Hot Standby Router Protocol (HSRP)	Official
1998	TCP	UDP	Cisco X.25 over TCP (XOT) service	Official
2000	TCP	UDP	Cisco Skinny Client Control Protocol (SCCP)	Official

2010	TCP		Artemis: Spaceship Bridge Simulator[130]	Unofficial
2033	TCP	UDP	Civilization IV multiplayer[131]	Unofficial
2049	TCP SCTP	UDP	Network File System (NFS)[11]	Official
2056	TCP	UDP	Civilization IV multiplayer[131]	Unofficial
2080	TCP	UDP	Autodesk NLM (FLEXlm)	Official
2082	TCP		cPanel default[132]	Unofficial
2083	TCP	UDP	Secure RADIUS Service (radsec)	Official
2083	TCP		cPanel default SSL[132]	Unofficial
2086	TCP	UDP	GNUnet	Official
2086	TCP		WebHost Manager default[132]	Unofficial
2087	TCP		WebHost Manager default SSL[132]	Unofficial
2095	TCP		cPanel default web mail[132]	Official
2096	TCP		cPanel default SSL web mail[132]	Unofficial
2100	TCP		Warzone 2100 multiplayer	Unofficial
2101	TCP		Networked Transport of RTCM via Internet Protocol (NTRIP)	Unofficial
2102	TCP	UDP	Zephyr Notification Service server	Official
2103	TCP	UDP	Zephyr Notification Service `serv-hm` connection	Official
2104	TCP	UDP	Zephyr Notification Service hostmanager	Official
2123	TCP	UDP	GTP control messages (GTP-C)	Official
2142	TCP	UDP	TDMoIP (TDM over IP)	Official
2152	TCP	UDP	GTP user data messages (GTP-U)	Official
2159	TCP	UDP	GDB remote debug port	Official
2181	TCP	UDP	EForward-document transport system	Official
2181	TCP		Apache ZooKeeper default client port	Unofficial
2195	TCP		Apple Push Notification Service[11][133]	Unofficial
2196	TCP		Apple Push Notification Service, feedback service[11][133]	Unofficial
2210	TCP	UDP	NOAAPORT Broadcast Network	Official
2211	TCP	UDP	EMWIN	Official
2221	TCP		ESET anti-virus updates[134]	Unofficial
2222	TCP	UDP	EtherNet/IP implicit messaging for IO data	Official
2222	?	?	DirectAdmin Access[135]	Unofficial
2222–2226	TCP		ESET Remote administrator[134]	Official
2261	TCP	UDP	CoMotion master	Official
2262	TCP	UDP	CoMotion backup	Official
2266	TCP	UDP	M-Files	Official
2302		UDP	ArmA multiplayer	Unofficial
2302		UDP	Halo: Combat Evolved multiplayer host[136]	Unofficial
2303		UDP	ArmA multiplayer *(default port for game +1)*	Unofficial
2302		UDP		Unofficial

			Halo: Combat Evolved multiplayer listener[136]	
2305		UDP	ArmA multiplayer *(default port for game +3)*	Unofficial
2351	TCP		AIM game LAN network port	Unofficial
2368	TCP		Ghost (blogging platform)[137]	Unofficial
2369	TCP		Default for BMC Control-M/Server Configuration Agent	Unofficial
2370	TCP		Default for BMC Control-M/Server, to allow the Control-M/Enterprise Manager to connect to the Control-M/Server	Unofficial
2375	TCP		Docker REST API (plain)	Official
2375		UDP	Reserved	Official
2376	TCP		Docker REST API (SSL)	Official
2376		UDP	Reserved	Official
2379	TCP		CoreOS etcd client communication	Official
2379		UDP	Reserved	Official
2379	TCP		KGS Go Server[138]	Unofficial
2380	TCP		CoreOS etcd server communication	Official
2380		UDP	Reserved	Official
2399	TCP	UDP	FileMaker Data Access Layer (ODBC/JDBC)	Official
2401	TCP	UDP	CVS version control system password-based server	Official
2404	TCP	UDP	IEC 60870-5-104, used to send electric power telecontrol messages between two systems via directly connected data circuits	Official
2424	TCP		OrientDB database listening for binary client connections[139]	Unofficial
2427	TCP	UDP	Media Gateway Control Protocol (MGCP) media gateway	Official
2447	TCP	UDP	ovwdb—OpenView Network Node Manager (NNM) daemon	Official
2480	TCP		OrientDB database listening for HTTP client connections[139]	Unofficial
2483	TCP	UDP	Oracle database listening for insecure client connections to the listener, replaces port 1521	Official
2484	TCP	UDP	Oracle database listening for SSL client connections to the listener	Official
2535	TCP	UDP	Multicast Address Dynamic Client Allocation Protocol (MADCAP).[140] All standard messages are UDP datagrams.[141]	Official
2541	TCP	UDP	LonTalk/IP	Official
2546–2548	TCP	UDP	EVault data protection services	Official
2593	TCP	UDP	Ultima Online servers	Unofficial
2598	TCP		Citrix Independent Computing Architecture (ICA) with Session Reliability; port 1494 without session reliability[111]	Unofficial
2599	TCP	UDP	Ultima Online servers	Unofficial
2638	TCP	UDP	SQL Anywhere database server[142][143]	Official
2703	TCP		Vipul's Razor distributed, collaborative, spam-detection-and-filtering network[144]	Unofficial
2710	TCP	UDP	XBT Tracker.[145] UDP tracker extension is considered experimental.[146]	Unofficial
2727	TCP	UDP	Media Gateway Control Protocol (MGCP) media gateway controller (call agent)	Official

2809	TCP	UDP	corbaloc:iiop URL, per the CORBA 3.0.3 specification	Official
2811	TCP	UDP	gsi ftp, per the GridFTP specification	Official
2827	TCP		I2P BOB Bridge[147]	Unofficial
2944	TCP	UDP	Megaco text H.248	Official
2945	TCP	UDP	Megaco binary (ASN.1) H.248	Official
2947	TCP	UDP	gpsd, GPS daemon	Official
2948	TCP	UDP	WAP push Multimedia Messaging Service (MMS)	Official
2949	TCP	UDP	WAP push secure (MMS)	Official
2967	TCP	UDP	Symantec System Center agent (SSC-AGENT)	Official
3000	TCP		Cloud9 IDE server	Unofficial
3000	TCP		Ruby on Rails development default[148]	Unofficial
3000	TCP		Meteor development default[149]	Unofficial
3000	TCP	UDP	Resilio Sync,[150] spun from BitTorrent Sync.	Unofficial
3000		UDP	Distributed Interactive Simulation (DIS)	Unofficial
3004	TCP		iSync[11]	Unofficial
3020	TCP	UDP	Common Internet File System (CIFS). See also port 445 for Server Message Block (SMB), a dialect of CIFS.	Official
3050	TCP	UDP	gds-db (Interbase/Firebird databases)	Official
3052	TCP	UDP	APC PowerChute Network[5]	Official
3074	TCP	UDP	Xbox LIVE and Games for Windows – Live	Official
3101	TCP		BlackBerry Enterprise Server communication protocol[151]	Unofficial
3128	TCP	?	Squid caching web proxy[152]	Unofficial
3225	TCP	UDP	Fibre Channel over IP (FCIP)	Official
3233	TCP	UDP	WhiskerControl research control protocol	Official
3260	TCP	UDP	iSCSI	Official
3268	TCP	UDP	msft-gc, Microsoft Global Catalog (LDAP service which contains data from Active Directory forests)	Official
3269	TCP	UDP	msft-gc-ssl, Microsoft Global Catalog over SSL (similar to port 3268, LDAP over SSL)	Official
3283	TCP	UDP	*Net Assistant*,[11] a predecessor to *Apple Remote Desktop*	Official
3283	TCP	UDP	Apple Remote Desktop 2.0 or later[11]	Unofficial
3290		UDP	Virtual Air Traffic Simulation (VATSIM) network voice communication	Unofficial
3305	TCP	UDP	Odette File Transfer Protocol (OFTP)	Official
3306	TCP	UDP	MySQL database system[11]	Official
3313	TCP		Verisys file integrity monitoring software	Unofficial
3316	TCP		AzimuthVMS database port for the CCTV recording software AzimuthVMS	Unofficial
3323	TCP	UDP	DECE GEODI Server	Unofficial
3332	UDP		Thundercloud DataPath Overlay Control	Unofficial
3333	TCP		Eggdrop, an IRC bot default port[153]	Unofficial
3333	TCP		Network Caller ID server	Unofficial

3333	TCP		CruiseControl.rb[154]	Unofficial
3351	?	?	Pervasive PSQL[118]	Unofficial
3386	TCP	UDP	GTP' 3GPP GSM/UMTS CDR logging protocol	Official
3389	TCP	UDP	Microsoft Terminal Server (RDP) officially registered as Windows Based Terminal (WBT)[155]	Official
3396	TCP	UDP	Novell NDPS Printer Agent	Official
3412	TCP	UDP	xmlBlaster	Official
3455	TCP	UDP	Resource Reservation Protocol (RSVP)	Official
3423	TCP		Xware xTrm Communication Protocol	Official
3424	TCP		Xware xTrm Communication Protocol over SSL	Official
3478	TCP	UDP	STUN, a protocol for NAT traversal[156]	Official
3478	TCP	UDP	TURN, a protocol for NAT traversal[157] (extension to STUN)	Official
3479	TCP	UDP	PlayStation Network[158]	Unofficial
3480	TCP	UDP	PlayStation Network[158]	Unofficial
3483		UDP	Slim Devices discovery protocol	Official
3483	TCP		Slim Devices SlimProto protocol	Official
3493	TCP	UDP	Network UPS Tools (NUT)	Official
3516	TCP	UDP	Smartcard Port	Official
3527		UDP	Microsoft Message Queuing	Official
3535	TCP		SMTP alternate[159]	Unofficial
3544		UDP	Teredo tunneling	Official
3562	TCP	UDP	SDBProxy Simple DataBase middle-ware and proxy	Official
3605		UDP	ComCam IO Port	Official
3606	TCP	UDP	Splitlock Server	Official
3632	TCP		Distcc, distributed compiler[11]	Official
3644	TCP		Evidian, ssowatch	Official
3645	TCP	UDP	Cyc	Official
3659	TCP	UDP	Apple SASL, used by Mac OS X Server Password Server[11]	Official
3659		UDP	Battlefield 4	Unofficial
3667	TCP	UDP	Information Exchange	Official
3689	TCP		Digital Audio Access Protocol (DAAP), used by Apple's iTunes and AirPlay[11]	Official
3690	TCP	UDP	Subversion (SVN)[11] version control system	Official
3702	TCP	UDP	Web Services Dynamic Discovery (WS-Discovery), used by various components of Windows Vista and later	Official
3724	TCP	UDP	Some Blizzard games[108]	Official
3724	TCP		Club Penguin Disney online game for kids	Unofficial
3725	TCP	UDP	Netia NA-ER Port	Official
3768	TCP	UDP	RBLcheckd server daemon	Official
3784		UDP	Bidirectional Forwarding Detection (BFD)for IPv4 and IPv6 (Single Hop) (RFC 5881)	Official

3785		UDP	VoIP program used by Ventrilo	Unofficial
3799		UDP	RADIUS change of authorization	Official
3800	TCP		HGG programs	Unofficial
3804	TCP	UDP	Harman Professional HiQnet protocol	Official
3825	TCP		RedSeal Networks client/server connection	Unofficial
3826	TCP	UDP	WarMUX game server	Official
3826	TCP		RedSeal Networks client/server connection	Unofficial
3835	TCP		RedSeal Networks client/server connection	Unofficial
3830	TCP	UDP	System Management Agent, developed and used by Cerner to monitor and manage solutions	Official
3856	TCP	UDP	ERP Server Application used by F10 Software	Unofficial
3880	TCP	UDP	IGRS	Official
3868	TCP	SCTP	Diameter base protocol (RFC 3588)	Official
3872	TCP		Oracle Enterprise Manager Remote Agent	Official
3899	TCP		Remote Administrator	Unofficial
3900	TCP		udt_os, IBM UniData UDT OS[160]	Official
3945	TCP	UDP	EMCADS service, a Giritech product used by G/On	Official
3960		UDP	Warframe Online	Unofficial
3962		UDP	Warframe Online	Unofficial
3978	TCP	UDP	OpenTTD game (masterserver and content service)	Unofficial
3979	TCP	UDP	OpenTTD game	Unofficial
3999	TCP	UDP	Norman distributed scanning service	Official
4000	TCP	UDP	Diablo II game	Unofficial
4001	TCP		Microsoft Ants game	Unofficial
4001	TCP		CoreOS etcd client communication	Unofficial
4007	TCP		PrintBuzzer printer monitoring socket server	Unofficial
4018	TCP	UDP	Protocol information and warnings	Official
4035	TCP	TCP	IBM Rational Developer for System z Remote System Explorer Daemon	Unofficial
4045	TCP	UDP	Solaris lockd NFS lock daemon/manager	Unofficial
4050	TCP		Mud Master Chat protocol (MMCP) - Peer-to-peer communications between MUD clients.[161]	Unofficial
4069		UDP	Minger Email Address Verification Protocol[162]	Official
4089	TCP	UDP	OpenCORE Remote Control Service	Official
4090	TCP	UDP	Kerio	Official
4093	TCP	UDP	PxPlus Client server interface ProvideX	Official
4096	TCP	UDP	Ascom Timeplex Bridge Relay Element (BRE)	Official
4105	TCP	UDP	Shofar (ShofarNexus)	Official
4111	TCP		Xgrid[11]	Official
4116	TCP	UDP	Smartcard-TLS	Official
4117	TCP		WatchGuard System Manager	Unofficial
4125	TCP		Microsoft Remote Web Workplace administration	Unofficial

4172	TCP	UDP	Teradici PCoIP	Official
4190	TCP		ManageSieve[163]	Official
4198	TCP	UDP	Couch Potato Android app[164]	Unofficial
4201	TCP		TinyMUD and various derivatives	Unofficial
4222	TCP		NATS server default port [165]	Unofficial
4226	TCP	UDP	Aleph One, a computer game	Unofficial
4224	TCP		Cisco Audio Session Tunneling	Unofficial
4242	TCP		Orthanc – DICOM server[166]	Unofficial
4242	TCP		Quassel distributed IRC client	Unofficial
4243	TCP		Docker implementations, redistributions, and setups default[167][168][169]	Unofficial
4243	TCP		CrashPlan	Unofficial
4244	TCP	UDP	Viber[170]	Unofficial
4303	TCP	UDP	Simple Railroad Command Protocol (SRCP)	Official
4307	TCP		TrueConf Client - TrueConf Server media data exchange[171]	Official
4321	TCP		Referral Whois (RWhois) Protocol[172]	Official
4323		UDP	Lincoln Electric's ArcLink/XT	Unofficial
4352	TCP		PJLink, by JBMIA for controlling projectors via LAN connections	Official
4443	TCP	UDP	Individual Zone Solutions P/L Remote Mail Checking Protocol	Official
4444	TCP	UDP	Oracle WebCenter Content: Content Server—Intradoc Socket port. (formerly known as Oracle Universal Content Management). Port though often changed during installation Metasploit: Default listener port	Unofficial
4444	TCP	UDP	Xvfb X server virtual frame buffer service	Unofficial
4444–4445	TCP		I2P HTTP/S proxy	Unofficial
4486	TCP	UDP	Integrated Client Message Service (ICMS)	Official
4488	TCP	UDP	Apple Wide Area Connectivity Service, used by Back to My Mac[11]	Official
4500		UDP	IPSec NAT Traversal[11] (RFC 3947, RFC 4306)	Official
4502–4534	TCP		Microsoft Silverlight connectable ports under non-elevated trust	Official
4505–4506	TCP		Salt master	Unofficial
4534		UDP	Armagetron Advanced server default	Unofficial
4554	TCP		Default Wesk[173] Self-Hosting Port	Unofficial
4560	TCP		default Log4j socketappender port	Unofficial
4567	TCP		Sinatra default server port in development mode (HTTP)	Unofficial
4569		UDP	Inter-Asterisk eXchange (IAX2)	Official
4604	TCP		Identity Registration Protocol	Official
4605	TCP		Direct End to End Secure Chat Protocol	Official
4610–4640	TCP		QualiSystems TestShell Suite Services	Unofficial
4662	TCP	UDP	OrbitNet Message Service	Official

4662	TCP		Default for older versions of eMule[174]	Unofficial
4664	TCP		Google Desktop Search	Unofficial
4672		UDP	Default for older versions of eMule[174]	Unofficial
4711	TCP		eMule optional web interface[174]	Unofficial
4711	TCP		McAfee Web Gateway 7 GUI HTTP default	Unofficial
4712	TCP		McAfee Web Gateway 7 GUI HTTPS default	Unofficial
4713	TCP		PulseAudio sound server	Unofficial
4728	TCP		Computer Associates Desktop and Server Management (DMP)/Port Multiplexer[175]	Official
4729		UDP	GSMTAP[5][176]	Official
4730	TCP	UDP	Gearman's job server	Official
4732		UDP	Digital Airways's OHM server's commands to mobile devices (used mainly for binary SMS)	Official
4739	TCP	UDP	IP Flow Information Export	Official
4747	TCP		Apprentice	Unofficial
4750	TCP		BladeLogic Agent	Unofficial
4753	TCP	UDP	SIMON (service and discovery)	Official
4789		UDP	Virtual eXtensible Local Area Network (VXLAN)[177]	Official
4840	TCP	UDP	OPC UA TCP Protocol for OPC Unified Architecture from OPC Foundation	Official
4843	TCP	UDP	OPC UA TCP Protocol over TLS/SSL for OPC Unified Architecture from OPC Foundation	Official
4847	TCP	UDP	Web Fresh Communication, Quadrion Software & Odorless Entertainment	Official
4848	TCP		Java, Glassfish Application Server administration default	Unofficial
4894	TCP	UDP	LysKOM Protocol A	Official
4899	TCP	UDP	Radmin remote administration tool	Official
4949	TCP		Munin Resource Monitoring Tool	Official
4950	TCP	UDP	Cylon Controls UC32 Communications Port	Official
4982	TCP	UDP	Solar Data Log (JK client app for PV solar inverters)	Unofficial
4993	TCP	UDP	Home FTP Server web Interface Default Port	Unofficial
5000	TCP		commplex-main	Official
5000	TCP		UPnP—Windows network device interoperability	Unofficial
5000	TCP	UDP	VTun, VPN Software	Unofficial
5000		UDP	FlightGear multiplayer[178]	Unofficial
5000	TCP		Synology Inc. Management Console, File Station, Audio Station	Unofficial
5000	TCP		Flask Development Webserver	Unofficial
5000	TCP		Heroku console access	Official
5000	TCP		AT&T U-verse public, educational, and government access (PEG) streaming over HTTP[179]	Unofficial
5001	TCP		commplex-link	Official
5001	TCP		Slingbox and Slingplayer	Unofficial

5001	TCP	UDP	Iperf (Tool for measuring TCP and UDP bandwidth performance)	Unofficial
5001	TCP		Synology Inc. Secured Management Console, File Station, Audio Station	Unofficial
5002	TCP		ASSA ARX access control system[180]	Unofficial
5002		UDP	Drobo Dashboard[181]	Unofficial
5003	TCP	UDP	FileMaker – name binding and transport[11]	Official
5004	TCP DCCP	UDP	Real-time Transport Protocol media data (RTP) (RFC 3551, RFC 4571)	Official
5005	TCP DCCP	UDP	Real-time Transport Protocol control protocol (RTCP) (RFC 3551, RFC 4571)	Official
5010	TCP	UDP	Registered to: TelePath (the IBM FlowMark workflow-management system messaging platform)[182] The TCP port is now used for: IBM WebSphere MQ Workflow	Official
5011	TCP	UDP	TelePath (the IBM FlowMark workflow-management system messaging platform)[182]	Official
5029	TCP		Sonic Robo Blast 2 : Multiplayer[183]	Unofficial
5031	TCP	UDP	AVM CAPI-over-TCP (ISDN over Ethernet tunneling)	Unofficial
5037	TCP		Android ADB server	Unofficial
5048	TCP		Texai Message Service	Official
5050	TCP		Yahoo! Messenger	Unofficial
5051	TCP		ita-agent Symantec Intruder Alert[184]	Official
5060	TCP	UDP	Session Initiation Protocol (SIP)[11]	Official
5061	TCP		Session Initiation Protocol (SIP) over TLS	Official
5062	TCP	UDP	Localisation access	Official
5064	TCP	UDP	EPICS Channel Access Server[185]	Official
5065	TCP	UDP	EPICS Channel Access Repeater Beacon[186]	Official
5070	TCP		Binary Floor Control Protocol (BFCP)[187]	Unofficial
5082	TCP	UDP	Qpur Communication Protocol	Official
5083	TCP	UDP	Qpur File Protocol	Official
5084	TCP	UDP	EPCglobal Low Level Reader Protocol (LLRP)	Official
5085	TCP	UDP	EPCglobal Low Level Reader Protocol (LLRP) over TLS	Official
5093		UDP	SafeNet, Inc Sentinel LM, Sentinel RMS, License Manager, client-to-server	Official
5099	TCP	UDP	SafeNet, Inc Sentinel LM, Sentinel RMS, License Manager, server-to-server	Official
5104	TCP		IBM Tivoli Framework NetCOOL/Impact[188] HTTP Service	Unofficial
5106	TCP		A-Talk Common connection	Unofficial
5107	TCP		A-Talk Remote server connection	Unofficial
5108	TCP		VPOP3 Mail Server Webmail	Unofficial
5109	TCP	UDP	VPOP3 Mail Server Status	Unofficial
5121	TCP		Neverwinter Nights	Unofficial
5124	TCP	UDP	TorgaNET (Micronational Darknet)	Unofficial

5125	TCP	UDP	TorgaNET (Micronational Intelligence Darknet)	Unofficial
5150	TCP	UDP	ATMP Ascend Tunnel Management Protocol[189]	Official
5150	TCP	UDP	Malware Cerberus RAT	Unofficial
5151	TCP		ESRI SDE Instance	Official
5151		UDP	ESRI SDE Remote Start	Official
5154	TCP	UDP	BZFlag	Official
5172	TCP		PC over IP Endpoint Management[190]	Official
5176	TCP		ConsoleWorks default UI interface	Unofficial
5190	TCP		AOL Instant Messenger protocol[11]	Official
5198		UDP	EchoLink VoIP Amateur Radio Software (Voice)	Unofficial
5199		UDP	EchoLink VoIP Amateur Radio Software (Voice)	Unofficial
5200	TCP		EchoLink VoIP Amateur Radio Software (Information)	Unofficial
5201	TCP	UDP	Iperf3 (Tool for measuring TCP and UDP bandwidth performance)	Unofficial
5222	TCP		Extensible Messaging and Presence Protocol (XMPP) client connection[11][191][192]	Official
5223	TCP		Apple Push Notification Service[11][133]	Unofficial
5223	TCP		Extensible Messaging and Presence Protocol (XMPP) client connection over SSL	Unofficial
5228	TCP		HP Virtual Room Service	Official
5228	TCP		Google Play, Android Cloud to Device Messaging Service, Google Cloud Messaging	Unofficial
5242	TCP	UDP	Viber[170]	Unofficial
5243	TCP	UDP	Viber[170]	Unofficial
5246		UDP	Control And Provisioning of Wireless Access Points (CAPWAP) CAPWAP control[193]	Official
5247		UDP	Control And Provisioning of Wireless Access Points (CAPWAP) CAPWAP data[193]	Official
5269	TCP		Extensible Messaging and Presence Protocol (XMPP) server-to-server connection[11][191][192]	Official
5280	TCP		Extensible Messaging and Presence Protocol (XMPP) XEP-0124: Bidirectional-streams Over Synchronous HTTP (BOSH)	Official
5281	TCP		Undo License Manager	Official
5281	TCP		Extensible Messaging and Presence Protocol (XMPP)[194]	Unofficial
5298	TCP	UDP	Extensible Messaging and Presence Protocol (XMPP)[195]	Official
5310	TCP	UDP	Outlaws (1997 video game). Both UDP and TCP are reserved, but only UDP is used	Official
5349	TCP		STUN (TLS over TCP), a protocol for NAT traversal[156]	Official
5349	TCP		TURN (TLS over TCP), a protocol for NAT traversal[157]	Official
5351		UDP	NAT Port Mapping Protocol and Port Control Protocol—client-requested configuration for connections through network address translators and firewalls	Official
5353		UDP	Multicast DNS (mDNS)[11]	Official
5355	TCP	UDP	Link-Local Multicast Name Resolution (LLMNR), allows hosts to	Official

			perform name resolution for hosts on the same local link (only provided by Windows Vista and Server 2008)	
5357	TCP	UDP	Web Services for Devices (WSDAPI) (only provided by Windows Vista, Windows 7 and Server 2008)	Unofficial
5358	TCP	UDP	WSDAPI Applications to Use a Secure Channel (only provided by Windows Vista, Windows 7 and Server 2008)	Unofficial
5394		UDP	Kega Fusion, a Sega multi-console emulator[196][197]	Unofficial
5402	TCP	UDP	Multicast File Transfer Protocol (MFTP)[198]	Official
5405	TCP	UDP	NetSupport Manager	Official
5412	TCP	UDP	IBM Rational Synergy (Telelogic Synergy) (Continuus CM) Message Router	Official
5413	TCP	UDP	Wonderware SuiteLink service	Official
5417	TCP	UDP	SNS Agent	Official
5421	TCP	UDP	NetSupport Manager	Official
5432	TCP	UDP	PostgreSQL[11] database system	Official
5433	TCP		Bouwsoft file/webserver[199]	Unofficial
5445		UDP	Cisco Unified Video Advantage	Unofficial
5450	TCP		TiePie engineering data acquisition	Official
5450	TCP		OSIsoft PI Server Client Access	Unofficial
5450		UDP	TiePie engineering data acquisition (discovery)	Official
5454	TCP		OSIsoft PI Asset Framework 1.x Client Access	Unofficial
5455	TCP		OSIsoft PI Asset Framework 1.x Client Access	Unofficial
5457	TCP		OSIsoft PI Asset Framework 2.x Client Access	Unofficial
5458	TCP		OSIsoft PI Notifications Client Access	Unofficial
5459	TCP		OSIsoft PI Asset Framework 2.x Client Access	Unofficial
5463	TCP		OSIsoft PI Asset Based Analytics	Unofficial
5468	TCP		OSIsoft PI Event Driven Notifications Client Access	Unofficial
5480	TCP		VMware VAMI (Virtual Appliance Management Infrastructure)—used for initial setup of various administration settings on Virtual Appliances designed using the VAMI architecture.	Unofficial
5481	TCP		Schneider Electric's ClearSCADA (SCADA implementation for Windows) — used for client-to-server communication.[200]	Unofficial
5495	TCP		IBM Cognos TM1 Admin server	Unofficial
5498	TCP		Hotline tracker server connection	Unofficial
5499		UDP	Hotline tracker server discovery	Unofficial
5500	TCP		VNC remote desktop protocol—for incoming listening viewer, Hotline control connection	Unofficial
5501	TCP		Hotline file transfer connection	Unofficial
5517	TCP		Setiqueue Proxy server client for SETI@Home project	Unofficial
5550	TCP		Hewlett-Packard Data Protector	Unofficial
5554	TCP	UDP	Fastboot default wireless port	Unofficial
5555	TCP	UDP	Oracle WebCenter Content: Inbound Refinery—Intradoc Socket port. (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial

5555	TCP		Freeciv versions up to 2.0, Hewlett-Packard Data Protector, McAfee EndPoint Encryption Database Server, SAP, Default for Microsoft Dynamics CRM 4.0, Softether VPN default port	Unofficial
5556	TCP	UDP	Freeciv, Oracle WebLogic Server Node Manager[201]	Official
5568	TCP	UDP	Session Data Transport (SDT), a part of Architecture for Control Networks (ACN)[202]	Official
5591	TCP		Default for Tidal Enterprise Scheduler master-Socket used for communication between Agent-to-Master, though can be changed	Unofficial
5631	TCP		pcANYWHEREdata, Symantec pcAnywhere (version 7.52 and later[203])[204] data	Official
5632		UDP	pcANYWHEREstat, Symantec pcAnywhere (version 7.52 and later) status	Official
6541	TCP		MirrorOp2 (default)	Unofficial
6542	TCP		MirrorOp2 (fallback)	Unofficial
5656	TCP		IBM Lotus Sametime p2p file transfer	Unofficial
5666	TCP		NRPE (Nagios)	Unofficial
5667	TCP		NSCA (Nagios)	Unofficial
5670	TCP		FILEMQ ZeroMQ File Message Queuing Protocol	Official
5670		UDP	ZRE-DISC ZeroMQ Realtime Exchange Protocol (Discovery)	Official
5672	TCP		AMQP[205]	Official
5678		UDP	Mikrotik RouterOS Neighbor Discovery Protocol (MNDP)	Unofficial
5683		UDP	Constrained Application Protocol (CoAP)	Official
5700		UDP	Camstreams Media Encoder Connects Remote Camera to Server Port	Unofficial
5718	TCP		Microsoft DPM Data Channel (with the agent coordinator)	Unofficial
5719	TCP		Microsoft DPM Data Channel (with the protection agent)	Unofficial
5723	TCP		System Center Operations Manager[206]	Unofficial
5724	TCP		Operations Manager Console	Unofficial
5741	TCP	UDP	IDA Discover Port 1	Official
5742	TCP	UDP	IDA Discover Port 2	Official
5800	TCP		VNC remote desktop protocol over HTTP	Unofficial
5814	TCP	UDP	Hewlett-Packard Support Automation (HP OpenView Self-Healing Services)	Official
5850	TCP		COMIT SE (PCR)	Unofficial
5852	TCP		Adeona client: communications to OpenDHT	Unofficial
5881	TCP		SAP Americas Cockpit Framework	Unofficial
5900	TCP	UDP	Remote Frame Buffer protocol (RFB)	Official
5900	TCP		Virtual Network Computing (VNC) remote desktop protocol[11][207]	Unofficial
5912	TCP		Tidal Enterprise Scheduler agent default, for Master-to-Agent	Unofficial
5931	TCP	UDP	AMMYY admin Remote Control	Official
5938	TCP	UDP	TeamViewer remote desktop protocol[208]	Unofficial
5984	TCP	UDP	CouchDB database server	Official
5985	TCP		Windows PowerShell Default psSession Port[209]	Official
5986	TCP		Windows PowerShell Default psSession Port[209]	Official

5988–5989	TCP		CIM XML transactions over HTTP/S—VMware vCenter ESXi management[210]	Unofficial
5999	TCP		CVSup file update tool[211]	Official
6000-6063	TCP	UDP	X11—used between an X client and server over the network	Official
6005	TCP		Default for BMC Software Control-M/Server—Socket used for communication between Control-M processes—though often changed during installation	Unofficial
6005	TCP		Default for Camfrog chat & cam client	Unofficial
6009	TCP		JD Edwards EnterpriseOne ERP system JDENet messaging client listener	Unofficial
6050	TCP		Arcserve backup	Unofficial
6050	TCP		Nortel software	Unofficial
6051	TCP		Arcserve backup	Unofficial
6072	TCP		iOperator Protocol Signal Port	Unofficial
6086	TCP		Peer Distributed Transfer Protocol (PDTP), FTP like file server in a P2P network	Official
6100	TCP		Vizrt System	Unofficial
6100	TCP		Ventrilo authentication for version 3	Official
6101	TCP		Backup Exec Agent Browser	Unofficial
6110	TCP	UDP	softcm, HP Softbench CM	Official
6111	TCP	UDP	spc, HP Softbench Sub-Process Control	Official
6112	TCP	UDP	dtspcd, execute commands and launch applications remotely	Official
6112	TCP	UDP	Blizzard's Battle.net gaming service and some games,[108] ArenaNet gaming service, Relic gaming service	Unofficial
6112	TCP		Club Penguin Disney online game for kids	Unofficial
6113	TCP		Club Penguin Disney online game for kids, Used by some Blizzard games[108]	Unofficial
6129	TCP		DameWare Remote Control	Official
6136	TCP		ObjectDB database server[212]	Unofficial
6159	TCP		ARINC 840 EFB Application Control Interface	Official
6200	TCP		Oracle WebCenter Content Portable: Content Server (With Native UI) and Inbound Refinery	Unofficial
6201	TCP		Oracle WebCenter Content Portable: Admin	Unofficial
6225	TCP		Oracle WebCenter Content Portable: Content Server Web UI	Unofficial
6227	TCP		Oracle WebCenter Content Portable: JavaDB	Unofficial
6230	TCP		Codenger Dev Server	Unofficial
6240	TCP		Oracle WebCenter Content Portable: Capture	Unofficial
6244	TCP	UDP	Oracle WebCenter Content Portable: Content Server—Intradoc Socket port	Unofficial
6255	TCP	UDP	Oracle WebCenter Content Portable: Inbound Refinery—Intradoc Socket port	Unofficial
6257		UDP	WinMX (see also 6699)	Unofficial
6260	TCP	UDP	planet M.U.L.E.	Unofficial

6262	TCP		Sybase Advantage Database Server	Unofficial
6324	TCP	UDP	Hall Research Device discovery and configuration	Official
6343		UDP	SFlow, sFlow traffic monitoring	Official
6346	TCP	UDP	gnutella-svc, gnutella (FrostWire, Limewire, Shareaza, etc.)	Official
6347	TCP	UDP	gnutella-rtr, Gnutella alternate	Official
6350	TCP	UDP	App Discovery and Access Protocol	Official
6379	TCP		Redis key-value data store	Official
6389	TCP		EMC CLARiiON	Unofficial
6432	TCP		PgBouncer—A connection pooler for PostgreSQL	Official
6436	TCP		Leap Motion Websocket Server TLS	Unofficial
6437	TCP		Leap Motion Websocket Server	Unofficial
6444	TCP	UDP	Sun Grid Engine Qmaster Service	Official
6445	TCP	UDP	Sun Grid Engine Execution Service	Official
6502	TCP	UDP	Netop Remote Control	Unofficial
6513	TCP		NETCONF over TLS	Official
6514	TCP		Syslog over TLS[213]	Official
6515	TCP	UDP	Elipse RPC Protocol (REC)	Official
6522	TCP		Gobby (and other libobby-based software)	Unofficial
6523	TCP		Gobby 0.5 (and other libinfinity-based software)	Unofficial
6543	TCP		Pylons project#Pyramid Default Pylons Pyramid web service port	Unofficial
6556	TCP		Check MK Agent	Unofficial
6566	TCP		SANE (Scanner Access Now Easy)—SANE network scanner daemon[214]	Official
6560–6561	TCP		Speech-Dispatcher daemon	Unofficial
6571			Windows Live FolderShare client	Unofficial
6600	TCP		Microsoft Hyper-V Live	Official
6600	TCP		Music Player Daemon (MPD)	Unofficial
6601	TCP		Microsoft Forefront Threat Management Gateway	Official
6602	TCP		Microsoft Windows WSS Communication	Official
6619	TCP	UDP	odette-ftps, Odette File Transfer Protocol (OFTP) over TLS/SSL	Official
6622	TCP	UDP	Multicast FTP	Official
6646		UDP	McAfee Network Agent	Unofficial
6653	TCP		Openflow 1.3	Official
6660–6664	TCP		Internet Relay Chat (IRC)	Unofficial
6665–6669	TCP		Internet Relay Chat (IRC)	Official
6679	TCP	UDP	Osorno Automation Protocol (OSAUT)	Official
6679	TCP		IRC SSL (Secure Internet Relay Chat)—often used	Unofficial
6690	TCP		Synology Cloud station	Unofficial
6697	TCP		IRC SSL (Secure Internet Relay Chat)—often used	Official

6699	TCP		WinMX (see also 6257)	Unofficial
6702	TCP		Default for Tidal Enterprise Scheduler client-Socket used for communication between Client-to-Master, though can be changed	Unofficial
6715	TCP		AberMUD and derivatives default port	Unofficial
6771		UDP	Polycom server broadcast	Unofficial
6783–6785	TCP		Splashtop Remote server broadcast	Unofficial
6789	TCP		Campbell Scientific Loggernet Software[215]	Unofficial
6789	TCP		Bucky's Instant Messaging Program	Unofficial
6869	TCP		Derandom default server	Unofficial
6881–6887	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6888	TCP	UDP	MUSE	Official
6888	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6889–6890	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6891–6900	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6891–6900	TCP	UDP	Windows Live Messenger (File transfer)	Unofficial
6901	TCP	UDP	Windows Live Messenger (Voice)	Unofficial
6901	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6902–6968	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6969	TCP	UDP	acmsoda	Official
6969	TCP		BitTorrent tracker	Unofficial
6970–6999	TCP	UDP	BitTorrent part of full range of ports used most often	Unofficial
6970–9999		UDP	QuickTime Streaming Server[11]	Unofficial
7000	TCP		Default for Vuze's built in HTTPS Bittorrent Tracker	Unofficial
7000	TCP		Avira Server Management Console	Unofficial
7001	TCP		Avira Server Management Console	Unofficial
7001	TCP		Default for BEA WebLogic Server's HTTP server, though often changed during installation	Unofficial
7002	TCP		Default for BEA WebLogic Server's HTTPS server, though often changed during installation	Unofficial
7005	TCP		Default for BMC Software Control-M/Server and Control-M/Agent for Agent-to-Server, though often changed during installation	Unofficial
7006	TCP		Default for BMC Software Control-M/Server and Control-M/Agent for Server-to-Agent, though often changed during installation	Unofficial
7010	TCP		Default for Cisco AON AMC (AON Management Console)[216]	Unofficial
7022	TCP		Database mirroring endpoints[217]	Unofficial
7023		UDP	Bryan Wilcutt T2-NMCS Protocol for SatCom Modems	Official
7025	TCP		Zimbra LMTP [mailbox]—local mail delivery	Unofficial

7047	TCP		Zimbra conversion server	Unofficial
7070	TCP	UDP	Real Time Streaming Protocol (RTSP), used by QuickTime Streaming Server. TCP is used by default, UDP is used as an alternate.[11]	Unofficial
7080			Sepialine Argos Communications port	Unofficial
7133	TCP		Enemy Territory: Quake Wars	Unofficial
7144	TCP		Peercast	Unofficial
7145	TCP		Peercast	Unofficial
7171	TCP		Tibia	Unofficial
7262	TCP	UDP	CNAP (Calypso Network Access Protocol)	Official
7272	TCP	UDP	WatchMe - WatchMe Monitoring	Official
7306	TCP		Zimbra mysql [mailbox]	Unofficial
7307	TCP		Zimbra mysql [logger]	Unofficial
7312		UDP	Sibelius License Server	Unofficial
7396	TCP		Web control interface for Folding@home v7.3.6 and later[218]	Unofficial
7400	TCP	UDP	RTPS (Real Time Publish Subscribe) DDS Discovery	Official
7401	TCP	UDP	RTPS (Real Time Publish Subscribe) DDS User-Traffic	Official
7402	TCP	UDP	RTPS (Real Time Publish Subscribe) DDS Meta-Traffic	Official
7471	TCP		Stateless Transport Tunneling (STT)	Unofficial
7473	TCP		Rise: The Vieneo Province	Official
7474	TCP		Neo4J Server webadmin[219]	Official
7478	TCP		Default port used by Open iT Server.[220]	Official
7542	TCP	UDP	*Saratoga* file transfer protocol[221][222]	Official
7547	TCP	UDP	CPE WAN Management Protocol (CWMP) Technical Report 069	Official
7575		UDP	Populous: The Beginning server	Unofficial
7624	TCP	UDP	Instrument Neutral Distributed Interface	Official
7631	TCP		ERLPhase	Official
7634	TCP		hddtemp—Utility to monitor hard drive temperature	Unofficial
7652–7654	TCP		I2P anonymizing overlay network	Unofficial
7655		UDP	I2P SAM Bridge Socket API	Unofficial
7656–7660	TCP		I2P anonymizing overlay network	Unofficial
7670	TCP		BrettspielWelt BSW Boardgame Portal	Unofficial
7676	TCP		Aqumin AlphaVision Remote Command Interface	Unofficial
7687	TCP		Bolt database connection	Official
7700		UDP	P2P DC (RedHub)	Unofficial
7707–7708		UDP	Killing Floor	Unofficial
7717		UDP	Killing Floor	Unofficial
7777	TCP		iChat server file transfer proxy[11]	Unofficial
7777	TCP		Oracle Cluster File System 2	Unofficial

7777	TCP		Windows backdoor program tini.exe default	Unofficial
7777	TCP		Just Cause 2: Multiplayer Mod Server	Unofficial
7777	TCP		Xivio default Chat Server	Unofficial
7777	TCP		Terraria default server	Unofficial
7777		UDP	San Andreas Multiplayer (SA-MP) default port server	Unofficial
7778	TCP		Bad Trip MUD	Unofficial
7777–7788	TCP	UDP	Unreal Tournament series default server	Unofficial
7787–7788	TCP		GFI EventsManager 7 & 8	Official
7831	TCP		Default used by Smartlaunch Internet Cafe Administration[223] software	Unofficial
7880	TCP	UDP	PowerSchool Gradebook Server	Unofficial
7890	TCP		Default that will be used by the iControl Internet Cafe Suite Administration software	Unofficial
7915	TCP		Default for YSFlight server[224]	Unofficial
7935	TCP		Fixed port used for Adobe Flash Debug Player to communicate with a debugger (Flash IDE, Flex Builder or fdb).[225]	Unofficial
7990	TCP		Atlassian Bitbucket (default port)	Unofficial
8000	TCP		Commonly used for Internet radio streams such as SHOUTcast, Icecast and iTunes Radio[11]	Unofficial
8000	?	?	DynamoDB Local[226]	Unofficial
8000	?	?	Django Development Webserver[227]	Unofficial
8005	TCP		Tomcat remote shutdown[11]	Unofficial
8006	TCP		Quest AppAssure 5 API[228]	Unofficial
8007	TCP		Quest AppAssure 5 Engine[228]	Unofficial
8008	TCP	UDP	Alternative port for HTTP. See also ports 80 and 8080.	Official
8008	TCP		IBM HTTP Server administration default	Unofficial
8008	TCP		iCal, a calendar application by Apple[11]	Unofficial
8009	TCP		Apache JServ Protocol (`ajp13`)	Unofficial
8042	?	?	Orthanc – REST API over HTTP[166]	Unofficial
8069	TCP		OpenERP 5.0 XML-RPC protocol[229]	Unofficial
8070	TCP		OpenERP 5.0 NET-RPC protocol[229]	Unofficial
8074	TCP	UDP	Gadu-Gadu	Official
8075	TCP		Killing Floor web administration interface	Unofficial
8080	TCP	UDP	Alternative port for HTTP. See also ports 80 and 8008.	Official
8080	TCP		Apache Tomcat	Unofficial
8080	TCP		Atlassian JIRA applications[230]	Unofficial
8088	TCP		Asterisk management access via HTTP	Unofficial
8089	TCP		Splunk daemon management	Unofficial
8089	TCP		Fritz!Box automatic TR-709 configuration[231]	Unofficial
8090	?	?		Unofficial

			Atlassian Confluence[232]	
8090	TCP		Coral Content Distribution Network (legacy; 80 and 8080 now supported)[233]	Unofficial
8091	?	?	CouchBase web administration[234]	Unofficial
8092	?	?	CouchBase API[234]	Unofficial
8111	TCP		JOSM Remote Control	Unofficial
8112	TCP		PAC Pacifica Coin	Unofficial
8116		UDP	Check Point Cluster Control Protocol	Unofficial
8118	TCP		Privoxy—advertisement-filtering Web proxy	Official
8123	TCP		Polipo Web proxy	Official
8123	TCP		Bukkit DynMap Default Webserver Bind Address	Unofficial
8139	TCP		Puppet (software) Client agent	Unofficial
8140	TCP		Puppet (software) Master server	Official
8172	TCP		Microsoft Remote Administration for IIS Manager[235]	Unofficial
8176	TCP		Indigo Domotics Indigo Home automation server—control access	Unofficial
8180	TCP		EasyLog server—management and monitoring	Unofficial
8184	TCP		NCSA Brown Dog Data Access Proxy	Unofficial
8194	TCP		Bloomberg Application[5][236]	Official
8195	TCP		Bloomberg Application[236]	Unofficial
8200	TCP		GoToMyPC	Unofficial
8200	TCP		MiniDLNA media server Web Interface	
8222	TCP		VMware Server Management User Interface[237] (insecure Web interface).[238] See also port 8333	Unofficial
8243	TCP	UDP	HTTPS listener for Apache Synapse[239]	Official
8245	TCP		Dynamic DNS for at least No-IP and DyDNS[240]	Unofficial
8280	TCP	UDP	HTTP listener for Apache Synapse[239]	Official
8281	TCP		HTTP Listener for Gatecraft Plugin	Unofficial
8291	TCP		Winbox—Default on a MikroTik RouterOS for a Windows application used to administer MikroTik RouterOS[241]	Unofficial
8303		UDP	Teeworlds Server	Unofficial
8330	TCP		MultiBit HD, [1]	Unofficial
8331	TCP		MultiBit, [2]	Unofficial
8332	TCP		Bitcoin JSON-RPC server[242]	Unofficial
8333	TCP		Bitcoin[243]	Unofficial
8333	TCP		VMware Server Management User Interface[237] (secure Web interface).[238] See also port 8222	Unofficial
8337	TCP		VisualSVN Distributed File System Service (VDFS)[244]	Unofficial
8384	TCP		Syncthing web GUI	Unofficial
8400	TCP	UDP	cvd, CommVault Unified Data Management	Official
8442	TCP	UDP	CyBro A-bus, Cybrotech Ltd.	Official
8443	TCP		SW Soft Plesk Control Panel	Unofficial

8443	TCP		Apache Tomcat SSL	Unofficial
8443	TCP		Promise WebPAM SSL	Unofficial
8443	TCP		McAfee ePolicy Orchestrator (ePO)	Unofficial
8443	TCP		iCal over SSL[11]	Unofficial
8444	TCP		Bitmessage	Unofficial
8484	TCP		MapleStory Login Server	Unofficial
8500	TCP		Adobe ColdFusion built-in web server[245]	Unofficial
8530	?	?	Windows Server Update Services over HTTP[246][247]	Unofficial
8531	?	?	Windows Server Update Services over HTTPS[247][246]	Unofficial
8580	?	?	Freegate, an Internet anonymizer and proxy tool[248]	Unofficial
8629	TCP		Tibero database	Unofficial
8642	TCP		Lotus Notes Traveler auto synchronization for Windows Mobile and Nokia devices[249]	Unofficial
8691	TCP		Ultra Fractal, a fractal generation and rendering software application – distributed calculations over networked computers[250][251]	Unofficial
8767		UDP	Voice channel of TeamSpeak 2,[252] a proprietary Voice over IP protocol targeted at gamers	Unofficial
8834	?	?	Nessus, a vulnerability scanner – remote XML-RPC web server[253]	Unofficial
8840	?	?	Opera Unite, an extensible framework for web applications[254][255]	Unofficial
8880	TCP		Alternate port of CDDB (Compact Disc Database) protocol, used to look up audio CD (compact disc) information over the Internet.[256] See also port 888.	Official
8880	?	?	IBM WebSphere Application Server SOAP connector[257]	Unofficial
8883	TCP	UDP	Secure MQTT (MQTT over TLS)[258][259]	Official
8887	?	?	HyperVM over HTTP	Unofficial
8888	?	?	HyperVM over HTTPS	Unofficial
8888	?	UDP	Freenet over HTTP	Unofficial
8888	?	?	Default for IPython[260] / Jupyter[261] notebook dashboards	Unofficial
8888	?	?	MAMP web server	Unofficial
8889	?	?	MAMP MySQL database server	Unofficial
8983	TCP		Apache Solr[262]	Unofficial
8997	?	?	Alternate port for I2P Monotone Proxy[147]	Unofficial
8998	?	?	I2P Monotone Proxy[147]	Unofficial
8999	?	?	Alternate port for I2P Monotone Proxy[147]	Unofficial
9000	TCP		SonarQube Web Server[263]	Unofficial
9000	TCP		DBGp	Unofficial
9000	TCP		SqueezeCenter web server & streaming	Unofficial
9000		UDP	UDPCast	Unofficial
9000	TCP		Play! Framework web server[264]	Unofficial
9000	TCP		Hadoop NameNode default port	Unofficial

9000	TCP		PHP-FPM default port	Unofficial
9000	TCP		QBittorrent's embedded torrent tracker default port[265]	Unofficial
9001	TCP	UDP	ETL Service Manager[266]	Official
9001			Microsoft SharePoint authoring environment	Unofficial
9001			cisco-xremote router configuration	Unofficial
9001			Tor network default	Unofficial
9001	TCP		DBGp Proxy	Unofficial
9001	TCP		HSQLDB default port	Unofficial
9002			Newforma Server comms	Unofficial
9006			De-Commissioned Port	Official
9006	TCP		Tomcat in standalone mode[11]	Unofficial
9009	TCP	UDP	Pichat Server—Peer to peer chat software	Official
9010	TCP		TISERVICEMANAGEMENT Numara Track-It!	Unofficial
9020	TCP		WiT WiT Services	Official
9025	TCP		WiT WiT Services	Official
9030	TCP		Tor often used	Unofficial
9042	TCP		Apache Cassandra native protocol clients	Unofficial
9043	TCP		WebSphere Application Server Administration Console secure	Unofficial
9050–9051	TCP		Tor	Unofficial
9060	TCP		WebSphere Application Server Administration Console	Unofficial
9080	TCP	UDP	glrpc, Groove Collaboration software GLRPC	Official
9080	TCP		WebSphere Application Server HTTP Transport (port 1) default	Unofficial
9080	TCP		Remote Potato by FatAttitude, Windows Media Center addon	Unofficial
9080	TCP		ServerWMC, Windows Media Center addon	Unofficial
9090	TCP	UDP	WebSM	Unofficial
9090	TCP		Webwasher, Secure Web, McAfee Web Gateway—Default Proxy Port	Unofficial
9090	TCP		Openfire Administration Console	Unofficial
9090	TCP		SqueezeCenter control (CLI)	Unofficial
9090	TCP		Cherokee Admin Panel	Unofficial
9091	TCP		Openfire Administration Console (SSL Secured)	Unofficial
9091	TCP		Transmission (BitTorrent client) Web Interface	Unofficial
9092	TCP		H2 (DBMS) Database Server	Unofficial
9092	TCP		Apache Kafka A Distributed Streaming Platform	Unofficial
9100	TCP	UDP	PDL Data Stream, used for printing to certain network printers[11]	Official
9101	TCP	UDP	Bacula Director	Official
9102	TCP	UDP	Bacula File Daemon	Official
9103	TCP	UDP	Bacula Storage Daemon	Official
9105	TCP	UDP	Xadmin Control Daemon	Official
9106	TCP	UDP	Astergate Control Daemon	Official
9107	TCP		Astergate-FAX Control Daemon	Official

9110		UDP	SSMP Message protocol	Unofficial
9119	TCP	UDP	MXit Instant Messenger	Official
9150	TCP		Tor	Unofficial
9191	TCP		Catamount Software—PocketMoney Sync	Unofficial
9191	TCP		Sierra Wireless Airlink	Unofficial
9199	TCP		Avtex LLC—qStats	Unofficial
9200	TCP		Elasticsearch[267]—default Elasticsearch port	Unofficial
9217	TCP		iPass Platform Service	Unofficial
9293	TCP		Sony PlayStation RemotePlay[268]	Unofficial
9300	TCP		IBM Cognos 8 SOAP Business Intelligence and Performance Management	Unofficial
9303		UDP	D-Link Shareport Share storage and MFP printers	Unofficial
9306	TCP		Sphinx Native API	Official
9309	TCP	UDP	Sony PlayStation Vita Host Collaboration WiFi Data Transfer[269]	Unofficial
9312	TCP		Sphinx SphinxQL	Official
9332	TCP		Litecoin JSON-RPC server	Unofficial
9333	TCP		Litecoin	Unofficial
9339	TCP		Clash of Clans, a mobile freemium strategy video game	Unofficial
9389	TCP	UDP	adws, Microsoft AD DS Web Services, Powershell uses this port	Official
9418	TCP	UDP	git, Git pack transfer service	Official
9419	TCP		MooseFS distributed file system – master control port[270]	Unofficial
9420	TCP		MooseFS distributed file system – master command port[270]	Unofficial
9421	TCP		MooseFS distributed file system – master client port[270]	Unofficial
9422	TCP		MooseFS distributed file system – Chunkservers[270]	Unofficial
9425	TCP		MooseFS distributed file system – CGI server[270]	Unofficial
9443	TCP		VMware Websense Triton console (HTTPS port used for accessing and administrating a vCenter Server via the Web Management Interface)	Unofficial
9443	TCP		NCSA Brown Dog Data Tilling Service	Unofficial
9485	TCP		Linz TCP Server Chat TCP Connection used for chat.	Unofficial
9535	TCP	UDP	mngsuite, LANDesk Management Suite Remote Control	Official
9536	TCP	UDP	laes-bf, IP Fabrics Surveillance buffering function	Official
9600		UDP	Omron FINS, OMRON FINS PLC communication	Official
9675	TCP	UDP	Spiceworks Desktop, IT Helpdesk Software	Unofficial
9676	TCP	UDP	Spiceworks Desktop, IT Helpdesk Software	Unofficial
9695		UDP	CCNx	Official
9785	TCP	UDP	Viber[170]	Unofficial
9800	TCP	UDP	WebDAV Source	Official
9800			WebCT e-learning portal	Unofficial
9875	TCP		Club Penguin Disney online game for kids	Unofficial
9898	TCP		Tripwire—File Integrity Monitoring Software[271]	Unofficial

9899		UDP	SCTP tunneling (port number used in SCTP packets encapsulated in UDP, RFC 6951)	Official
9981	TCP		TVHeadend HTTP server (web interface)[272]	Unofficial
9982	TCP		TVHeadend HTSP server (Streaming protocol)[272]	Unofficial
9987		UDP	TeamSpeak 3 server default (voice) port (for the conflicting service see the IANA list)	Unofficial
9993		UDP	ZeroTier Default port for ZeroTier	Unofficial
9996	TCP		AdRem Software, Inc.'s NetCrunch NetFlow collector port. This port can be changed [273]	Unofficial
9997	TCP		Splunk port for communication between the forwarders and indexers	Unofficial
9999			Hydranode edonkey2000 Telnet control	Unofficial
9999	TCP		Lantronix UDS-10/UDS100[274] RS-485 to Ethernet Converter Telnet control	Unofficial
9999			Urchin Web Analytics	Unofficial
9999			India VitalEdge	Unofficial
10000	TCP	UDP	Network Data Management Protocol	Official
10000			BackupExec	Unofficial
10000			Ericsson Account Manager (avim)	Unofficial
10000			Webmin, Web-based Unix/Linux system administration tool (default port)	Unofficial
10000		UDP	Used on VoIP networks for receiving and transmitting voice telephony traffic which includes Google Voice via the OBiTalk ATA devices as well as on the MagicJack and Vonage ATA network devices.[275]	Unofficial
10001		UDP	Ubiquiti UniFi access points broadcast to 255.255.255.255:10001 (UDP) to locate the controller(s)	Unofficial
10001	TCP		Lantronix UDS-10/UDS100[276] RS-485 to Ethernet Converter default	Unofficial
10003	TCP		ForeScout SecureConnector	Unofficial
10008	TCP	UDP	Octopus Multiplexer, primary port for the CROMP protocol, which provides a platform-independent means for communication of objects across a network	Official
10009	TCP	UDP	Cross Fire, a multiplayer online First Person Shooter	Unofficial
10010	TCP		Open Object Rexx (ooRexx) rxapi daemon	Official
10017			AIX, NeXT, HPUX—rexd daemon control	Unofficial
10024	TCP		Zimbra smtp [mta]—to amavis from postfix	Unofficial
10025	TCP		Zimbra smtp [mta]—back to postfix from amavis	Unofficial
10042	TCP		Mathoid server	Unofficial
10050	TCP	UDP	Zabbix agent	Official
10051	TCP	UDP	Zabbix trapper	Official
10080	TCP		Touhou fight games (Inmaterial and Missing Power, Scarlet Weather Rhapsody, Hisoutensoku, Ten Desires and Urban Legend in Limbo)	Unofficial
10110	TCP	UDP	NMEA 0183 Navigational Data. Transport of NMEA 0183 sentences over TCP or UDP	Official
10172	TCP		Intuit Quickbooks client	Unofficial

10200	TCP		FRISK Software International's *fpscand* virus scanning daemon for Unix platforms[277]	Unofficial
10200	TCP		FRISK Software International's *f-protd* virus scanning daemon for Unix platforms[278]	Unofficial
10201–10204	TCP		FRISK Software International's *f-protd* virus scanning daemon for Unix platforms[278]	Unofficial
10212	TCP		GE Intelligent Platforms Proficy HMI/SCADA – CIMPLICITY WebView[279]	Official
10301	TCP		AVSystem UMP default device provisioning endpoint	Unofficial
10302	TCP		AVSystem UMP default device provisioning endpoint (SSL)	Unofficial
10308			Lock-on: Modern Air Combat	Unofficial
10480			SWAT 4 Dedicated Server	Unofficial
10505		UDP	BlueStacks (android simulator) broadcast[280]	Unofficial
10514	TCP	UDP	TLS-enabled Rsyslog (default by convention)	Unofficial
10823		UDP	Farming Simulator 2011 Default Server	Unofficial
10891	TCP		Jungle Disk (this port is opened by the Jungle Disk Monitor service on the localhost)	Unofficial
10933	TCP		Listen port used by the Octopus Deploy Tentacle deployment agent[281][282]	Official
11001	TCP	UDP	metasys (Johnson Controls Metasys java AC control environment)	Official
11111	TCP		RiCcI, Remote Configuration Interface (Redhat Linux)	Unofficial
11112	TCP	UDP	ACR/NEMA Digital Imaging and Communications in Medicine (DICOM)	Official
11155	TCP	UDP	Tunngle	Unofficial
11211	TCP	UDP	memcached[11]	Unofficial
11214	TCP	UDP	memcached incoming SSL proxy	Unofficial
11215	TCP	UDP	memcached internal outgoing SSL proxy	Unofficial
11235			Savage:Battle for Newerth Server Hosting	Unofficial
11294			Blood Quest Online Server	Unofficial
11311	TCP	UDP	Robot Operating System master	Unofficial
11371	TCP	UDP	OpenPGP HTTP key server	Official
11576			IPStor Server management communication	Unofficial
11753	TCP		OpenRCT2 multiplayer[283]	Unofficial
11950	TCP		Murraycoin JSON-RPC server[284]	Unofficial
11951	TCP		Murraycoin[284]	Unofficial
12007	TCP		NetCrunch 7 port for connection between NetCrunch 7 Server and Administration Console. This port can be changed [273]	Unofficial
12008	TCP		NetCrunch default connection broker port [273]	Unofficial
12009	TCP		NetCrunch 8 port for connection between NetCrunch 8 Server and Administration Console. This port can be changed [273]	Unofficial
12010	TCP		ElevateDB default database port[285]	Unofficial
12011	TCP		Axence nVision[286]	Unofficial

12012	TCP		Axence nVision[286]	Unofficial
12012	TCP		Audition Online Dance Battle, Korea Server—Status/Version Check	Unofficial
12012		UDP	Audition Online Dance Battle, Korea Server—Status/Version Check	Unofficial
12013	TCP	UDP	Audition Online Dance Battle, Korea Server	Unofficial
12030	TCP		NetCrunch - port for connection between NetCrunch Server and NetCrunch Guard [273]	Unofficial
12031	TCP		Axence nVision[286]	Unofficial
12032	TCP		Axence nVision[286]	Unofficial
12035		UDP	Linden Lab viewer to sim on SecondLife	Unofficial
12201		UDP	GELF Protocol	Unofficial
12222		UDP	Light Weight Access Point Protocol (LWAPP) LWAPP data (RFC 5412)	Official
12223		UDP	Light Weight Access Point Protocol (LWAPP) LWAPP control (RFC 5412)	Official
12345			NetBus remote administration tool (often Trojan horse). Also used by NetBuster. Little Fighter 2 (TCP), Cubeworld[287] (TCP and UDP), and (TCP) GVG (Grass Valley Group) SMS7000 and RCL video router control	Unofficial
12443	TCP		IBM HMC web browser management access over HTTPS instead of default port 443[288]	Unofficial
12489	TCP		NSClient/NSClient++/NC_Net (Nagios)	Unofficial
12975	TCP		LogMeIn Hamachi (VPN tunnel software; also port 32976)—used to connect to Mediation Server (bibi.hamachi.cc); will attempt to use SSL (TCP port 443) if both 12975 & 32976 fail to connect	Unofficial
12998–12999		UDP	Takenaka RDI Mirror World on SecondLife	Unofficial
13001	TCP		ForeScout CounterACT	Unofficial
13000–13050		UDP	Linden Lab viewer to sim on SecondLife	Unofficial
13008	TCP	UDP	Cross Fire, a multiplayer online First Person Shooter	Unofficial
13075	TCP		Default[289] for BMC Software Control-M/Enterprise Manager Corba communication, though often changed during installation	Official
13195–13196	TCP	UDP	Ontolux Ontolux 2D	Unofficial
13720	TCP	UDP	Symantec NetBackup—bprd (formerly VERITAS)	Official
13721	TCP	UDP	Symantec NetBackup—bpdbm (formerly VERITAS)	Official
13724	TCP	UDP	Symantec Network Utility—vnetd (formerly VERITAS)	Official
13782	TCP	UDP	Symantec NetBackup—bpcd (formerly VERITAS)	Official
13783	TCP	UDP	Symantec VOPIED protocol (formerly VERITAS)	Official
13785	TCP	UDP	Symantec NetBackup Database—nbdb (formerly VERITAS)	Official
13786	TCP	UDP	Symantec nomdb (formerly VERITAS)	Official
14439	TCP		APRS UI-View Amateur Radio[290] UI-WebServer	Unofficial
14550		UDP	MAVLink	Unofficial
14567		UDP	Battlefield 1942 and mods	Unofficial

14900	TCP		K3 SYSPRO K3 Framework WCF Backbone	Unofficial
15000	TCP		psyBNC	Unofficial
15000	TCP		Wesnoth	Unofficial
15000	TCP		Kaspersky Network Agent	Unofficial
15000	TCP	UDP	hydap, Hypack Hydrographic Software Packages Data Acquisition	Official
15556	TCP	UDP	Jeex.EU Artesia (direct client-to-db.service)	Official
15567		UDP	Battlefield Vietnam and mods	Unofficial
15345	TCP	UDP	XPilot Contact	Official
16000	TCP		Oracle WebCenter Content: Imaging (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial
16000	TCP		shroudBNC	Unofficial
16080	TCP		Mac OS X Server Web (HTTP) service with performance cache[291]	Unofficial
16200	TCP		Oracle WebCenter Content: Content Server (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial
16225	TCP		Oracle WebCenter Content: Content Server Web UI. Port though often changed during installation	Unofficial
16250	TCP		Oracle WebCenter Content: Inbound Refinery (formerly known as Oracle Universal Content Management). Port though often changed during installation	Unofficial
16261	TCP	UDP	Project Zomboid Multiplayer Server: Additional sequential ports used for each player connecting to server	Unofficial
16300	TCP		Oracle WebCenter Content: Records Management (formerly known as Oracle Universal Records Management). Port though often changed during installation	Unofficial
16384		UDP	CISCO Default RTP MIN	Unofficial
16384-16387		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's iChat for audio and video[11]	Unofficial
16384-16387		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's FaceTime and Game Center[11]	Unofficial
16393-16402		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's FaceTime and Game Center[11]	Unofficial
16403-16472		UDP	Real-time Transport Protocol (RTP), RTP Control Protocol (RTCP), used by Apple's Game Center[11]	Unofficial
16400	TCP		Oracle WebCenter Content: Capture (formerly known as Oracle Document Capture). Port though often changed during installation	Unofficial
16482			CISCO Default RTP MAX	Official
16567		UDP	Battlefield 2 and mods	Unofficial
17011	TCP		Worms multiplayer	Unofficial
17500	TCP	UDP	Dropbox LanSync Protocol (db-lsp); used to synchronize file catalogs between Dropbox clients on a local network.	Official
18010	TCP		Super Dancer Online Extreme(SDO-X)—CiB Net Station Malaysia Server	Unofficial
18091	TCP	UDP	memcached Internal REST HTTPS for SSL	Unofficial
18092	TCP	UDP	memcached Internal CAPI HTTPS for SSL	Unofficial

18104	TCP		RAD PDF Service	Official
18180	TCP		DART Reporting server	Unofficial
18200	TCP	UDP	Audition Online Dance Battle, AsiaSoft Thailand Server status/version check	Unofficial
18201	TCP	UDP	Audition Online Dance Battle, AsiaSoft Thailand Server	Unofficial
18206	TCP	UDP	Audition Online Dance Battle, AsiaSoft Thailand Server FAM database	Unofficial
18300	TCP	UDP	Audition Online Dance Battle, AsiaSoft SEA Server status/version check	Unofficial
18301	TCP	UDP	Audition Online Dance Battle, AsiaSoft SEA Server	Unofficial
18306	TCP	UDP	Audition Online Dance Battle, AsiaSoft SEA Server FAM database	Unofficial
18333	TCP		Bitcoin testnet[243]	Unofficial
18400	TCP	UDP	Audition Online Dance Battle, KAIZEN Brazil Server status/version check	Unofficial
18401	TCP	UDP	Audition Online Dance Battle, KAIZEN Brazil Server	Unofficial
18505	TCP	UDP	Audition Online Dance Battle R4p3 Server, Nexon Server status/version check	Unofficial
18506	TCP	UDP	Audition Online Dance Battle, Nexon Server	Unofficial
18605	TCP	UDP	X-BEAT status/version check	Unofficial
18606	TCP	UDP	X-BEAT	Unofficial
19000	TCP	UDP	Audition Online Dance Battle, G10/alaplaya Server status/version check	Unofficial
19000		UDP	JACK sound server	Unofficial
19001	TCP	UDP	Audition Online Dance Battle, G10/alaplaya Server	Unofficial
19007	TCP	UDP	Veejansh Inc. Scintilla Device Service	Official
19132		UDP	Standard Minecraft Pocket Edition Multiplayer Server Port	Unofficial
19150	TCP	UDP	Gkrellm Server	Unofficial
19226	TCP		Panda Software AdminSecure Communication Agent	Unofficial
19283	TCP	UDP	K2—KeyAuditor & KeyServer, Sassafras Software Inc.[292] Software Asset Management tools	Official
19294	TCP		Google Talk Voice and Video connections[293]	Unofficial
19295		UDP	Google Talk Voice and Video connections[293]	Unofficial
19302		UDP	Google Talk Voice and Video connections[293]	Unofficial
19315	TCP	UDP	KeyShadow for K2—KeyAuditor & KeyServer, Sassafras Software Inc.[292] Software Asset Management tools	Official
19540	TCP		Gamecoin RCP	Unofficial
19540	TCP		Gamecoin Testnet	Unofficial
19540	TCP		Gamecoin P2P	Unofficial
19540	TCP	UDP	Belkin Network USB Hub	Unofficial
19638	TCP		Ensim Control Panel	Unofficial
19812	TCP		4D database SQL Communication[294]	Official
19813	TCP	UDP	4D database Client Server Communication[294]	Official

19814	TCP		4D database DB4D Communication[294]	Official
19999			Distributed Network Protocol—Secure (DNP—Secure), a secure version of the protocol used in SCADA systems between communicating RTU's and IED's	Official
20000			Distributed Network Protocol (DNP), a protocol used in SCADA systems between communicating RTU's and IED's	Official
20000			Usermin, Web-based Unix/Linux user administration tool (default port)	Unofficial
20000		UDP	Used on VoIP networks for receiving and transmitting voice telephony traffic which includes Google Voice via the OBiTalk ATA devices as well as on the MagicJack and Vonage ATA network devices.[275]	Unofficial
20202	TCP		OnNet (Net2E)	Unofficial
20014	TCP		DART Reporting server	Unofficial
20560	TCP	UDP	Killing Floor	Unofficial
20595		UDP	0 A.D. Empires Ascendant	Unofficial
20702	TCP		Precise TPM Listener Agent	Unofficial
20720	TCP		Symantec i3 Web GUI server	Unofficial
20790	TCP		Precise TPM Web GUI server	Unofficial
20808	UDP		Ableton Link	Unofficial
21025	TCP		Starbound Server (default), Starbound	Unofficial
22000	TCP		Syncthing (default)	Unofficial
22136	TCP		FLIR Systems Camera Resource Protocol	Unofficial
22222	TCP		Davis Instruments, WeatherLink IP	Unofficial
22347	TCP	UDP	WibuKey, Software protection system	Official
22349	TCP		Wolfson Microelectronics WISCEBridge Debug Protocol[295]	Unofficial
22350	TCP	UDP	CodeMeter, WIBU-SYSTEMS AG Software protection system	Official
23073			Soldat Dedicated Server	Unofficial
23284			TimeTracker by Openhour	Official
23399			Skype default protocol	Unofficial
23513			Duke Nukem 3D#Source code Duke Nukem Ports	Unofficial
24441	TCP	UDP	Pyzor spam detection network	Unofficial
24444			NetBeans integrated development environment	Unofficial
24465	TCP	UDP	Tonido Directory Server for Tonido which is a Personal Web App and P2P platform	Official
24554	TCP	UDP	BINKP, Fidonet mail transfers over TCP/IP	Official
24800			Synergy: keyboard/mouse sharing software	Unofficial
24842			StepMania: Online: *Dance Dance Revolution* Simulator	Unofficial
25000	TCP		Teamware Office standard client connection	Official
25001	TCP		Default port for Unity3D networking	Official
25003	TCP		Teamware Office client notifier	Official
25005	TCP		Teamware Office message transfer	Official
25007	TCP		Teamware Office MIME Connector	Official
25008	TCP		Jayson's Water Fun Connector	Unofficial

25010	TCP		Teamware Office Agent server	Official
25105	TCP		Default port for Insteon Hub	Unofficial
25560	TCP		codeheart.js Relay Server	Unofficial
25565	TCP	N/A	Standard Minecraft (Dedicated) Server[296][297]	Unofficial
25565			MySQL database system	Unofficial
25570			Manic Digger default single player port	Unofficial
25826		UDP	collectd default port[298]	Unofficial
25828–25840	TCP	UDP	DarknessBlade Network.	Unofficial
25888		UDP	Xfire (Firewall Report, UDP_IN) IP Address (206.220.40.146) resolves to gameservertracking.xfire.com. Use unknown.	Unofficial
25999	TCP		Xfire	Unofficial
26000	TCP	UDP	id Software's *Quake* server	Official
26000	TCP		CCP's EVE Online Online gaming MMORPG	Unofficial
26000		UDP	Xonotic, an open source arena shooter	Unofficial
26850	TCP		War of No Return Server Port	Unofficial
26900–26901	TCP		CCP's EVE Online Online gaming MMORPG	Unofficial
26950	TCP	UDP	GIMA Productions	Unofficial
27000–27030		UDP	Steam, client[299]	Unofficial
27000		UDP	(through 27006) id Software's *QuakeWorld* master server	Unofficial
27000	TCP		PowerBuilder *SySAM* license server	Unofficial
27000–27009	TCP	UDP	FlexNet Publisher's License server (from the range of default ports)	Official
27014–27050	TCP		Steam, file downloads[299]	Unofficial
27015		UDP	GoldSrc and Source engine dedicated server port[299]	Unofficial
27016			Magicka server port	Unofficial
27017			MongoDB server port	Unofficial
27031–27036		UDP	Steam, In-Home Streaming (LAN only)[299]	Unofficial
27374			Sub7 default.	Unofficial
27500–27900		UDP	id Software's *QuakeWorld*	Unofficial
27888		UDP	Kaillera server	Unofficial
27900–27901			Nintendo Wi-Fi Connection	Unofficial
27901–27910		UDP	id Software's *Quake II* master server	Unofficial
27950		UDP	OpenArena outgoing	Unofficial
27960–27969		UDP	Activision's *Enemy Territory* and id Software's *Quake III Arena*, *Quake III* and *Quake Live* and some ioquake3 derived games, such as Urban Terror (OpenArena incoming)	Unofficial

28000			Bitfighter Common/default Bitfighter Server	Unofficial
28001			Starsiege: Tribes Common/default Tribes v.1 Server	Unofficial
28015		UDP	default Rust Server	Unofficial
28016		UDP	default Rust remote connect Server	Unofficial
28770		UDP	AssaultCube Reloaded default server port	Unofficial
28771		UDP	AssaultCube Reloaded default server info port	Unofficial
28785		UDP	Cube 2 Sauerbraten[300]	Unofficial
28786		UDP	Cube 2 Sauerbraten Port 2[300]	Unofficial
28801–28802		UDP	Red Eclipse (Cube 2 derivative) default ports[301]	Unofficial
28852	TCP	UDP	Killing Floor	Unofficial
28910			Nintendo Wi-Fi Connection[302]	Unofficial
28960		UDP	*Call of Duty*; *Call of Duty: United Offensive*; *Call of Duty 2*; *Call of Duty 4: Modern Warfare*; *Call of Duty: World at War* (PC Version)	Unofficial
29000			Perfect World International Used by the Perfect World International Client	Unofficial
29070	TCP	UDP	Game titled "Jedi Knight: Jedi Academy" by Ravensoft	Unofficial
29292	TCP		TMO Integration Service Communications Port, Used by Transaction Manager SaaS (HighJump Software)	Unofficial
29900–29901			Nintendo Wi-Fi Connection[302]	Unofficial
29920			Nintendo Wi-Fi Connection[302]	Unofficial
30564	TCP		Multiplicity: keyboard/mouse/clipboard sharing software	Unofficial
31337	TCP		Back Orifice remote administration tool	Unofficial
31416	?	?	BOINC RPC[303]	Unofficial
31438	TCP		Rocket U2[304]	Unofficial
31457	TCP		TetriNET	Official
32137	TCP	UDP	Immunet Protect (UDP in version 2.0,[305] TCP since version 3.0[306])	Unofficial
32400	TCP		Plex Media Server[307]	Official
32764	TCP		A backdoor found on certain Linksys, Netgear and other wireless DSL modems/combination routers[308]	Unofficial
32887	TCP		Ace of Spades, a multiplayer FPS video game	Unofficial
32976	TCP		LogMeIn Hamachi, a VPN application; also TCP port 12975 and SSL (TCP 443).[309]	Unofficial
33434	TCP	UDP	traceroute	Official
33848		UDP	Jenkins, a continuous integration (CI) tool[310][311]	Unofficial
34000		UDP	*Infestation: Survivor Stories* (formerly known as *The War Z*), a multiplayer zombie video game	Unofficial
35357	TCP		OpenStack Identity (Keystone) administration[312]	Official
40000	TCP	UDP	SafetyNET p – a real-time Industrial Ethernet protocol	Official
43594–43595	?	?	RuneScape[313]	Unofficial

44405	TCP		Mu Online Connect Server	Unofficial
44818	TCP	UDP	EtherNet/IP explicit messaging	Official
47001	TCP		Windows Remote Management Service (WinRM)[314]	Official
47808	TCP	UDP	BACnet Building Automation and Control Networks (47808_{10} = $BAC0_{16}$)	Official
49151	TCP	UDP	Reserved[5]	Official

Dynamic, private or ephemeral ports

The range 49152–65535 ($2^{15}+2^{14}$ to $2^{16}-1$) contains dynamic or private ports that cannot be registered with IANA.[315] This range is used for private, or customized services or temporary purposes and for automatic allocation of ephemeral ports.

See also

- Internet Protocol Suite

References

1. `services(5) (https://linux.die.net/man/5/services)` – Linux File Formats Manual
2. `services(5) (https://www.freebsd.org/cgi/man.cgi?query=services&sektion=5)` – FreeBSD File Formats Manual
3. `services(5) (http://man.openbsd.org/?query=services&sec=5)` – OpenBSD File Formats Manual
4. `services(5) (http://modman.unixdev.net?page=services&sektion=5&manpath=4.2BSD)` – 4.2BSD File Formats Manual
5. "Service Name and Transport Protocol Port Number Registry" (https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.txt). The Internet Assigned Numbers Authority (IANA).
6. Michelle Cotton; Lars Eggert et al. (August 2011). *Internet Assigned Numbers Authority (IANA) Procedures for the Management of the Service Name and Transport Protocol Port Number Registry* (https://tools.ietf.org/html/rfc6335). IETF. doi:10.17487/RFC6335 (http://dx.doi.org/10.17487%2FRFC6335). BCP 165. RFC 6335. https://tools.ietf.org/html/rfc6335. Retrieved 2014-04-01.
7. "compressnet/tcp" (http://www.unix.com/showthread.php?t=135087). Unix.com. Retrieved 2014-05-27.
8. "Linux/net/ipv4/inet_connection_sock.c" (http://lxr.free-electrons.com/source/net/ipv4/inet_connection_sock.c?v=3.18#L89). LXR. Retrieved 2015-01-17.
9. Lottor, M. (November 1988). *TCP Port Service Multiplexer (TCPMUX)* (https://tools.ietf.org/html/rfc1078). IETF. pp. 1–2. doi:10.17487/RFC1078 (http://dx.doi.org/10.17487%2FRFC1078). RFC 1078. https://tools.ietf.org/html/rfc1078. Retrieved 2016-09-28.
10. Postel, J. (May 1983). *Daytime Protocol* (https://tools.ietf.org/html/rfc862#page-1). IETF. p. 1. doi:10.17487/RFC0862 (http://dx.doi.org/10.17487%2FRFC0862). STD 20. RFC 862. https://tools.ietf.org/html/rfc862#page-1. Retrieved 2016-09-28.
11. "TCP and UDP ports used by Apple software products" (https://support.apple.com/en-us/HT202944). Support. *Apple* (published 2016-02-05). 2014-11-08. Archived (https://web.archive.org/web/20160913023842/https://support.apple.com/en-us/HT202944) from the original on 2016-09-13. Retrieved 2016-09-13.
12. Stewart, Randall R., ed. (September 2007). *Stream Control Transmission Protocol* (https://tools.ietf.org/html/rfc4960). IETF. pp. 135–136. doi:10.17487/RFC4960 (http://dx.doi.org/10.17487%2FRFC4960). RFC 4960. https://tools.ietf.org/html/rfc4960. Retrieved 2016-09-27.
13. Postel, J. (May 1983). *Discard Protocol* (https://tools.ietf.org/html/rfc863#page-1). IETF. p. 1. doi:10.17487/RFC0863 (http://dx.doi.org/10.17487%2FRFC0863). STD 21. RFC 863. https://tools.ietf.org/html/rfc863#page-1. Retrieved 2016-10-07.
14. "How to Configure the Ports Used for Wake On LAN" (https://technet.microsoft.com/en-us/library/bb632665.aspx). *Microsoft TechNet*. n.d. Archived (https://web.archive.org/web/20160927201148/https://technet.microsoft.com/en-us/library/bb632665.aspx) from the original on 2016-09-27. Retrieved 2016-09-27. "... The default port for the wake-up transmission is UDP port 9. ..."

15. "systat and netstat"(http://etutorials.org/Networking/network+security+assessment/Chapter+5.+Assessing+Remote+Information+Services/5.2+systat+and+netstat)eTutorials. "... The `ps -ef` and `netstat -a` commands are bound to TCP ports 11 and 15, respectively ..."
16. Postel, J. (May 1983).*Active Users* (https://tools.ietf.org/html/rfc866). IETF. doi:10.17487/RFC0866(http://dx.doi.org/10.17487%2FRFC0866) STD 24. RFC 866. https://tools.ietf.org/html/rfc866.
17. Postel, J. (May 1983).*Daytime Protocol* (https://tools.ietf.org/html/rfc867#page-1) IETF. p. 1. doi:10.17487/RFC0867 (http://dx.doi.org/10.17487%2FRFC0867) STD 25. RFC 867. https://tools.ietf.org/html/rfc867#page-1. Retrieved 2016-09-27.
18. Postel, J. (May 1983).*Quote of the Day Protocol* (https://tools.ietf.org/html/rfc865#page-1) IETF. p. 1. doi:10.17487/RFC0865(http://dx.doi.org/10.17487%2FRFC0865) STD 23. RFC 865. https://tools.ietf.org/html/rfc865#page-1. Retrieved 2016-09-27.
19. Nelson, Russell (June 1990).*Message Send Protocol* (https://tools.ietf.org/html/rfc1159#page-1). IETF. p. 1. doi:10.17487/RFC1159 (http://dx.doi.org/10.17487%2FRFC1159). RFC 1159. https://tools.ietf.org/html/rfc1159#page-1. Retrieved 2016-09-27.
20. Nelson, Russell; Arnold, Geof (April 1992).*Message Send Protocol 2* (https://tools.ietf.org/html/rfc1312). IETF. pp. 3–4. doi:10.17487/RFC1312(http://dx.doi.org/10.17487%2FRFC1312) RFC 1312. https://tools.ietf.org/html/rfc1312. Retrieved 2016-09-27.
21. Postel, J. (May 1983).*Character Generator Protocol* (https://tools.ietf.org/html/rfc864#page-1) IETF. p. 1. doi:10.17487/RFC0864(http://dx.doi.org/10.17487%2FRFC0864) STD 22. RFC 864. https://tools.ietf.org/html/rfc864#page-1. Retrieved 2016-09-27.
22. Postel, J. (June 1980).*File Transfer Protocol specification*(https://tools.ietf.org/html/rfc765#page-57) IETF. p. 57. doi:10.17487/RFC0765(http://dx.doi.org/10.17487%2FRFC0765) RFC 765. IEN 149. https://tools.ietf.org/html/rfc765#page-57. Retrieved 2016-09-27.
23. Postel, J.; Reynolds, J. (October 1985).*File Transfer Protocol* (https://tools.ietf.org/html/rfc959#page-59) IETF. p. 59. doi:10.17487/RFC0959(http://dx.doi.org/10.17487%2FRFC0959) STD 9. RFC 959. https://tools.ietf.org/html/rfc959#page-59 Retrieved 2016-09-27.
24. Postel, J.; Reynolds, J. (May 1983).*Telnet Protocol Specification*(https://tools.ietf.org/html/rfc854#page-15) IETF. p. 15. doi:10.17487/RFC0854(http://dx.doi.org/10.17487%2FRFC0854) STD 8. RFC 854. https://tools.ietf.org/html/rfc854#page-15 Retrieved 2016-09-28
25. Postel, Jonathan B.(August 1982).*Simple Mail Transfer Protocol* (https://tools.ietf.org/html/rfc821#page-44) IETF. p. 44. doi:10.17487/RFC0821(http://dx.doi.org/10.17487%2FRFC0821) STD 10. RFC 821. https://tools.ietf.org/html/rfc821#page-44 Retrieved 2016-09-28
26. Postel, J.; Harrenstien, K. (May 1983).*Time Protocol* (https://tools.ietf.org/html/rfc868). IETF. pp. 1–2. doi:10.17487/RFC0868(http://dx.doi.org/10.17487%2FRFC0868) STD 26. RFC 868. https://tools.ietf.org/html/rfc868. Retrieved 2016-09-28
27. Ullmann, Robert (June 1993)."RAP Protocol"(https://tools.ietf.org/html/rfc1476#section-2) *RAP: Internet Route Access Protocol* (https://tools.ietf.org/html/rfc1476). IETF. p. 4. sec. 2. doi:10.17487/RFC1476(http://dx.doi.org/10.17487%2FRFC1476) RFC 1476. https://tools.ietf.org/html/rfc1476#section-2 Retrieved 2016-10-16. "... The RAP protocol operates on TCP port 38, with peers opening a symmetric TCP connection between the RAP ports on each system. ... RAP is also used on UDP port 38, as a peer discovery method. ..."
28. Accetta, M. (December 1983).*Resource Location Protocol* (https://tools.ietf.org/html/rfc887#appendix-A). IETF. p. 15. sec. A. doi:10.17487/RFC0887(http://dx.doi.org/10.17487%2FRFC0887) RFC 887. https://tools.ietf.org/html/rfc887#appendix-A Retrieved 2016-09-28 "... The "well-known" UDP port number for the Resource Location Protocol is 39 (47 octal). ..."
29. Postel, J. (August 1979).*Internet Name Server*(https://tools.ietf.org/rfcmarkup?url=https://www.ietf.org/rfc/ien/ien116.txt). IETF. IEN 116. https://tools.ietf.org/rfcmarkup?url=https://www.ietf.org/rfc/ien/ien116.txt. Retrieved 2016-09-28
30. Harrenstien, Ken; White, Vic (1982-03-01).*NICNAME/WHOIS*(https://tools.ietf.org/html/rfc812#page-1) IETF. p. 1. doi:10.17487/RFC0812(http://dx.doi.org/10.17487%2FRFC0812) RFC 812. https://tools.ietf.org/html/rfc812#page-1. Retrieved 2016-09-28
31. Harrenstien, K.; Stahl, M.; Feinler, E. (October 1985).*NICNAME/WHOIS*(https://tools.ietf.org/html/rfc954#page-2) IETF. p. 2. doi:10.17487/RFC0954(http://dx.doi.org/10.17487%2FRFC0954) RFC 954. https://tools.ietf.org/html/rfc954#page-2 Retrieved 2016-09-28
32. Daigle, Leslie (September 2004).*WHOIS Protocol Specification*(https://tools.ietf.org/html/rfc3912#page-2) Ran Atkinson, Ken Harrenstien, Mary Stahl, Elizabeth Feinler.IETF. p. 2. doi:10.17487/RFC3912(http://dx.doi.org/10.17487%2FRFC3912). RFC 3912. https://tools.ietf.org/html/rfc3912#page-2 Retrieved 2016-09-28
33. Finseth, Craig A. (July 1993).*An Access Control Protocol, Sometimes Called TACACS* (https://tools.ietf.org/html/rfc1492#page-7). IETF. p. 7. doi:10.17487/RFC1492(http://dx.doi.org/10.17487%2FRFC1492) RFC 1492. https://tools.ietf.org/html/rfc1492#page-7 Retrieved 2016-09-28
34. Dorner, Steve; Resnick, Pete (June 1992).*Remote Mail Checking Protocol* (https://tools.ietf.org/html/rfc1339). IETF. pp. 1–2. doi:10.17487/RFC1339(http://dx.doi.org/10.17487%2FRFC1339) RFC 1339. https://tools.ietf.org/html/rfc1339. Retrieved 2016-09-28

35. Sollins, Karen R. (1980-01-29). *The TFTP Protocol* (https://tools.ietf.org/rfcmarkup?url=https://www.ietf.org/rfc/ien/ien133.txt#page-6). IETF. p. 6. IEN 133. https://tools.ietf.org/rfcmarkup?url=https://www.ietf.org/rfc/ien/ien133.txt#page-6. Retrieved 2016-10-16
36. Sollins, K.R. (June 1981). *TFTP Protocol (revision 2)* (https://tools.ietf.org/html/rfc783). Noel Chiappa, Bob Baldwin, Dave Clark, Steve Szymanski, Larry Allen, Geoff Cooper, Mike Greenwald, Liza Martin, David Reed. IETF. pp. 6, 14, 16. doi:10.17487/RFC0783 (http://dx.doi.org/10.17487%2FRFC0783). RFC 783. https://tools.ietf.org/html/rfc783. Retrieved 2016-10-16
37. Sollins, Karen R. (July 1992). *The TFTP Protocol (Revision 2)* (https://tools.ietf.org/html/rfc1350). IETF. pp. 4–5, 9, 10. doi:10.17487/RFC1350 (http://dx.doi.org/10.17487%2FRFC1350). STD 33. RFC 1350. https://tools.ietf.org/html/rfc1350. Retrieved 2016-10-16
38. Anklesaria [*sic?*], Farhad; McCahill, M.; Lindner, Paul; Johnson, David; Torrey, Daniel; Alberti, Bob (March 1993). *The Internet Gopher Protocol (a distributed document search and retrieval protocol)* (https://tools.ietf.org/html/rfc1439). IETF. pp. 1, 4–5, 7, 11–13. doi:10.17487/RFC1436 (http://dx.doi.org/10.17487%2FRFC1436). RFC 1439. https://tools.ietf.org/html/rfc1439. Retrieved 2016-10-16 "... This protocol assumes a reliable data stream; TCP is assumed. Gopher servers should listen on port 70 (port 70 is assigned to Internet Gopher by IANA). ..."
39. Braden, R. (1971-01-13). *NETRJS: A third level protocol for Remote Job Entry* (https://tools.ietf.org/html/rfc88). IETF. doi:10.17487/RFC0088 (http://dx.doi.org/10.17487%2FRFC0088). RFC 88. https://tools.ietf.org/html/rfc88. Retrieved 2016-10-16.
40. Braden, R. (1977-11-22). *NETRJS Protocol* (https://tools.ietf.org/html/rfc740#page-3). IETF. p. 3. doi:10.17487/RFC0740 (http://dx.doi.org/10.17487%2FRFC0740). RFC 740. https://tools.ietf.org/html/rfc740#page-3. Retrieved 2016-10-16
41. Postel, Jon; Vernon, J. (January 1983). *Assigned Numbers* (https://tools.ietf.org/html/rfc820#page-10). IETF. p. 10. doi:10.17487/RFC0820 (http://dx.doi.org/10.17487%2FRFC0820). RFC 820. https://tools.ietf.org/html/rfc820#page-10. Retrieved 2016-10-16
42. Karrenstien, K. (1977-12-30). *NAME/FINGER Protocol* (https://tools.ietf.org/html/rfc742#page-1). IETF. p. 1. doi:10.17487/RFC0742 (http://dx.doi.org/10.17487%2FRFC0742). RFC 742. https://tools.ietf.org/html/rfc742#page-1. Retrieved 2016-10-16
43. Zimmerman, David Paul (December 1991). "Flow of events" (https://tools.ietf.org/html/rfc1288#section-2.1). *The Finger User Information Protocol* (https://tools.ietf.org/html/rfc1288). IETF. p. 4. sec. 2.1. doi:10.17487/RFC1288 (http://dx.doi.org/10.17487%2FRFC1288). RFC 1288. https://tools.ietf.org/html/rfc1288#section-2.1. Retrieved 2016-10-16. "... Finger is based on the Transmission Control Protocol, using TCP port 79 decimal ..."
44. "Does HTTP use UDP" (https://stackoverflow.com/q/323351). *Stack Overflow* (published 2016-05-06). 2008-11-27. Archived (https://web.archive.org/web/20161016135136/https://stackoverflow.com/q/323351) from the original on 2016-10-16. Retrieved 2016-10-16.
45. Fielding, Roy T.; Gettys, James; Mogul, Jeffrey C.; Nielsen, Henrik Frystyk; Masinter, Larry; Leach, Paul J.; Berners-Lee, Tim (June 1999). *Hypertext Transfer Protocol -- HTTP/1.1* (https://tools.ietf.org/html/rfc2616). IETF. pp. 13, 19–20, 37, 129. doi:10.17487/RFC2616 (http://dx.doi.org/10.17487%2FRFC2616). RFC 2616. https://tools.ietf.org/html/rfc2616. Retrieved 2016-10-16 "... HTTP communication usually takes place over TCP/IP connections. The default port is TCP 80 ..."
46. Fielding, Roy T.; Reschke, Julian F., eds. (June 2014). *Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing* (https://tools.ietf.org/html/rfc7230). IETF. pp. 11, 17, 19, 42–43, 50. doi:10.17487/RFC7230 (http://dx.doi.org/10.17487%2FRFC7230). RFC 7230. https://tools.ietf.org/html/rfc7230. Retrieved 2016-10-16
47. Belshe, Mike; Peon, Roberto (May 2015). "Starting HTTP/2" (https://tools.ietf.org/html/rfc7540#section-3). In Thomson, Martin. *Hypertext Transfer Protocol Version 2 (HTTP/2)* (https://tools.ietf.org/html/rfc7540). IETF. p. 7. sec. 3. doi:10.17487/RFC7540 (http://dx.doi.org/10.17487%2FRFC7540). RFC 7540. https://tools.ietf.org/html/rfc7540#section-3. Retrieved 2016-10-16 "... HTTP/2 uses the same "http" and "https" URI schemes used by HTTP/1.1. HTTP/2 shares the same default port numbers: 80 for "http" URIs and 443 for "https" URIs. ..."
48. Kohl, John; Neuman, B. Clifford (September 1993). "IP transport" (https://tools.ietf.org/html/rfc1510#section-8.2.1). *The Kerberos Network Authentication Service (V5)* (https://tools.ietf.org/html/rfc1510). IETF. pp. 81–82. sec. 8.2.1. doi:10.17487/RFC1510 (http://dx.doi.org/10.17487%2FRFC1510). RFC 1510. https://tools.ietf.org/html/rfc1510#section-8.2.1. Retrieved 2016-10-16 "... When contacting a Kerberos server (KDC) ... the client shall send a UDP datagram containing only an encoding of the request to port 88 (decimal) at the KDC's IP address ..."
49. Neuman, Clifford; Yu, Tom; Hartman, Sam; Raeburn, Kenneth (July 2005). *The Kerberos Network Authentication Service (V5)* (https://tools.ietf.org/html/rfc4120). Acknowledgements to John Kohl et al. in section 11 "Acknowledgements", pages 121–122. IETF. pp. 102–103, 105. doi:10.17487/RFC4120 (http://dx.doi.org/10.17487%2FRFC4120). RFC 4120. https://tools.ietf.org/html/rfc4120. Retrieved 2016-10-16 "... Kerberos servers (KDCs) supporting IP transports MUST accept TCP... UDP requests and SHOULD listen for them on port 88 (decimal) ..."

50. Cass, D. E.; Rose, M. T. (April 1986). *ISO Transport Services on Top of the TCP* (https://tools.ietf.org/html/rfc983). IETF. pp. 5, 8, 12–13, 23–24. doi:10.17487/RFC0983 (http://dx.doi.org/10.17487%2FRFC0983). RFC 983. https://tools.ietf.org/html/rfc983. Retrieved 2016-10-17. "... A TSAP server begins by LISTENing on TCP port 102. ..."
51. Rose, Marshall T.; Cass, Dwight E. (May 1987). *ISO Transport Service on top of the TCP Version: 3* (https://tools.ietf.org/html/rfc1006). IETF. pp. 1, 13. doi:10.17487/RFC1006 (http://dx.doi.org/10.17487%2FRFC1006). STD 35. RFC 1006. https://tools.ietf.org/html/rfc1006. Retrieved 2016-10-17. "... TCP port 102 is reserved for hosts which implement this standard. ..."
52. Hedberg, Roland; Pomes, Paul (September 1998). "Basic Operation" (https://tools.ietf.org/html/rfc2378#section-2). *The CCSO Nameserver (Ph) Architecture* (https://tools.ietf.org/html/rfc2378). IETF. p. 4. sec. 2. doi:10.17487/RFC2378 (http://dx.doi.org/10.17487%2FRFC2378). RFC 2378. https://tools.ietf.org/html/rfc2378#section-2. Retrieved 2016-10-17. "... Initially, the server host starts the Ph service by listening on TCP port 105. ..."
53. Postel, Jon (November 1982). *The Remote User Telnet Service* (https://tools.ietf.org/html/rfc818#page-1). IETF. p. 1. doi:10.17487/RFC0818 (http://dx.doi.org/10.17487%2FRFC0818). RFC 818. https://tools.ietf.org/html/rfc818#page-1. Retrieved 2016-10-17. "... the specific service of User Telnet may be accessed (on hosts that choose to provide it) by opening a connection to port 107 (153 octal). ..."
54. Butler, M.; Postel, J.; Chase, D.; Goldberger, J.; Reynolds, J. K. (February 1985). *Post Office Protocol: Version 2* (https://tools.ietf.org/html/rfc937#page-1). IETF. p. 1. doi:10.17487/RFC0937 (http://dx.doi.org/10.17487%2FRFC0937). RFC 937. https://tools.ietf.org/html/rfc937#page-1. Retrieved 2016-10-17. "... This protocol assumes a reliable data stream such as provided by TCP or any similar protocol. When TCP is used, the POP2 server listens on port 109 ..."
55. Rose, Marshall (November 1988). *Post Office Protocol: Version 3* (https://tools.ietf.org/html/rfc1081). IETF. pp. 2, 13. doi:10.17487/RFC1081 (http://dx.doi.org/10.17487%2FRFC1081). RFC 1081. https://tools.ietf.org/html/rfc1081. Retrieved 2016-10-17. "... the server host starts the POP3 service by listening on TCP port 110. ..."
56. Myers, John G.; Rose, Marshall T. (May 1996). *Post Office Protocol - Version 3* (https://tools.ietf.org/html/rfc1939). IETF. pp. 3, 19. doi:10.17487/RFC1939 (http://dx.doi.org/10.17487%2FRFC1939). STD 53. RFC 1939. https://tools.ietf.org/html/rfc1939. Retrieved 2016-10-17. "... the server host starts the POP3 service by listening on TCP port 110. ..."
57. "Protocol" (https://tools.ietf.org/html/rfc5798#section-5.1.1.4). *Virtual Router Redundancy Protocol (VRRP) Version 3 for IPv4 and IPv6* (https://tools.ietf.org/html/rfc5798). Acknowledgements in section 7, "Contributors and Acknowledgments", page 34. IETF. March 2010. p. 16. sec. 5.1.1.4. doi:10.17487/RFC5798 (http://dx.doi.org/10.17487%2FRFC5798). RFC 5798. https://tools.ietf.org/html/rfc5798#section-5.1.1.4. Retrieved 2017-02-28. "... The IPv4 protocol number assigned by the IANA for VRRP is 112 (decimal). ..."
58. St. Johns, Michael C. (February 1993). "Overview" (https://tools.ietf.org/html/rfc1413#section-2). *Identification Protocol* (https://tools.ietf.org/html/rfc1413). Acknowledgement is given to Dan Bernstein in section 7, "Acknowledgements", page 8. IETF. p. 113. sec. 2. doi:10.17487/RFC1413 (http://dx.doi.org/10.17487%2FRFC1413). RFC 1413. https://tools.ietf.org/html/rfc1413#section-2. Retrieved 2016-10-17. "... The Identification Protocol (a.k.a., "ident", a.k.a., "the Ident Protocol") ... listens for TCP connections on TCP port 113 (decimal). ..."
59. St. Johns, Michael C. (January 1985). *Authentication Server* (https://tools.ietf.org/html/rfc931#page-1). IETF. p. 1. doi:10.17487/RFC0931 (http://dx.doi.org/10.17487%2FRFC0931). RFC 931. https://tools.ietf.org/html/rfc931#page-1. Retrieved 2016-10-17. "... The Authentication Server Protocol provides a means to determine the identity of a user of a particular TCP connection. ... A server listens for TCP connections on TCP port 113 (decimal). ..."
60. Lottor, Mark K. (September 1984). Postel, Jon. ed. *Simple File Transfer Protocol* (https://tools.ietf.org/html/rfc913#page-1). IETF. p. 1. doi:10.17487/RFC0931 (http://dx.doi.org/10.17487%2FRFC0931). RFC 913. https://tools.ietf.org/html/rfc913#page-1. Retrieved 2016-10-17. "... SFTP is used by opening a TCP connection to the remote hosts' SFTP port (115 decimal). ..."
61. Kantor, Brian; Lapsley, Phil (February 1986). *Network News Transfer Protocol* (https://tools.ietf.org/html/rfc977). IETF. pp. 5, 20–23. doi:10.17487/RFC0977 (http://dx.doi.org/10.17487%2FRFC0977). RFC 977. https://tools.ietf.org/html/rfc977. Retrieved 2016-10-17. "... NNTP specifies a protocol for the distribution, inquiry, retrieval, and posting of news articles ... When used via Internet TCP, the contact port assigned for this service is 119. ..."
62. Feather, Clive D.W. (October 2006). "Reading and Transit Servers" (https://tools.ietf.org/html/rfc3977#section-3.4.1). *Network News Transfer Protocol (NNTP)* (https://tools.ietf.org/html/rfc3977). Acknowledgements to NNTP Working Group (Russ Allbery, Ned Freed), Brian Kantor, Phil Lapsley et al.) in section 13, "Acknowledgements", pages 107–109. IETF. p. 21. sec. 3.4.1. doi:10.17487/RFC3977 (http://dx.doi.org/10.17487%2FRFC3977). RFC 3977. https://tools.ietf.org/html/rfc3977#section-3.4.1. Retrieved 2016-10-17. "... Network News Transfer Protocol (NNTP) ... is used for the distribution, inquiry, retrieval, and posting of Netnews articles using a reliable stream-based mechanism. ... The official TCP port for the NNTP service is 119. ..."
63. "COM Fundamentals - Guide - COM Clients and Servers - Inter-Object Communications - Microsoft RPC" (http://msdn2.microsoft.com/en-us/library/ms691207(VS.85).aspx). microsoft.com. Retrieved 2014-05-27.

64. NetBIOS Working Group (March 1987). *Protocol standard for a NetBIOS service on a TCP/UDP transport: Concepts and methods* (https://tools.ietf.org/html/rfc1001). Acknowledgements to Internet Activities Board's End-to-End Services Task Force et al. in section 2, "Acknowledgements", page 6. IETF. doi:10.17487/RFC1001 (http://dx.doi.org/10.17487%2FRFC1001). STD 19. RFC 1001. https://tools.ietf.org/html/rfc1001. Retrieved 2016-10-17.
65. NetBIOS Working Group (March 1987). *Protocol standard for a NetBIOS service on a TCP/UDP transport: Detailed specifications* (https://tools.ietf.org/html/rfc1002). Acknowledgements to Internet Activities Board in section 2, "Acknowledgements", page 4. IETF. doi:10.17487/RFC1002 (http://dx.doi.org/10.17487%2FRFC1002). STD 19. RFC 1002. https://tools.ietf.org/html/rfc1002. Retrieved 2016-10-17.
66. Crispin, Mark R. (March 2003). *INTERNET MESSAGE ACCESS PROTOCOL - VERSION 4rev1* (https://tools.ietf.org/html/rfc3501). IETF. doi:10.17487/RFC3501 (http://dx.doi.org/10.17487%2FRFC3501). RFC 3501. https://tools.ietf.org/html/rfc3501. Retrieved 2016-10-17. "... The Internet Message Access Protocol ... allows a client to access and manipulate electronic mail messages on a server ... The IMAP4rev1 protocol assumes a reliable data stream such as that provided by TCP. When TCP is used, an IMAP4rev1 server listens on port 143. ..."
67. DeSchon, A.; Braden, R. (August 1988). *Background File Transfer Program (BFTP)* (https://tools.ietf.org/html/rfc1068). IETF. pp. 4, 14, 20, 24. doi:10.17487/RFC1068 (http://dx.doi.org/10.17487%2FRFC1068). RFC 1068. https://tools.ietf.org/html/rfc1068. Retrieved 2016-10-17. "... The BFTP program ... can be executed as a remotely-accessible service that can be reached via a Telnet connection to the BFTP well-known port (152). ..."
68. Davin, J.; Case, J.; Fedor, M.; Schoffstall, M. (November 1987). "The Authentication Protocol" (https://tools.ietf.org/html/rfc1028#section-4). *Simple Gateway Monitoring Protocol* (https://tools.ietf.org/html/rfc1028). IETF. p. 10. sec. 4. doi:10.17487/RFC1028 (http://dx.doi.org/10.17487%2FRFC1028). RFC 1028. https://tools.ietf.org/html/rfc1028#section-4. Retrieved 2016-10-17. "... This memo defines a simple application-layer protocol by which management information for a gateway may be inspected or altered by logically remote users. An authentication protocol entity responds to protocol messages received at UDP port 153 on the host with which it is associated. ..."
69. Lambert, M. (June 1988). *PCMAIL: A distributed mail system for personal computers* (https://tools.ietf.org/html/rfc1056#page-8). IETF. p. 8. doi:10.17487/RFC1056 (http://dx.doi.org/10.17487%2FRFC1056). RFC 1056. https://tools.ietf.org/html/rfc1056#page-8. Retrieved 2016-10-17. "... Pcmail is a distributed mail system providing mail service to an arbitrary number of users ... The TCP contact port for DMSP has been designated 158. ..."
70. Case, J.; Fedor, M.; Schoffstall, M.; Davin, C. (May 1990). "Protocol Specification" (https://tools.ietf.org/html/rfc1157#section-4). *Simple Network Management Protocol (SNMP)* (https://tools.ietf.org/html/rfc1157). Acknowledgements to IETF SNMP Extensions working group in section 6, "Acknowledgements", page 33. IETF. p. 15. sec. 4. doi:10.17487/RFC1157 (http://dx.doi.org/10.17487%2FRFC1157). RFC 1157. https://tools.ietf.org/html/rfc1157#section-4. Retrieved 2016-10-17. "... A protocol entity receives messages at UDP port 161 on the host ... Messages which report traps should be received on UDP port 162 for further processing. ..."
71. "Understanding Simple Network Management Protocol (SNMP) Traps" (http://www.cisco.com/c/en/us/support/docs/ip/simple-network-management-protocol-snmp/7244-snmp-trap.html). Support. *Cisco* (published 2006-10-10). n.d. Archived (https://web.archive.org/web/20161017190214/https://www.cisco.com/c/en/us/support/docs/ip/simple-network-management-protocol-snmp/7244-snmp-trap.html) from the original on 2016-10-17. Retrieved 2016-10-17.
72. Packard, Keith (2004). *X Display Manager Control Protocol* (https://www.x.org/releases/X11R7.6/doc/libXdmcp/xdmcp.html) (Version 1.1 ed.). The Open Group. Archived (https://web.archive.org/web/20160109051239/http://www.x.org/releases/X11R7.6/doc/libXdmcp/xdmcp.html) from the original on 2016-01-09. Retrieved 2016-10-17. "... The purpose of the X Display Manager Control Protocol (XDMCP) is to provide a uniform mechanism for an autonomous display request login service from a remote host. ... When XDMCP is implemented on top of the Internet User Datagram Protocol (UDP), port number 177 is to be used. ..."
73. Rekhter, Yakov; Li, Tony; Hares, Susan, eds. (January 2006). *A Border Gateway Protocol 4 (BGP-4)* (https://tools.ietf.org/html/rfc4271). Acknowledgements to Kirk Lougheed et al. in section 2, "Acknowledgements", pages 6–7. IETF. pp. 8, 47–48, 51–52. doi:10.17487/RFC4271 (http://dx.doi.org/10.17487%2FRFC4271). RFC 4271. https://tools.ietf.org/html/rfc4271. Retrieved 2016-10-17. "... BGP listens on TCP port 179. ..."
74. Hartmann, Hartmann (August 2014). *Default Port for Internet Relay Chat (IRC) via TLS/SSL* (https://tools.ietf.org/html/rfc7194#page-2). IETF. p. 2. doi:10.17487/RFC7194 (http://dx.doi.org/10.17487%2FRFC7194). RFC 7194. https://tools.ietf.org/html/rfc7194#page-2. Retrieved 2016-10-06. " Although system port assignments exist for IRC traffic that is plain text (TCP/UDP port 194) or TLS/SSL encrypted (TCP/UDP port 994)"...
75. Rose, Marshall T. (May 1991). "Mapping onto the TCP" (https://tools.ietf.org/html/rfc1227#section-3.3.1). *SNMP MUX Protocol and MIB* (https://tools.ietf.org/html/rfc1227). Acknowledgements to Jeffrey S. Case et al. in section 5 "Acknowledgements", page 12. IETF. p. 8. sec. 3.3.1. doi:10.17487/RFC1227 (http://dx.doi.org/10.17487%2FRFC1227). RFC 1227. https://tools.ietf.org/html/rfc1227#section-3.3.1. Retrieved 2016-10-27. "... When using the TCP to provide the transport-backing for the SMUX protocol, the SNMP agent listens on TCP port 199. ..."
76. "README.smux" (http://www.net-snmp.org/docs/README.smux.html). *Net-SNMP* (published 2011-05-26). n.d. Archived (https://web.archive.org/web/20161027014740/http://www.net-snmp.org/docs/README.smux.html) from the original on 2016-10-27. Retrieved 2016-10-27. "... SMUX is the snmp multiplexing protocol (RFC 1227). It can be used by an snmp agent to query variables maintained by another user-level process. ..."

77. "Virus Alerts -- SecureCast FAQ" (https://web.archive.org/web/20000303111811/http://www.nai.com/asp_set/anti_virus/alerts/faq.asp). *nai.com*. Santa Clara, CA, USA: Network Associates, Inc., now McAfee. 2000. Archived from the original (http://www.nai.com/asp_set/anti_virus/alerts/faq.asp) on 2000-03-03. Retrieved 2013-10-26.
78. "RFC 1504 - Appletalk Update-Based Routing Protocol: Enhanced App" (http://www.faqs.org/rfcs/rfc1504.html). *faqs.org*. Retrieved 16 March 2015.
79. "RFC 1340, Assigned Numbers" (http://www.ietf.org/rfc/rfc1340.txt). IETF. Retrieved 2014-05-27.
80. Zwicky, Elizabeth D.; Cooper, Simon; Chapman, D. Brent (June 2000) [1st pub. 1995]. "Internet Message Access Protocol (IMAP)" (http://docstore.mik.ua/orelly/networking_2ndEd/fire/ch16_07.htm). *Building Internet Firewalls* (http://docstore.mik.ua/orelly/networking_2ndEd/fire/) (Second ed.). O'Reilly. 16.7. ISBN 1-56592-871-7. Archived (https://web.archive.org/web/20161027024428/http://docstore.mik.ua/orelly/networking_2ndEd/fire/ch16_07.htm) from the original on 2016-10-27. Retrieved 2016-10-27. "... IMAP over SSL currently uses port 993, but an earlier convention uses port 585. ..."
81. "RFC 4409, "Message Submission for Mail"" (http://www.ietf.org/rfc/rfc4409.txt). IETF. Retrieved 2014-05-27.
82. "RFC 3620, The TUNNEL Profile" (http://www.ietf.org/rfc/rfc3620.txt). IETF. Retrieved 2014-05-27.
83. INTERNET DRAFT, DHCP Failover Protocol (http://www.ietf.org/proceedings/04mar/I-D/draft-ietf-dhc-failover-12.txt) (expired: September 2003)
84. "RFC 3632, VeriSign Registry Registrar Protocol (RRP) Version 2.0.0" (http://tools.ietf.org/rfc/rfc3632.txt). IETF. Retrieved 2014-05-27.
85. "IEEE Standard (1244.3-2000) for Media Management System (MMS) Media Management Protocol (MMP)" (http://standards.ieee.org/reading/ieee/std_public/new_desc/storage/1244.3-2000.html). IEEE. 2001-04-26. Retrieved 2014-05-27.
86. "Integrated Virtualization Manager on IBM System p5" (http://www.redbooks.ibm.com/redpapers/pdfs/redp4061.pdf) (PDF). IBM. Retrieved 2014-05-27.
87. "IEEE Standard (1244.2-2000) for Media Management Systems (MMS) Session Security, Authentication, Initialization Protocol (SSAIP)" (http://standards.ieee.org/reading/ieee/std_public/new_desc/storage/1244.2-2000.html). IEEE. 2000-12-07. Retrieved 2014-05-27.
88. "RFC 4204, Link Management Protocol" (http://www.ietf.org/rfc/rfc4204.txt). IETF. Retrieved 2014-05-27.
89. "RFC 3981, IRIS: The Internet Registry Information Service (IRIS) Core Protocol" (http://tools.ietf.org/rfc/rfc3981.txt). IETF. Retrieved 2014-05-27.
90. Internet Registry Information Service (IRIS) (http://www.verisign.com/research/Internet_Registry_Information_Service/index.html) Archived (https://web.archive.org/web/20090201065757/http://www.verisign.com/research/Internet_Registry_Information_Service/index.html) February 1, 2009, at the Wayback Machine.
91. "Internet-Draft, Using the Internet Registry Information Service (IRIS) over the Blocks Extensible Exchange Protocol (BEEP)" (http://www.ietf.org/proceedings/02nov/I-D/draft-ietf-crisp-iris-beep-00.txt). IETF. Retrieved 2014-05-27.
92. "Tag Distribution Protocol Internet-Draft" (http://tools.ietf.org/html/draft-doolan-tdp-spec-00). IETF. 1997-05-27. Retrieved 2014-05-27.
93. "United States Patent 7286529, Discovery and tag space identifiers in a tag distribution protocol (TDP)" (http://www.patentstorm.us/patents/7286529-claims.html). Patentstorm.us. Retrieved 2014-05-27.
94. Cisco IOS Software Release 11.1CT New Features (http://www.cisco.com/en/US/products/sw/iosswrel/ps1820/prod_bulletin09186a0080091d01.html) Archived (https://web.archive.org/web/20120118075409/http://www.cisco.com/en/US/products/sw/iosswrel/ps1820/prod_bulletin09186a0080091d01.html) January 18, 2012, at the Wayback Machine.
95. Cisco IOS Software Releases 12.0 S, MPLS Label Distribution Protocol (LDP) (http://www.ciscosystems.ch/en/US/docs/ios/12_0s/feature/guide/fsldp22.html#wp1517250)
96. "ARRANGEMENT IN A ROUTER OF A MOBILE NETWORK FOR OPTIMIZING USE OF MESSAGES CARRYING REVERSE ROUTING HEADERS" (https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2004056056). WIPO (published 2004-07-01). 2003-12-11. Archived (https://archive.fo/20170519181328/https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2004056056) from the original on 2017-05-19. Retrieved 2017-05-19.
97. "Certificate Management Protocol (CMP)" (http://wiki.wireshark.org/CMP). Retrieved 2012-03-18.
98. "Setting up a socket policy file server" (https://www.adobe.com/devnet/flashplayer/articles/socket_policy_files.html) Adobe.com. 2008-04-14 Retrieved 2014-05-27.
99. "vCenter Server 4.1 network port requirements" (https://kb.vmware.com/kb/1022256). *VMware Knowledge Base*. 2014-07-29. Archived (https://web.archive.org/web/20161006035518/https://kb.vmware.com/kb/1022256) from the original on 2016-10-06. Retrieved 2016-10-06.
100. "Required ports for configuring an external firewall to allow ESX/ESXi and vCenter Server traffic" (https://kb.vmware.com/kb/1005189). *VMware Knowledge Base*. 2014-08-01. Archived (https://web.archive.org/web/20161006035808/https://kb.vmware.com/kb/1005189) from the original on 2016-10-06. Retrieved 2016-10-06.
101. "Using rndc" (https://www.centos.org/docs/5/html/Deployment_Guide-en-US/s1-bind-rndc.html). *Red Hat Enterprise Linux Deployment Guide* (https://www.centos.org/docs/5/html/Deployment_Guide-en-US/) (5.0.0-19 ed.). Red Hat (published 2007-01-23). 2006. 16.4. Archived (https://web.archive.org/web/20161006041539/https://www.centos.org/docs/5/html/Deployment_Guide-en-US/s1-bind-rndc.html) from the original on 2016-10-06. Retrieved 2016-10-06. "... default TCP port 953 ... allow `rndc` commands ..."

102. `rndc(8) (https://linux.die.net/man/8/rndc)` – Linux Administration and Privileged Commands Manual. "... TCP port ... BIND 9's default control channel port, 953. ...".
103. "NG FAQ - Ports used by Check Point VPN-1/FireWall-1 Next Generation" (http://www.fw-1.de/aerasec/ng/ports-ng.html). *FW-1.de* (published 2007-01-02). n.d. Archived (http://www.fw-1.de/aerasec/ng/ports-ng.html) from the original on 2016-10-06. Retrieved 2016-10-06. "... 981 /tcp ... remote administration from external using HTTPS ...".
104. RFC 4707
105. "Installation" (http://www.scimore.com/Documentation/Installation.html). *Scimore Documentation* (http://www.scimore.com/Documentation/) n.d. Archived (https://web.archive.org/web/20161006051311/http://www.scimore.com/Documentation/Installation.html) from the original on 2016-10-06. Retrieved 2016-10-06. "... start ScimoreDb manager ... (default TCP connection: localhost, port: 999). ...".
106. "Appendix A. TCP Ports Used by ThinLinc" (https://www.cendio.com/resources/docs/tag/tcp-ports.html). *ThinLinc Administrator's Guide for ThinLinc 4.6.0* (https://www.cendio.com/resources/docs/tag/). Cendio AB (published 2016). n.d. Archived (https://web.archive.org/web/20161006052247/https://www.cendio.com/resources/docs/tag/tcp-ports.html) from the original on 2016-10-06. Retrieved 2016-10-06. "... By default, ThinLinc's web-based administration interface is available on TCP port 1010. ...".
107. Carpenter, Brian; Dan, Wing; Jiang, Sheng Jiang (October 2012). Despres, Remi. ed. *Native IPv6 behind IPv4-to-IPv4 NAT Customer Premises Equipment (6a44)* (https://tools.ietf.org/html/rfc6751). IETF. doi:10.17487/RFC6751 (http://dx.doi.org/10.17487%2FRFC6751). ISSN 2070-1721 (https://www.worldcat.org/issn/2070-1721). RFC 6751. https://tools.ietf.org/html/rfc6751. Retrieved 2016-08-28. Archived (https://web.archive.org/web/20160828112311/https://tools.ietf.org/html/rfc6751) 2016-08-28 at the Wayback Machine.
108. "Firewall, Proxy, Router and Port Configuration for Blizzard Games" (https://web.archive.org/web/20120808071221/http://us.battle.net/support/en/article/firewall-configuration-for-blizzard-games#4). Blizzard Entertainment. 2012-12-07. Archived from the original (https://us.battle.net/support/en/article/firewall-configuration-for-blizzard-games#4) on 2012-08-08. Retrieved 2013-04-02.
109. "Dell OpenManage Version 8.0.1 Port Information Guide" (http://topics-cdn.dell.com/pdf/dell-opnmang-srvr-admin-v8.0.1_Setup%20Guide_en-us.pdf) (PDF). *Dell*. 2014. p. 15. Retrieved 2016-08-27.
110. "Basic command line options" (http://www.cstr.ed.ac.uk/projects/festival/manual/festival_7.html#SEC19). *The Festival Speech Synthesis System – System documentation* (http://www.cstr.ed.ac.uk/projects/festival/manual/). *The Centre for Speech Technology Research* (1.4 ed.). University of Edinburgh (published 1999-06-19). 1999-06-17. 7.1. Archived (https://web.archive.org/web/20160828142032/http://www.cstr.ed.ac.uk/projects/festival/manual/festival_7.html) from the original on 2016-08-28. Retrieved 2016-10-27. "... Festival waits for clients on a known port (the value of `server_port`, default is 1314). ..."
111. Muir, Jeff. "Two Port ICA" (https://web.archive.org/web/20120615184554/http://citrixblogger.org/2008/03/14/two-port-ica). p. 1. Archived from the original (http://citrixblogger.org/2008/03/14/two-port-ica/) on 15 June 2012. Retrieved 2008-03-14.
112. "Open communication ports required by IBM Tivoli Storage Manager for Virtual Environments 6.4" (https://www-01.ibm.com/support/docview.wss?uid=swg21625297). Support. *IBM*. IBM. 2016-05-09. Archived (https://web.archive.org/web/20160827134317/https://www-01.ibm.com/support/docview.wss?uid=swg21625297) from the original on 2016-08-27. Retrieved 2016-08-27.
113. "Network ports and URLs that are used by Windows Live Messenger" (https://support.microsoft.com/kb/927847). *Support*. Microsoft.
114. "Recommended Port Numbers" (https://docs.oracle.com/cd/B19306_01/network.102/b14213/protocoladd.htm#i470539). Oracle. Retrieved 2015-11-27.
115. Hilker, Steve (2013-03-13). "Oracle Default Port Numbers" (http://www.toadworld.com/platforms/oracle/w/wiki/1635.oracle-default-port-numbers). *Oracle Wiki*. Toad World. Archived (https://web.archive.org/web/20160827141242/http://www.toadworld.com/platforms/oracle/w/wiki/1635.oracle-default-port-numbers) from the original on 2016-08-27. Retrieved 2016-08-27.
116. "Start Network Server" (https://db.apache.org/derby/papers/DerbyTut/ns_intro.html). *The Apache DB Project*. Derby Tutorial. Apache Software Foundation (published 2016-03-23). 2008-04-30. Archived (https://web.archive.org/web/20160827142602/https://db.apache.org/derby/papers/DerbyTut/ns_intro.html) from the original on 2016-08-27. Retrieved 2016-08-27. "Start the Network server by executing the startNetworkServer.bat (Windows) or startNetworkServer (UNIX) script. This will start the Network Server up on port 1527 ...".
117. "Discovery / Autoconf" (http://git.eclipse.org/c/tcf/org.eclipse.tcf.git/plain/docs/TCF_UDP_Discovery.html?id=3fa0b5f160717ba5a38cf6f80295d5b32cfaf23c). *Eclipse*. Retrieved 2013-10-08.
118. "Pervasive PSQL Vx Server 11 SP3 Release Notes" (http://www.pervasive.com/Portals/55/documents/psqlVx/PSQLVx_SP3_readme.htm). *Pervasive PSQL*. 2013. Retrieved 2016-08-27. "... Pervasive PSQL Vx Server 11 SP3 communicates via the following ones: 3351 for the transactional interface, 1583 for the relational interface, and 139 for named pipes. ..."

119. "FAQ: Frequently Asked Questions" (http://www.isketch.net/instructions/help.shtml). *iSketch*. n.d. Connection problems. Archived (https://web.archive.org/web/20160827152128/http://www.isketch.net/instructions/help.shtml) from the original on 2016-08-27. Retrieved 2016-08-27. "... allow TCP/IP connections on port 1626 & 1627 (1627 only needed for sending sketches.)"
120. "RADIUS Overview" (http://www.juniper.net/techpubs/software/aaa_802/sbrc/sbrc70/sw-sbrc-admin/html/Concepts2.html). *juniper.net*. Retrieved 16 March 2015.
121. DeKok, Alan (May 2012). "Assigned Ports for RADIUS/TCP" (https://tools.ietf.org/html/rfc6613#page-7). *RADIUS over TCP* (https://tools.ietf.org/html/rfc6613). IETF. p. 7. doi:10.17487/RFC6613 (http://dx.doi.org/10.17487%2FRFC6613). ISSN 2070-1721 (https://www.worldcat.org/issn/2070-1721). RFC 6613. https://tools.ietf.org/html/rfc6613#page-7.
122. "P4PORT" (https://www.perforce.com/perforce/r12.1/manuals/cmdref/env.P4PORT.html). *Perforce*. 2012. Archived (https://web.archive.org/web/20160827155413/https://www.perforce.com/perforce/r12.1/manuals/cmdref/env.P4PORT.html) from the original on 2016-08-27. Retrieved 2016-08-27. "... Valid communications protocols are `tcp` (plaintext over TCP/IP) or `ssl` (SSL over TCP/IP)."
123. "How to troubleshoot the Key Management Service (KMS)" (https://technet.microsoft.com/en-us/library/ee939272.aspx). *TechNet*. Microsoft. n.d. Archived (https://web.archive.org/web/20160325190150/https://technet.microsoft.com/en-us/library/ee939272.aspx) from the original on 2016-03-25. Retrieved 2016-08-27. "... 1688 is the default TCP port used by the clients to connect to the KMS host. ..".
124. Patel, Baiju V.; Aboda, Bernard; Dixon, William; Zorn, Glen; Booth, Skip (November 2001). *Securing L2TP using IPsec* (https://tools.ietf.org/html/rfc3193). Thanks to Gurdeep Singh Pall, David Eitelbach, Peter Ford, Sanjay Anand, John Richardson, Rob Adams. IETF. pp. 8–14, 23–26. doi:10.17487/RFC3193 (http://dx.doi.org/10.17487%2FRFC3193). RFC 3193. https://tools.ietf.org/html/rfc3193. Retrieved 2016-08-28
125. Jleeke; Tickner, Patrick (2006-10-04). "Linux Server" (http://manual.americasarmy.com/index.php/Linux_Server). *AAManual (America's Army Game Manual)*. Retrieved 2016-08-27. "... The port the server will listen on. The default port is 1716."
126. "Ports used by some ZENworks products" (https://www.novell.com/support/kb/doc.php?id=3880659). *Novell Support Knowledgebase*. Micro Focus (published 2007-04-18). 2012-04-30. Archived (https://web.archive.org/web/20160827170337/https://www.novell.com/support/kb/doc.php?id=3880659) from the original on 2016-08-27. Retrieved 2016-08-27.
127. "TCP and UDP Ports Used by ZENworks Primary Servers" (https://www.novell.com/documentation/zenworks114/zen11_sys_servers/data/b18151xi.html?view=print). *ZENworks 11 SP4 Primary Server and Satellite Reference*. Novell (published 2016-05-31). 2016-06-16. Archived (https://web.archive.org/web/20160827165833/https://www.novell.com/documentation/zenworks114/zen11_sys_servers/data/b18151xi.html?view=print) from the original on 2016-08-27. Retrieved 2016-08-07.
128. "Configuration" (http://nodered.org/docs/configuration). *Node-RED Documentation* (http://nodered.org/docs/). IBM Emerging Technologies. n.d. Archived (https://web.archive.org/web/20160909034037/http://nodered.org/docs/configuration) from the original on 2016-09-09. Retrieved 2016-09-09.
129. "Ports and firewalls" (https://helpx.adobe.com/adobe-media-server/kb/ports-firewalls-flash-media-server.html). Support. *Adobe* (published 2015-12-14). 2015-02-10. Archived (https://web.archive.org/web/20160827175802/https://helpx.adobe.com/adobe-media-server/kb/ports-firewalls-flash-media-server.html) from the original on 2016-08-27. Retrieved 2016-08-27. "... Flash Media Server listens for RTMP/E requests on port 1935/TCP... Flash Media Server listens for RTMFP requests on port 1935/UDP..."
130. http://www.eochu.com/dl/Artemis_Manual_latest.pdf
131. "Which ports are required to play Civilization 4 online?" (http://support.2k.com/hc/en-us/articles/201333253-Which-ports-are-required-to-play-Civilization-4-online-). Support. *2K*. 2016-07-17. Archived (https://web.archive.org/web/20160827185725/http://support.2k.com/hc/en-us/articles/201333253-Which-ports-are-required-to-play-Civilization-4-online-) from the original on 2016-08-27. Retrieved 2016-08-27.
132. "How to Log in to Your Server or Account" (https://documentation.cpanel.net/display/CKB/How%2Bto%2BLog%2Bin%2Bto%2BYour%2BServer%2Bor%2BAccount). *cPanel Knowledge Base* (published 2016-08-22). 2014-06-24. Archived (https://web.archive.org/web/20160827190806/https://documentation.cpanel.net/display/CKB/How%2Bto%2BLog%2Bin%2Bto%2BYour%2BServer%2Bor%2BAccount) from the original on 2016-08-27. Retrieved 2016-08-27.
133. "If you're not getting Apple push notifications" (https://support.apple.com/en-us/HT203609). Support. *Apple* (published 2016-04-15). 2014-11-08. Archived (https://web.archive.org/web/20160827195033/https://support.apple.com/en-us/HT203609) from the original on 2016-08-27. Retrieved 2016-08-27.
134. "Installation manual and user guide Remote administrator 5" (http://download.eset.com/manuals/eset_era_5.2_userguide_enu.pdf) (PDF). ESET, spol. s r.o. Retrieved 29 January 2015.
135. "What ports do I need to open in my firewall?" (https://help.directadmin.com/item.php?id=71). *DirectAdmin Knowledge Base*. JBMC Software (published 2011-05-29). n.d. Archived (https://web.archive.org/web/20160827202214/https://help.directadmin.com/item.php?id=71) from the original on 2016-08-27. Retrieved 2016-08-27.
136. "Known multiplayer issues in Halo: Combat Evolved" (https://support.microsoft.com/kb/829469). *Support*. Microsoft.

137. Balderston, David; Boutté, Andy (2016-02-03). "Ghost config.js - Broken Down" (https://www.ghostforbeginners.com/g host-config-js-broken-down/). *Ghost for Beginners* (https://www.ghostforbeginners.com/). Retrieved 2016-08-28. "... This is the port that Ghost is listening on. By default 2368 is used ..."
138. "KGS: Set Preferences" (https://www.gokgs.com/help/setPrefsWin.html). *KGS Go Server*. Archived (https://web.archiv e.org/web/20160827120651/https://www.gokgs.com/help/setPrefsWin.html) from the original on 2016-08-27. Retrieved 2016-08-27. "The TCP/IP port of the KGS server. The default is 2379 ..."
139. Garulli, Luca; Dyer, Kenneth P.J.; Franchini, Roberto (2015-05-13). "OrientDB Server" (http://orientdb.com/docs/2.1/D B-Server.html). *OrientDB Manual – version 2.1.x* (http://orientdb.com/docs/2.1/) (published 2016-05-18). Archived (htt ps://web.archive.org/web/20160828104748/http://orientdb.com/docs/2.1/DB-Server.html) from the original on 2016-08-28. Retrieved 2016-08-28. "... Upon startup, the server runs on port 2424 for the binary protocol and 2480 for the http one. If a port is busy the next free one will be used. The default range is 2424-2430 (binary) and 2480-2490 (http)." ...
140. Hanna, Stephen R.; Patel, Baiju V; Shah, Munil (December 1999). "Protocol Description" (https://tools.ietf.org/html/rfc 2730#section-2.0). *Multicast Address Dynamic Client Allocation Protocol* (https://tools.ietf.org/html/rfc2730). Thanks to Rajeev Byrisetty, Steve Deering, Peter Ford, Mark Handley, Van Jacobson, David Oran, Thomas Pfenning, Dave Thaler, Ramesh Vyaghrapuri and the participants of the IETF. IETF. p. 6. sec. 2.0. doi:10.17487/RFC2730 (http://dx.doi. org/10.17487%2FRFC2730). RFC 2730. https://tools.ietf.org/html/rfc2730#section-2.0. Retrieved 2016-08-28. "... A reserved port number dedicated for MADCAP is used on the server (port number 2535, as assigned by IANA). Any p number may be used on client machines. ..."
141. Hanna, Stephen R.; Patel, Baiju V; Shah, Munil (December 1999). "Protocol Overview" (https://tools.ietf.org/html/rfc2 730#section-1.5). *Multicast Address Dynamic Client Allocation Protocol* (https://tools.ietf.org/html/rfc2730). Thanks to Rajeev Byrisetty, Steve Deering, Peter Ford, Mark Handley, Van Jacobson, David Oran, Thomas Pfenning, Dave Thaler, Ramesh Vyaghrapuri and the participants of the IETF. IETF. p. 3. sec. 1.5. doi:10.17487/RFC2730 (http://dx.doi.org/10. 17487%2FRFC2730). RFC 2730. https://tools.ietf.org/html/rfc2730#section-1.5. Retrieved 2016-08-28. "... All messages are UDP datagrams. ..."
142. "DocCommentXchange" (http://dcx.sybase.com/index.html#sa160/en/dbadmin/serverport-network-conparm.html). *sybase.com*. Retrieved 27 February 2017.
143. "Service Name and Transport Protocol Port Number Registry" (https://www.iana.org/assignments/service-names-port-nu mbers/service-names-port-numbers.xhtml?search=2638). Iana.org. Retrieved 2013-10-26.
144. "NetTestFirewallIssues" (https://wiki.apache.org/spamassassin/NetTestFirewallIssues). *SpamAssassin Wiki*. Apache Software Foundation (published 2009-09-20). n.d. Archived (https://web.archive.org/web/20160828180934/https://wiki apache.org/spamassassin/NetTestFirewallIssues) from the original on 2016-08-28. Retrieved 2016-08-28. "... All the connections are typical TCP client connections ... to port 7 or port 2703 on the razor server."
145. "Overview" (http://xbtt.sourceforge.net/tracker/). *XBT Tracker*. SourceForge. n.d. Archived (https://web.archive.org/we b/20160828134448/http://xbtt.sourceforge.net/tracker/) from the original on 2016-08-28. Retrieved 2016-08-28. "... XBT Tracker listens on port 2710. ..."
146. "Overview" (http://xbtt.sourceforge.net/tracker/). *XBT Tracker*. SourceForge. n.d. Archived (https://web.archive.org/we b/20160828134448/http://xbtt.sourceforge.net/tracker/) from the original on 2016-08-28. Retrieved 2016-08-28. "... An experimental UDP tracker extension is also supported via announce URL `udp://...:2710`. ..."
147. "Ports Used by I2P" (https://geti2p.net/en/docs/ports). *I2P*. December 2015. Archived (https://web.archive.org/web/201 60828135818/https://geti2p.net/en/docs/ports) from the original on 2016-08-28. Retrieved 2016-08-28.
148. "Getting Started with Rails" (http://guides.rubyonrails.org/getting_started.html#starting-up-the-web-server). *Ruby on Rails*. 2012-03-21. Retrieved 2014-05-27.
149. "Documentation - Meteor" (http://docs.meteor.com/#quickstart). *meteor.com*. Retrieved 16 March 2015.
150. "What Ports And Protocols Are Used By Sync?" (https://help.getsync.com/hc/en-us/articles/204754759-What-ports-an -protocols-are-used-by-Sync-). *Sync Help Center*. Resilio. 2016-08-28. Archived (https://web.archive.org/web/2016082 8145924/https://help.getsync.com/hc/en-us/articles/204754759-What-ports-and-protocols-are-used-by-Sync-) from the original on 2016-08-28. Retrieved 2016-08-28. "... Connecting to the tracker server for automatic peer discovery: TCP and UDP, port 3000 ..."
151. "Firewall and connection requirements for the BlackBerry Enterprise Server, BlackBerry Device Service, and Universal Device Service" (http://support.blackberry.com/kb/articleDetail?ArticleNumber=000003735). *Blackberry Knowledge Base* (published 2016-05-19). 2015-08-15. Archived (https://archive.is/20160828181427/http://support.blackberry.com/ kb/articleDetail?ArticleNumber=000003735) from the original on 2016-08-28. Retrieved 2016-08-28. "... On the firewall, verify that port 3101 is open for outbound initiated, bi-directional Transmission Control Protocol (TCP) traffic. ..."
152. "Squid configuration directive http_port" (http://www.squid-cache.org/Doc/config/http_port/). *Squid Documentation* (published 2013-05-09). n.d. Archived (https://web.archive.org/web/20160828182735/http://www.squid-cache.org/Doc/ config/http_port/) from the original on 2016-08-28. Retrieved 2016-08-28. "... Squid normally listens to port 3128 ..."
153. "Eggdrop.conf" (http://eggwiki.org/Eggdrop.conf#Botnet.2FDCC.2FTelnet). *Eggdrop Wiki*. Retrieved 2014-02-20.
154. "CruiseControl.rb – Getting Started" (http://cruisecontrolrb.thoughtworks.com/documentation/getting_started). thoughtworks.com. Retrieved 2014-05-27.

155. "How to change the listening port for Remote Desktop" (http://support.microsoft.com/kb/306759). Microsoft. 2011-05-04. Retrieved 2014-05-27.
156. "RFC 5389: Session Traversal Utilities for NAT (STUN)" (http://tools.ietf.org/html/rfc5389). IETF. Retrieved 2014-05-27.
157. "RFC 5766 - Traversal Using Relays around NAT (TURN): Relay Extensions to Session Traversal Utilities for NAT (STUN)" (http://tools.ietf.org/html/rfc5766). *ietf.org*. Retrieved 16 March 2015.
158. "Test Internet Connection" (http://manuals.playstation.net/document/en/ps4/settings/nw_test.html). *PlayStation®4 User's Guide* (http://manuals.playstation.net/document/en/ps4/). n.d. Archived (https://web.archive.org/web/20170409093602/http://manuals.playstation.net/document/en/ps4/settings/nw_test.html) from the original on 2017-04-09. Retrieved 2017-04-09. "... refer to the port numbers listed below, which are used when you connect your PS4™ system to a PlayStation™Network server."
    - "TCP: 80, 443, 3478, 3479, 3480"
    - "UDP: 3478, 3479"

    " ..."
159. 3 min expected wait time (2013-09-18). "Using Microsoft Outlook Express with Your Email | Go Daddy Help | Go Daddy Support" (http://help.godaddy.com/article/355). Help.godaddy.com. Retrieved 2013-10-08.
160. "IBM U2 product family" (https://web.archive.org/web/20080612215654/http://www-306.ibm.com/software/data/u2/). IBM. 2009-10-01. Archived from the original (http://www-306.ibm.com/software/data/u2/) on June 12, 2008. Retrieved 2014-05-27.
161. "TinTin++ Mud Client Manual - Chat Protocol" (http://tintin.sourceforge.net/manual/chat.php)
162. "IETF Draft of the Minger Email Address Verification Protocol" (http://tools.ietf.org/html/draft-hath****-minger-06#section-2). IETF. Retrieved 2014-05-27.
163. "Service Name and Transport Protocol Port Number Registry" (http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml?search=4190). Iana.org. Retrieved 2013-10-08.
164. "Couch-Potato-Server/Network.java at master · rarcher/Couch-Potato-Server" (https://github.com/rarcher/Couch-Potato-Server/blob/master/Communications%20Protocol/src/codes/soloware/couchpotato/settings/Network.java)
165. "Install and Run NATS Server" (http://nats.io/documentation/tutorials/gnatsd-install/)
166. "Configuration of Orthanc" (http://book.orthanc-server.com/users/configuration.html). *Orthanc Book* (http://book.orthanc-server.com/). 2017 [First published 2015]. Archived (https://web.archive.org/web/20170212134127/http://book.orthanc-server.com/users/configuration.html) from the original on 2017-02-12. Retrieved 2017-02-12. "... The default configuration file would:"
    - "Create a DICOM server with the DICOM AET (Application Entity title) `ORTHANC` that listens on the port 4242."
    - "Create a HTTP server for the REST API that listens on the port 8042."

    " ..."
167. "First steps with Docker" (http://docs.docker.io/en/latest/use/basics/)
168. "Explain how to be able to connect to the Docker API when using Vagrant?" (https://github.com/dotcloud/docker/issues/2280).
169. "Add unix socket and multiple -H" (https://github.com/dotcloud/docker/pull/938)
170. "Opening ports for Viber Desktop" (https://support.viber.com/customer/portal/articles/1506350-opening-ports-for-viber-desktop). *Viber*. Viber Media S.à r.l. Retrieved 13 June 2016.
171. "Service Name and Transport Protocol Port Number Registry" (http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml?search=4307). *www.iana.org*. Retrieved 2016-03-28.
172. "RFC 2167, Referral Whois (RWhois) Protocol" (http://tools.ietf.org/html/rfc2167). IETF. Retrieved 2014-05-27.
173. "Wesk Technical Specs" (http://www.weskapp.com/developers/technical-specifications). Weskapp.com. Retrieved 2014-05-27.
174. "eMule Ports" (http://www.emule-project.net/home/perl/help.cgi?l=1&topic_id=122&rm=show_topic). Emule-project.net. 2007-05-16. Retrieved 2014-05-27.
175. "Port Details - Port 4728" (http://isc.sans.edu/port.html?port=4728). SANS.
176. "GSMTAP - OsmocomBB" (http://bb.osmocom.org/trac/wiki/GSMTAP).
177. "Service Name and Transport Protocol Port Number Registry" (http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml?search=4789). *www.iana.org*. Retrieved 2015-12-04.
178. "FlightGear Howto: Multiplayer" (http://wiki.flightgear.org/Howto:_Multiplayer). flightgear.org. Retrieved 2014-05-27.
179. "PEG Specifications" (https://www.mitn.info/xfer/PublicSolicitation_Docs/SDIR~142085/2-AT%20U-verse%20Encoder%20Requirements.pdf) (PDF). *Michigan Inter-governmental Trade Network*. Jan 2015. Retrieved 8 June 2017. "... TCP port 5000 shall be configured and open inbound through firewalls to the encoder..."
180. ARX Passersystem, Användarmanual (http://www.assa.se/Other/ASSA/Products/Broschyrer%20Svenska/Passersystem-ARX-Passersystem.pdf) Archived (https://web.archive.org/web/20100821032559/http://www.assa.se/Other/ASSA/Products/Broschyrer%20Svenska/Passersystem/ARX-Passersystem.pdf) August 21, 2010, at the Wayback Machine.
181. "How can I troubleshoot my DroboShare?" (http://support.drobo.com/app/answers/detail/a_id/405/~/how-can-i-troubleshoot-my-droboshare%3F). Support.drobo.com. Retrieved 2013-10-08.

182. Hill, Graham; Spiro, Jason, eds. (3 April 2012). "Nmap indicates that "telepathstart" and "telepathattack" are listening on ports 5010 and 5011 of my Linux box. What are these?" (http://security.stackexchange.com/a/13425/11180). *IT Security Stack Exchange* Stack Exchange, Inc. Answer by Graham Hill Retrieved 2012-07-13.
183. "Multiplayer - SRB2 Wiki." SRB2 Wiki. N.p., 13 Mar. 2006. Web. 23 July 2012. <http://wiki.srb2.org/wiki/Multiplayer>.
184. "Symantec Intruder Alert product support" (https://support.symantec.com/en_US/endpoint-protection.51971.html) Symantec. Retrieved 2014-05-27.
185. "Service Name and Transport Protocol Port Number Registry" (http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml?search=5064) Iana.org. Retrieved 2013-12-10.
186. "Service Name and Transport Protocol Port Number Registry" (http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml?search=5065) Iana.org. Retrieved 2013-12-10.
187. "Binary Floor Control Protocol" (http://ietfreport.isoc.org/rfc/rfc4582.txt) Internet Society IETF. November 2006.
188. "IBM Tivoli Netcool/Impact" (https://web.archive.org/web/20080616122132/http://www-306.ibm.com/software/tivoli/products/netcool-impact/) IBM. Archived from the original (http://www-306.ibm.com/software/tivoli/products/netcool-impact/) on June 16, 2008. Retrieved 2014-05-27.
189. "RFC 2107, Ascend Tunnel Management Protocol" (http://tools.ietf.org/html/rfc2167). IETF. Retrieved 2014-05-27.
190. "Port 5172 (tcp/udp)" (http://www.speedguide.net/port.php?port=5172) Retrieved 2016-07-25.
191. "RFC 3920, Extensible Messaging and Presence Protocol (XMPP): Core" (http://tools.ietf.org/html/rfc3920). Tools.ietf.org. Retrieved 2014-05-27.
192. "RFC 6120, Extensible Messaging and Presence Protocol (XMPP): Core" (http://tools.ietf.org/html/rfc6120). IETF. 2003-12-13. Retrieved 2014-05-27.
193. "RFC 5415, Control And Provisioning of Wireless Access Points (CAPWAP) Protocol Specification" (http://tools.ietf.org/html/rfc5415). IETF. 2008-11-10. Retrieved 2014-05-27.
194. "XEP-0124: Bidirectional-streams Over Synchronous HTTP (BOSH) with SSL" (http://xmpp.org/extensions/xep-0124.html). Xmpp.org. Retrieved 2014-05-27.
195. "XEP-0174: Serverless Messaging" (http://xmpp.org/extensions/xep-0174.html) Xmpp.org. Retrieved 2014-05-27.
196. "Kega Fusion Mini-Manual" (https://web.archive.org/web/20131029205026/http://www.arcadezone.org/emulation/genesis/Readme.txt). *arcadezone.org*. Niobium's Arcade Zone. 2010-01-16. Archived from the original (http://www.arcadezone.org/emulation/genesis/Readme.txt) on October 29, 2013. Retrieved 2013-10-26.
197. "Kega Fusion Mini-Manual" (https://web.archive.org/web/20131029201029/http://gamingpwnage.webs.com/PC/archive/fusion_manual.txt) *gamingpwnage.webs.com* GamingPwnage. Archived from the original (http://gamingpwnage.webs.com/PC/archive/fusion_manual.txt) on October 29, 2013. Retrieved 2013-10-26.
198. Miller, Kenneth; Robertson, Kary; Tweedly, Alex; White, Marc (April 1998). "MFTP Architecture" (https://tools.ietf.org/html/draft-miller-mftp-spec-03#section-3). *StarBurst Multicast File Transfer Protocol (MFTP) Specification* (https://tools.ietf.org/html/draft-miller-mftp-spec-03). Acknowledgements to Scott Bradner, Ken Cates, and Tony Speakman. IETF. p. 10. sec. 3. I-D draft-miller-mftp-spec-03. https://tools.ietf.org/html/draft-miller-mftp-spec-03#section-3. Retrieved 2017-05-19. "... IANA has assigned UDP port 5402 for MFTP. Certain MFTP messages must be sent to this port because it will be the only port number known both to the sender (Server) and the receivers (Clients). ..."
199. "Use IT Group - Bouwsoft - Groensoft" (http://www.bouwsoft.be). Bouwsoft.be. Retrieved 2013-10-08.
200. "Firewall Configuration to Allow Client - Server Comms" (http://resourcecenter.controlmicrosystems.com/display/public/CS/Firewall+Configuration+to+Allow+Client+-+Server+Comms;jsessionid=A820B5CA962E638AD0EEA6B31526CB). *Schneider Electric Resource Center*. Retrieved 26 November 2015.
201. "Port Numbers" (http://docs.oracle.com/cd/E14571_01/core.111/e10105/portnums.htm) Docs.oracle.com. Retrieved 2013-10-26.
202. ANSI E1.17-2010
203. pcAnywhere IP port usage (https://support.symantec.com/en_US/article.TECH106675.html)
204. How to change the IP ports that pcAnywhere uses (https://support.symantec.com/en_US/article.TECH107578.html)
205. "AMQP URI Specification" (http://www.rabbitmq.com/uri-spec.html). *www.rabbitmq.com*. GoPivotal, Inc. 2013.
206. "Technet: Using a Firewall with Operations Manager 2007" (http://technet.microsoft.com/en-us/library/cc540431.aspx) Microsoft.
207. "VNC Frequently Asked Questions (FAQ): Q53 Which TCP/IP ports does VNC use?" (http://www.hep.phy.cam.ac.uk/vnc_docs/faq.html#q53) AT&T Laboratories Cambridge. 1999.
208. "TeamViewer 8 Manual Remote Control" (http://www.teamviewer.com/en/res/pdf/TeamViewer8-Manual-RemoteControl-en.pdf) (PDF). *www.teamviewer.com*. TeamViewer GmbH. 2012. p. 68. Retrieved 2013-08-30.
209. "Enter-PSSession" (http://technet.microsoft.com/en-us/library/hh849707.aspx) *www.technet.com*. Microsoft TechNet. 2013. Retrieved 2013-10-31.
210. "vSphere Documentation Center" (https://pubs.vmware.com/vsphere-50/index.jsp?topic=%2Fcom.vmware.vsphere.security.doc_50%2FGUID-ECEA77F5-D38E-4339-9B06-FF9B78E94B68.html) *vmware.com*. Retrieved 16 March 2015.
211. "CVSup.org" (http://www.cvsup.org/faq.html#fwtk). *cvsup.org*. Retrieved 16 March 2015.

212. "Server Configuration" (http://www.objectdb.com/java/jpa/setting/server). *ObjectDB 2.6 Developer's Guide* (http://www.objectdb.com/java/jpa) n.d. Chapter 6. Archived (https://web.archive.org/web/20161121054616/http://www.objectdb.com/java/jpa/setting/server) from the original on 2016-11-21. Retrieved 2016-11-21. "... The port attribute specifies a TPC [*sic*] port on which the server is listening for new connections. Usually the default port 6136 should be specified. ..."
213. "RFC 5424" (http://tools.ietf.org/html/rfc5425). IETF. 2008-11-10. Retrieved 2014-05-27.
214. Mosberger, David (20 Apr 2009). "SANE Unix man page" (http://www.sane-project.org/man/saned.8.html) *SANE - Scanner Access Now Easy*.
215. "Datalogger Support Software" (http://www.campbellsci.com/datalogger-software). Campbellsci.com Retrieved 2014-05-27.
216. Worldwide. "Application-Oriented Networking – Cisco Systems" (http://www.cisco.com/en/US/products/ps6692/Products_Sub_Category_Home.html). Cisco.com. Retrieved 2014-05-27.
217. "Database Mirroring Endpoint" (http://technet.microsoft.com/en-us/library/ms179511(v=sql.105).aspx). *SQL Server 2008 R2*. Microsoft. Retrieved 2014-05-27.
218. "WebClientAuthenticatedSessionIDs - FAHClient" (https://fah.stanford.edu/projects/FAHClient/wiki/WebClientAuthenticatedSessionIDs). stanford.edu. Retrieved 2014-05-27.
219. "The Neo4J Manual Chapter 27. Web Interface" (http://docs.neo4j.org/chunked/stable/tools-webadmin.html). Retrieved 2014-06-12.
220. "Open iT FAQs: What are the default port server of Open iT?" (https://openit.com/faqs/#hrf-content-8578). Retrieved 2017-02-28.
221. Wood, Lloyd; Eddy, Wesley M.; Smith, Charles; Ivancic, Will; Jackson, Chris (November 2016). *Saratoga: A Scalable Data Transfer Protocol* (https://tools.ietf.org/html/draft-wood-tsvwg-saratoga-20). Contributions by James H. McKim et al. (section 10 "Acknowledgements", p. 52). IETF. I-D draft-wood-tsvwg-saratoga-20. https://tools.ietf.org/html/draft-wood-tsvwg-saratoga-20. Retrieved 2017-03-27. "... Saratoga is a file transfer and content delivery protocol ... IANA has allocated port 7542 (tcp/udp) for use by Saratoga. ..." Archived (https://web.archive.org/web/20170327103615/https://tools.ietf.org/html/draft-wood-tsvwg-saratoga-20) 2017-03-27 at the Wayback Machine.
222. Wood, Lloyd; Eddy, Wesley M.; Ivancic, Will; McKim, Jim; Jackson, Chris (13–14 September 2007). *Saratoga: a Delay-Tolerant Networking convergence layer with efficient linkutilization* (http://ieeexplore.ieee.org/document/4409410/). 2007 International Workshop on Space and Satellite Communications. Salzburg: IEEE. pp. 168–172. ISBN 978-1-4244-0938-9. doi:10.1109/IWSSC.2007.4409410 (https://doi.org/10.1109%2FIWSSC.2007.4409410). "... Saratoga is a rate-based UDP file transfer protocol capable of transferring large files. Saratoga has been in operational use since 2004 to move mission imaging data from the Disaster Monitoring Constellation (DMC) remote-sensing satellites to ground stations. ..."
223. "Smartlaunch 4.1 Cyber Cafe Management Software Product Overview" (http://www.smartlaunch.net/Download/Smartlaunch_Product_Overview.pdf) (PDF). Retrieved 2014-05-27.
224. "How to create a YSF Server, step by step guide" (http://forum.ysfhq.com/viewtopic.php?f=144&t=1529) *forum.ysfhq.com*. YSFlight Headquarters. 2011-08-06. Retrieved 2013-10-26.
225. "Flex 3 – Adobe Flex 3 Help" (http://livedocs.adobe.com/flex/3/html/help.html?content=debugging_02.html) adobe.com. Retrieved 2014-05-27.
226. "Running DynamoDB on Your Computer" (https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/DynamoDBLocal.html). *Amazon DynamoDB – Developer Guide* (https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/) (API Version 2012-08-10 ed.). Amazon Web Services. n.d. Archived (https://web.archive.org/web/20161024004612/https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/DynamoDBLocal.html) from the original on 2016-10-24. Retrieved 2016-10-24. "... DynamoDB uses port 8000 by default. ...".
227. "Writing your first Django app" (https://docs.djangoproject.com/en/1.10/intro/tutorial01/). *Django documentation* (https://docs.djangoproject.com/en/1.10/) (1.10 ed.). Django Software Foundation. 2016. Archived (https://web.archive.org/web/20161024005546/https://docs.djangoproject.com/en/1.10/intro/tutorial01/) from the original on 2016-10-24. Retrieved 24 July 2016. "... By default, the `runserver` command starts the development server on the internal IP at port 8000. ..."
228. "AppAssure 5 Firewall Port Requirements" (https://web.archive.org/web/20130122023421/http://www.appassure.com/support/KB/appassure-5-firewall-port-requirements/). AppAssure (Knowledge Base). *Dell* (published 2012-10-23). 2012-10-01. Archived from the original (http://www.appassure.com/support/KB/appassure-5-firewall-port-requirements/) on 2013-01-22. Retrieved 2017-02-12.
229. "OpenERP Web Installation" (https://doc.odoo.com/5.0/install/linux/web/). *OpenERP Documentation* (https://doc.odoo.com/5.0/) (5.0 ed.) (published 2017-02-12). n.d. Archived (https://web.archive.org/web/20170212140341/https://doc.odoo.com/5.0/install/linux/web/) from the original on 2017-02-12. Retrieved 2017-02-12. "... *port* is the OpenERP server port which is by default 8070 for NET-RPC or 8069 for XML(S)-RPC. The web server itself listens by default on port 8080 ..."

230. "Changing JIRA application TCP ports" (https://confluence.atlassian.com/adminjiraserver071/changing-jira-applicatio tcp-ports-802593049.html). *Administering JIRA applications 7.1* (https://confluence.atlassian.com/adminjiraserver071/) n.d. Archived (https://web.archive.org/web/20170212143908/https://confluence.atlassian.com/adminjiraserver071/chang ing-jira-application-tcp-ports-802593049.html) from the original on 2017-02-12. Retrieved 2017-02-12. "... By default, JIRA applications use TCP listening port 8080 and hence, JIRA applications are typically available at `http://<yourserver>:8080` . ..."
231. "Wie ist die FRITZ!Box vor Angriffen auf Port 8089 geschützt?" (https://avm.de/service/fritzbox/fritzbox-7490/wissens datenbank/publication/show/1472_Wie-ist-die-FRITZ-Box-vor-Angriffen-auf-Port-8089-geschuetzt/) [How is the FRITZ!Box protected from attacks on port 8089?] (in German). n.d. Archived (https://web.archive.org/web/20170212150904/https://avm.de/service/fritzbox/fritzbox-7490/wissensdatenbank/publication/show/1472_Wie-ist-die-FRITZ-Box-vor-Angriffen-auf-Port-8089-geschuetzt/) from the original on 2017-02-12. Retrieved 2017-02-12.
232. "Change listen port for Confluence" (https://confluence.atlassian.com/doc/change-listen-port-for-confluence-165823.html). *Confluence Server documentation* (https://confluence.atlassian.com/doc/) (6.0 ed.). n.d. Archived (https://confluence.atlassian.com/doc/change-listen-port-for-confluence-165823.html) from the original on 2017-02-12. Retrieved 2017-02-12. "... If you see this error: ...This means you are running other software on Confluence's default port of 8090. ..."
233. "Frequently asked questions" (http://wiki.coralcdn.org/faq.html). *Coral Content Distribution Network Wiki*. n.d. Archived (https://web.archive.org/web/20170212152632/http://wiki.coralcdn.org/faq.html) from the original on 2017-02-12. Retrieved 2017-02-12. "... you can now access CoralCDN through ports 80, 8080, and 8090. ..."
234. "Network Configuration" (https://developer.couchbase.com/documentation/server/current/install/install-ports.html). *CouchBase Developer Portal* 2017. Archived (https://web.archive.org/web/20170212153626/https://developer.couchbase.com/documentation/server/current/install/install-ports.html) from the original on 2017-02-12. Retrieved 2017-02-12.
235. "Remote Administration for IIS Manager" (http://www.iis.net/learn/manage/remote-administration/remote-administration-for-iis-manager#02). *iis.net*. Retrieved 16 March 2015.
236. "Bloomberg Transport and Security Specification" (https://www.bloomberg.com/professional/content/uploads/sites/4/Transport_Security_Specification_60.pdf) (PDF). Retrieved 17 March 2016.
237. "Powered by Google Docs" (https://docs.google.com/viewer?a=v&q=cache:g1tLcfWcQJ:www.crcnetbase.com/doi/abs/10.1201/9781420070286.ax2+VMware+Management+Interface+port+TCP+UDP&hl=en&gl=us&pid=bl&srcid=AGEESi8urPkgh3Jsf0pC4h3fWj878md2a3IMlwbRt6l5gkvmVcGiXXzO0TJuo4wOkqPDGXVLHqUU03LKBpQ-3eViv5DaIXn5Nru1klAVy_YVtuCY8Ab-cnEDcTb5PUqA0IzEa36As&sig=AHIEtbScYJ_gM-JL0DEimzkbNLh14TTq-g) google.com. Retrieved 2014-05-27.
238. "Temporary Maintenance" (http://www.vmware.com/community/message.jspa?messageID=425783). *vmware.com*. 4 August 2014. Retrieved 16 March 2015.
239. "Apache Synapse" (http://synapse.apache.org). apache.org. 2012-01-06. Retrieved 2014-05-27.
240. "Remote Access Update API - CheckIP Tool FAQ" (https://help.dyn.com/remote-access-api/checkip-tool/). dyn.com. Retrieved 2015-08-21.
241. "MikroTik Wiki "IP/Services" page" (http://wiki.mikrotik.com/wiki/Manual:IP/Services). MikroTik. 2014-01-02. Retrieved 2014-06-23.
242. Bitcoin Forum: Command Line and JSON-RPC (http://www.bitcoin.org/smf/index.php?topic=63.msg452#msg452)
243. "FAQ - Bitcoin" (https://en.bitcoin.it/wiki/FAQ#Do_I_need_to_configure_my_firewall_to_run_Bitcoin.3F). En.bitcoin.it. 2014-12-12. Retrieved 2015-01-01.
244. "Enabling the inbound firewall rule for a master VDFS service - VisualSVN Help Center" (http://www.visualsvn.com/support/topic/00073/). *visualsvn.com*. Retrieved 16 March 2015.
245. *Configuring and Administering Adobe ColdFusion 10* (http://help.adobe.com/en_US/ColdFusion/10.0/Admin/coldfusion_10_admin.pdf) (PDF). Adobe (published 2012-09-07). n.d. pp. 2, 5, 29, 95, 150–151. Archived (https://wayback.archive-it.org/all/20130202175437/http://help.adobe.com/en_US/ColdFusion/10.0/Admin/coldfusion_10_admin.pdf) (PDF) from the original on 2013-02-02. Retrieved 2016-10-24. "... The ColdFusion server configuration is built on top of Tomcat, also called the built-in web server... By default in the server configuration, the built-in web server listens on port 8500. ..."
246. "How to Configure a Firewall for Software Updates" (https://technet.microsoft.com/en-us/library/bb693717.aspx). *Microsoft TechNet*. n.d. Archived (https://web.archive.org/web/20161024231138/https://technet.microsoft.com/en-us/library/bb693717.aspx) from the original on 2016-10-24. Retrieved 2016-10-24. "... By default, a WSUS server that is configured for the default Web site uses port 80 for HTTP and port 443 for HTTPS. By default, the WSUS server uses port 8530 for HTTP and port 8531 for HTTPS if it is using the WSUS custom Web site. ..."

247. "Step 3: Configure WSUS" (https://technet.microsoft.com/en-us/library/hh852346.aspx). *Deploy Windows Server Update Services in Your Organization* (https://technet.microsoft.com/en-us/library/hh852340.aspx). *Microsoft TechNet*. n.d. Archived (https://web.archive.org/web/20161024231054/https://technet.microsoft.com/en-us/library/hh852346.aspx) from the original on 2016-10-24. Retrieved 2016-10-24. "... WSUS upstream and downstream servers will synchronize on the port configured by the WSUS Administrator. By default, these ports are configured as follows:"
    - "On WSUS 3.2 and earlier, port 80 for HTTP and 443 for HTTPS"
    - "On WSUS 6.2 and later (at least Windows Server 2012), port 8530 for HTTP and 8531 for HTTPS"

    " ..."
248. Ohling, Freerk; Varley Jamieson, Helen; Rastapopoulos, Roberto; Schoen, Seth; booki; et al. (2011). "Freegate" (https://flossmanuals.net/bypassing-censorship/ch022_freegate/). *How to Bypass Internet Censorship* (https://flossmanuals.net/bypassing-censorship/) FLOSS Manuals. 22. Archived (https://archive.is/20161024235132/https://flossmanuals.net/bypassing-censorship/ch022_freegate/) from the original on 2016-10-24. Retrieved 2016-10-24. "... Freegate is a proxy tool ... If you want to use another application with Freegate ... you will have to configure them to use Freegate as a proxy server. ... the port is 8580. ..."
249. "Planning your network topology" (https://www.ibm.com/support/knowledgecenter/SSYRPW_8.5.1/com.ibm.help.lnt81.doc/Plan_network_configuration.html). *Lotus Notes Traveler 8.5.1 documentation* (https://www.ibm.com/support/knowledgecenter/SSYRPW_8.5.1). IBM (published 2010-07-01). n.d. Retrieved 2016-10-25.
250. "Network calculations" (http://www.ultrafractal.com/help/network/networkcalculations.html). *Ultra Fractal manual* (http://www.ultrafractal.com/help/) Frederik Slijkerman. n.d. Archived (https://archive.is/20161025005802/http://www.ultrafractal.com/help/index.html?/help/network/networkcalculations.html) from the original on 2016-10-25. Retrieved 2016-10-25. "... Ultra Fractal enables you to distribute calculations over multiple computers connected with a network. ... Ultra Fractal uses the TCP/IP protocol for network calculations, "...
251. "Network servers" (http://www.ultrafractal.com/help/network/networkservers.html). *Ultra Fractal manual* (http://www.ultrafractal.com/help/) Frederik Slijkerman. n.d. Archived (https://archive.is/20161025005452/http://www.ultrafractal.com/help/index.html?/help/network/networkservers.html) from the original on 2016-10-25. Retrieved 2016-10-25. "... To be able to connect to a remote computer, Ultra Fractal must be running in server mode ... By default, the server listens on port 8691 for connections ..."
252. "Which ports does the TeamSpeak 2 server use?" (https://support.teamspeakusa.com/index.php?%2FKnowledgebase%2FArticle%2FView%2F79%2F19%2Fwhich-ports-does-the-teamspeak-2-server-use). Support. *TeamSpeak*. n.d. Archived (https://web.archive.org/web/20161025011723/https://support.teamspeakusa.com/index.php?%2FKnowledgebase%2FArticle%2FView%2F79%2F19%2Fwhich-ports-does-the-teamspeak-2-server-use) from the original on 2016-10-25. Retrieved 2016-10-25.
253. *Nessus 6.8 User Guide* (https://docs.tenable.com/nessus/6_8/Content/PDF/Nessus_User_Manual.pdf) (PDF). Tenable Network Security (published 2016-09-21). n.d. Archived (https://web.archive.org/web/20161025022320/https://docs.tenable.com/nessus/6_8/Content/PDF/Nessus_User_Manual.pdf) (PDF) from the original on 2016-10-25. Retrieved 2016-10-25. "... The Nessus UI uses port 8834. ... By default, Nessus is installed and managed using HTTPS and SSL, uses port 8834 ..."
254. Vaughan-Nichols, Steven J. (2009-06-18). "First look: Opera Unite alpha lets you share files -- but is it safe?" (http://www.computerworld.com/article/2525727/networking/first-look--opera-unite-alpha-lets-you-share-files----but-is-it-safe-.html). Networking. *Computerworld*. Archived (https://web.archive.org/web/20161025025341/http://www.computerworld.com/article/2525727/networking/first-look--opera-unite-alpha-lets-you-share-files----but-is-it-safe-.html) from the original on 2016-10-25. Retrieved 2016-10-25. "... Unite is both a Web browser and a Web server. With the included JavaScript applets, ...To make this happen, your PC and its Internet connection have to have port 8840 open."...
255. The How-To Geek (2010-02-15). "How to Share Large Files Over the Internet with Opera Unite" (http://lifehacker.com/5472050/whats-the-easiest-way-to-share-large-files-and-media-with-friends). *Lifehacker*. Archived (https://web.archive.org/web/20161025030322/http://lifehacker.com/5472050/whats-the-easiest-way-to-share-large-files-and-media-with-friends) from the original on 2016-10-25. Retrieved 2016-10-25. "... Unite automatically hooks into your router using uPnP to dynamically open port 8840, but it can also use a Unite proxy server when you're behind a more restrictive firewall ..."
256. "Use of CDDB service in your software" (http://www.robots.ox.ac.uk/~spline/cddb-howto.txt). CDDB Inc. 1998-09-28. Archived (https://web.archive.org/web/20161025030916/http://www.robots.ox.ac.uk/~spline/cddb-howto.txt) from the original on 2016-10-25. Retrieved 2016-10-25 – via Department of Engineering Science, University of Oxford. "... CDDB (CD database) is an information database containing artist, disc title, track titles, and other information for digital audio compact discs. ...There are two forms of remote access to CDDB servers, CDDBP and HTTP. All current CDDB servers answer either at IP port 888 or 8880 for CDDBP and port 80 for HTTP access."...
257. "Port number settings in WebSphere Application Server versions" (https://www.ibm.com/support/knowledgecenter/SS7JFU_8.0.0/com.ibm.websphere.migration.express.iseries.doc/info/iseriesexp/ae/rmig_portnumber.html). *WebSphere Application Server - Express, Version 8.0 documentation* (https://www.ibm.com/support/knowledgecenter/SS7JFU_8.0.0). IBM (published 2016-07-25). n.d. Archived (https://web.archive.org/web/20161025035406/https://www.ibm.com/support/knowledgecenter/SS7JFU_8.0.0/com.ibm.websphere.migration.express.iseries.doc/info/iseriesexp/ae/rmig_portnumber.html) from the original on 2016-10-25. Retrieved 2016-10-25.

258. "Frequently Asked Questions" (http://mqtt.org/faq). *MQTT*. n.d. Archived (https://web.archive.org/web/20161025032638/http://mqtt.org/faq) from the original on 2016-10-25. Retrieved 2016-10-25. "... TCP/IP port 1883 is reserved with IANA for use with MQTT. TCP/IP port 8883 is also registered, for using MQTT over SSL..."
259. Banks, Andrew; Gupta, Guhan, eds. (2015-12-10). "Network Connections" (https://docs.oasis-open.org/mqtt/mqtt/v3.1.1/mqtt-v3.1.1.html#_Network_Connections). *MQTT Version 3.1.1* (https://docs.oasis-open.org/mqtt/mqtt/v3.1.1/mqtt-v3.1.1.html) (Plus Errata 01 ed.). OASIS. 4.2. Archived (https://web.archive.org/web/20161025033743/https://docs.oasis-open.org/mqtt/mqtt/v3.1.1/mqtt-v3.1.1.html) from the original on 2016-10-25. Retrieved 2016-10-25. "... TCP ports 8883 and 1883 are registered with IANA for MQTT TLS and non TLS communication respectively."
260. Ivanov, Paul; et al. (2015-09-25). "Running a notebook server" (https://ipython.org/ipython-doc/3/notebook/public_server.html). In Baecker, Arnd. *IPython Documentation* (https://ipython.org/ipython-doc/3/). *IPython* (3.2.1 ed.). Archived (https://web.archive.org/web/20161025045314/https://ipython.org/ipython-doc/3/notebook/public_server.html) from the original on 2016-10-25. Retrieved 2016-10-25. "... The IPython notebook web-application is based on a server-client structure. ... By default, a notebook server runs on `http://127.0.0.1:8888/` and is accessible only from `localhost`. ..."
261. "Running the Notebook" (https://jupyter.readthedocs.io/en/latest/running.html). *Jupyter Documentation* (https://jupyter.readthedocs.io/en/latest/) (Latest ed.). n.d. Archived (https://web.archive.org/web/20161025050710/https://jupyter.readthedocs.io/en/latest/running.html) from the original on 2016-10-25. Retrieved 2016-10-25 – via Read the Docs. "... By default, the notebook server starts on port 8888. If port 8888 is unavailable or in use, the notebook server searches the next available port. ..."
262. "Apache Solr Tutorial" (http://lucene.apache.org/solr/4_1_0/tutorial.html). apache.org. 2012-06-06. Retrieved 2014-05-27.
263. Gaudin, Olivier. "SonarQube Installation Instructions" (https://web.archive.org/web/20140512085743/http://docs.codehaus.org/display/SONAR/Installing). codehaus.org. Archived from the original (http://docs.codehaus.org/display/SONAR/Installing#Installing-StartingtheWebServer) on May 12, 2014. Retrieved 2014-05-27.
264. "Play2 Documentation" (http://www.playframework.com/documentation/2.2.0/Production). Playframework.com. Retrieved 2014-05-27.
265. "How to use qBittorrent as a tracker" (https://github.com/qbittorrent/qBittorrent/wiki/How-to-use-qBittorrent-as-a-tracker). Retrieved 27 June 2015.
266. ETL Electronics (http://etlelectronique.com/defaulten.aspx). Archived (https://web.archive.org/web/20120104090617/http://etlelectronique.com/defaulten.aspx) January 4, 2012, at the Wayback Machine.
267. "RESTful API with JSON over HTTP" (http://www.elastic.co/guide/en/elasticsearch/guide/current/_talking_to_elasticsearch.html#_restful_api_with_json_over_http). Elasticsearch. Retrieved 2015-04-04.
268. "PS3™ | Using remote play (via the Internet)" (http://manuals.playstation.net/document/en/ps3/current/remoteplay/remoteinternet.html). Manuals.playstation.net. 2013-09-13. Retrieved 2013-10-08.
269. "Transferring data using Wi-Fi | PlayStation®Vita User's Guide" (http://manuals.playstation.net/document/en/psvita/cmwifi_pc.html). Manuals.playstation.net Retrieved 2013-10-08.
270. Konopelko, Piotr Robert (2016-08-04). Kruszona-Zawadzka, Agata, ed. *MooseFS 3.0 User's Manual* (https://moosefs.com/Content/Downloads/moosefs-3-0-users-manual.pdf) (PDF) (1.0.4 ed.). pp. 11, 19–23, 58, 62, 74–76. Archived (https://web.archive.org/web/20160830200130/https://moosefs.com/Content/Downloads/moosefs-3-0-users-manual.pdf) (PDF) from the original on 2016-08-30. Retrieved 2016-08-30.
271. "Tripwire Enterprise 8" (https://web.archive.org/web/20130923234722/http://nvd.nist.gov/validation_tripwire_enterprise_docs.html). Nvd.nist.gov. Archived from the original (http://nvd.nist.gov/validation_tripwire_enterprise_docs.html) on September 23, 2013. Retrieved 2013-10-08.
272. Bergkvist, Christoffer (2012-08-02). "Install and initial setup" (https://tvheadend.org/projects/tvheadend/wiki/Install_and_initial_setup). *Tvheadend*. Archived (https://web.archive.org/web/20160927174027/https://tvheadend.org/projects/tvheadend/wiki/Install_and_initial_setup) from the original on 2016-09-27. Retrieved 2016-09-27. "... Tvheadend listens to the following TCP ports by default:
    - "9981 - HTTP server (web interface)"
    - "9982 - HTSP server (Streaming protocol)"

    "..."
273. "Network ports open by NetCrunch" (http://www.adremsoft.com/kb/app/1310286). AdRem Software. 2014-07-02. Retrieved 2014-07-02.
274. "Lantronix Discontinued Products / No Longer Supported" (http://www.lantronix.com/support/discontinued.html). Lantronix.com. Retrieved 2014-05-27.
275. "Vonage VoIP Telephony Port Information" (https://support.vonage.com/app/answers/detail/a_id/690/~/port-forwarding). Retrieved 2016-05-31.
276. "UDS10 and UDS100 User Guide" (http://www.lantronix.com/pdf/UDS10-UDS100_UG.pdf) (PDF). Retrieved 2014-05-27.
277. "Manual pages - F-PROT Antivirus Support - Unix" (http://www.f-prot.com/support/unix/unix_manpages/fpscand.8.html). F-prot.com. Retrieved 2014-05-27.
278. "Manual pages - F-PROT Antivirus Support - Unix" (http://www.f-prot.com/support/unix/unix_manpages/f-protd.8.html). F-prot.com. Retrieved 2014-05-27.

279. "GE Proficy HMI/SCADA - CIMPLICITY Input Validation Flaws Let Remote Users Upload and Execute Arbitrary Code" (http://securitytracker.com/id/1029853). Retrieved 2016-05-10.
280. "network broadcast from bluestacks - Beacon-v1" (https://web.archive.org/web/20140419012604/https://getsatisfaction.com/bstk/topics/network_broadcast_from_bluestacks_beacon_v1). Getsatisfaction.com. Archived from the original (https://getsatisfaction.com/bstk/topics/network_broadcast_from_bluestacks_beacon_v1) on April 19, 2014. Retrieved 2013-10-08.
281. "IANA Service Name and Transport Protocol Port Number Registry" (http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml?&page=117). October 2015.
282. "Octopus Deploy Documentation" (http://docs.octopusdeploy.com/display/OD/Listening+Tentacles). October 2015.
283. John, Ted (2015-11-25). "Multiplayer" (https://docs.openrct2.website/en/latest/playing/multiplayer/index.html) *OpenRCT2 0.0.2 documentation* (https://docs.openrct2.website/). Archived (https://web.archive.org/web/20170426235410/https://openrct2.readthedocs.io/en/latest/playing/multiplayer/index.html) from the original on 2017-04-26. Retrieved 2017-04-26. "... enter the hostname or IP address (and optionally a port if the server is not using the default OpenRCT port, 11753). ... configure your router to forward TCP connections on your chosen port (default is 11753) ..."
284. "The Only Currency Worthy of the Name" (https://www.murraycoin.org). Murraycoin. 2014-01-20. Retrieved 2014-05-27.
285. "Starting and Configuring the ElevateDB Server" (http://www.elevatesoft.com/manual?action=viewtopic&id=edb2sql&topic=Starting_Configuring_Server). Elevatesoft.com. 2014-05-16. Retrieved 2014-05-27.
286. Support, Axence (2013-04-29). "Porty używane przez nVision – Axence Support" (https://web.archive.org/web/20140418220742/http://service.axencesoftware.com/entries/20610646-porty-uzywane-przez-nvision-i-agenta) Service.axencesoftware.com. Archived from the original (http://service.axencesoftware.com/entries/20610646-porty-uzywane-przez-nvision-i-agenta) on April 18, 2014. Retrieved 2013-10-08.
287. "Server" (http://www.cubeworldwiki.net/index.php/Server). Cube World Wiki. 2013-07-17. Retrieved 2013-10-08.
288. "How to Access the Version 7 HMC Remotely" (http://www-01.ibm.com/support/docview.wss?uid=nas8N1012844). IBM. 2013-07-17. Retrieved 2014-09-05.
289. Scheduler-Usage. "Forums: Controlm-M Usage Forum Index -> Control-M Enterprise Manager" (https://web.archive.org/web/20130502061720/http://www.scheduler-usage.com/modules.php?name=Forums&file=viewtopic&t=1229) Scheduler-Usage. Archived from the original (http://www.scheduler-usage.com/modules.php?name=Forums&file=viewtopic&t=1229) on May 2, 2013. Retrieved 2014-05-27.
290. Automatic Packet Reporting System 'APRS Wiki'
291. "'Mac OS X Server 10: Web service uses ports 80 and 16080 by default'" (http://docs.info.apple.com/article.html?artnum=106407). apple.com. Retrieved 2014-05-27.
292. "Sassafras Software Inc" (http://www.sassafras.com/). Sassafras.com. Retrieved 2014-05-27.
293. *How do I allow my internal XMPP client or server to connect to the talk service?* (https://code.google.com/support/bin/answer.py?hl=en&answer=62464) Google Code Help, accessed December 15, 2010.
294. "'4D Server and port numbers'" (http://www.4d.com/4d_docv13/4D/13/Configuration-preferences.300-845386.en.html#68475). 4d.com. 2013-12-03. Retrieved 2014-05-27.
295. "WISCEBridge Debug Protocol" (http://www.wolfsonmicro.com/support/wisce/). Wolfsonmicro.com. Retrieved 2014-05-27.
296. "Tutorials/Setting up a server – Minecraft Wiki" (http://minecraft.gamepedia.com/Setting_up_a_server) *minecraft.gamepedia.com* Retrieved 2015-12-20.
297. "Protocol - wiki.vg" (http://wiki.vg/Protocol#Handshaking). *wiki.vg*. Retrieved 2016-11-07.
298. "Networking introduction - collectd Wiki" (http://collectd.org/wiki/index.php/Networking_introduction). Collectd.org. 2012-01-25. Retrieved 2013-10-08.
299. "Required Ports for Steam" (https://support.steampowered.com/kb_article.php?ref=8571-GLVN-8711). Support. *Steam*. Archived (https://web.archive.org/web/20160827113556/https://support.steampowered.com/kb_article.php?ref=8571-GLVN-8711) from the original on 2016-08-27. Retrieved 2016-08-27.
300. "Cube 2: Sauerbraten - Configuration" (http://sauerbraten.org/docs/config.html). Sauerbraten. Retrieved 2013-10-26.
301. "Server Setup - redeclipse" (http://sourceforge.net/apps/mediawiki/redeclipse/index.php?title=Server_Setup). SourceForge.net. 2013-09-03. Retrieved 2013-10-08.
302. http://www.nintendo.com/consumer/wfc/en_na/ds/firewall.jsp Nintendo Customer Service - Nintendo Wi-Fi Connection Help
303. `boinc(1) (https://linux.die.net/man/1/boinc)` – Linux User Commands Manual
304. *Rocket UniVerse Installation Guide (Version 11.2.3)* (http://docs.rocketsoftware.com/nxt/gateway.dll/RKB/new%20%2Funiverse%2Fprevious%20versions%2Fv11.2.3%2Funiverse_installguide_v1123.pdf) (PDF) (UNV-113-INST-1 ed.). Rocket Software. April 2014. pp. 3–8, 4–8. "... When you install UniVerse on your system for the first time, you must add the UniRPC daemon's port to the `/etc/services` file. Add the following line to the `/etc/services` file: `uvrpc 31438/tcp # uvrpc port` ..."
305. "Immunet Protect 2.0 Requirements & Compatible Security Package List" (https://web.archive.org/web/20131005204557/http://support.immunet.com/tiki-read_article.php?articleId=4). Support. *Immunet*. 2010-05-12. Archived from the original (http://support.immunet.com/tiki-read_article.php?articleId=4) on 2013-10-05. Retrieved 2016-10-18.

306. Pedersen (2012-03-24). "Manually Configure Ports In Your Firewall" (http://forum.immunet.com/index.php?/topic/184
-manually-configure-ports-in-your-firewall/). Forum. *Immunet*. Archived (https://web.archive.org/web/2016101800233
8/http://forum.immunet.com/index.php?%2Ftopic%2F1849-manually-configure-ports-in-your-firewall%2F) from the
original on 2016-10-18. Retrieved 2016-10-18.
307. "What network ports do I need to allow through my firewall?" (https://support.plex.tv/hc/en-us/articles/201543147-Wh
t-network-ports-do-I-need-to-allow-through-my-firewall-). Support (FAQ). *Plex*. n.d. Archived (https://web.archive.org/
web/20161018003231/https://support.plex.tv/hc/en-us/articles/201543147-What-network-ports-do-I-need-to-allow-th
ugh-my-firewall-) from the original on 2016-10-18. Retrieved 2016-10-18. "... TCP: 32400 (for access to the Plex Medi
Server) ..."
308. Gallagher, Sean (2014-01-02). "Backdoor in wireless DSL routers lets attacker reset router, get admin" (https://arstechni
ca.com/security/2014/01/backdoor-in-wireless-dsl-routers-lets-attacker-reset-router-get-admin/). *Ars Technica*. Archived
(https://web.archive.org/web/20161109150322/http://arstechnica.com/security/2014/01/backdoor-in-wireless-dsl-routers
-lets-attacker-reset-router-get-admin/) from the original on 2016-11-09. Retrieved 2016-11-09. "... A hacker has found a
backdoor to wireless combination router/DSL modems ... The attack, confirmed to work on several Linksys and Netgear
DSL modems ... the router responded to messages over an unusual TCP port number: 32764. ... the backdoor might
affect wireless routers with DSL modems from SerComm, ..."
309. "Which ports and protocols does LogMeIn Hamachi use?" (http://help.logmein.com/articles/en_US/FAQ/Which-ports-a
nd-protocols-does-LogMeIn-Hamachi2-use-en1). Support. *LogMeIn*. n.d. Archived (https://web.archive.org/web/20161
018005545/http://help.logmein.com/articles/en_US/FAQ/Which-ports-and-protocols-does-LogMeIn-Hamachi2-use-en1)
from the original on 2016-10-18. Retrieved 2016-10-18. "... "
    - "TCP 12975 (initiator port)"
    - "TCP 32976 (session port)"

    "If the above ports cannot be used to achieve a connection, Hamachi will try again using SSL (TCP 443)."...
310. Kawaguchi, Kohsuke; et al. (2007-05-06). "Remote access API" (https://wiki.jenkins-ci.org/display/JENKINS/Remot
e%2Baccess%2BAPI) In Scheibe, René. *Jenkins Wiki*. Small contributions from various people. (published 2017-03-
15). Archived (https://web.archive.org/web/20170519193305/https://wiki.jenkins-ci.org/display/JENKINS/Remote%2B
access%2BAPI) from the original on 2017-05-19. Retrieved 2017-05-19. "... Jenkins instances listen on UDP port
33848. ..."
311. Kawaguchi, Kohsuke; et al. (2010-05-10). "Auto-discovering Jenkins on the network" (https://wiki.jenkins-ci.org/displa
y/JENKINS/Auto-discovering%2BJenkins%2Bon%2Bthe%2Bnetwork). *Jenkins Wiki* (published 2016-02-24).
Archived (https://web.archive.org/web/20161018014454/https://wiki.jenkins-ci.org/display/JENKINS/Auto-discoverin
g%2BJenkins%2Bon%2Bthe%2Bnetwork) from the original on 2016-10-18. Retrieved 2016-10-18. "... Jenkins listens
on UDP port 33848. ..."
312. "Appendix B. Firewalls and default ports" (http://docs.openstack.org/kilo/config-reference/content/firewalls-default-por
s.html). *OpenStack Configuration Reference* (http://docs.openstack.org/kilo/config-reference/content/index.html).
OpenStack Foundation. 2016-05-10. Archived (https://web.archive.org/web/20161018023342/http://docs.openstack.org/
kilo/config-reference/content/firewalls-default-ports.html) from the original on 2016-10-18. Retrieved 2016-10-18.
313. "How do I set up exceptions in my firewall for RuneScape?" (https://support.runescape.com/hc/en-gb/articles/2058451
2-How-do-I-set-up-exceptions-in-my-firewall-for-RuneScape-). *Support*. RuneScape. n.d. Retrieved 2016-09-28.
"... open the following ports; 443, 43594 and 43595 ..."
314. "Obtaining Data from the Local Computer (Windows)" (http://msdn.microsoft.com/en-us/library/aa384424%28VS.85%
29.aspx). Msdn.microsoft.com. 2013-08-23. Retrieved 2013-10-08.
315. *Internet Assigned Numbers Authority (IANA) Procedures for the Management of the Service Name and Transport
Protocol Port Number Registry* (https://tools.ietf.org/html/rfc6335). IETF. August 2011. RFC 6335.
https://tools.ietf.org/html/rfc6335.

External links

- "Service Name and Transport Protocol Port Number Registry". IANA.

trademark of the Wikimedia Foundation, Inc., a non-profit organization.