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Common Ports and Protocols Reference

A practical quick reference to common TCP and UDP ports, service names, operational context, and security considerations.

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NOTE: A port number does not prove which application is actually running. Services can be moved to non-default ports, shared behind proxies, tunneled, or dynamically assigned. Validate with service/application evidence.

Use this guide as a practical reference. Verify commands, targets, permissions, paths, versions, and organizational policy before making changes. Examples with placeholders must be adapted to the environment.

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Total reference entries: 114

1. Port number ranges

Range	IANA category	Notes
`0-1023`	System Ports	Well-known/system range; assignments generally require IETF review or IESG approval.
`1024-49151`	User Ports	Registered/user range; assignments may be made through IANA procedures.
`49152-65535`	Dynamic/Private	Not assigned by IANA for fixed services; commonly used for ephemeral/private use.

2. Common ports and protocols

Port	Transport	Service / Protocol	Operational note
20	TCP	FTP data	Legacy FTP data channel; prefer secure alternatives.
21	TCP	FTP control	Legacy FTP control; credentials/data are not protected by FTP alone.
22	TCP	SSH/SFTP/SCP	Secure remote shell and file transfer.
23	TCP	Telnet	Unencrypted remote terminal; generally avoid.
25	TCP	SMTP	Mail transfer; often server-to-server.
53	TCP/UDP	DNS	Name resolution and zone transfers.
67	UDP	DHCP server	IPv4 DHCP server.
68	UDP	DHCP client	IPv4 DHCP client.
69	UDP	TFTP	Trivial file transfer; no built-in authentication.
80	TCP	HTTP	Web traffic without TLS.
88	TCP/UDP	Kerberos	Authentication in Active Directory and other Kerberos environments.
110	TCP	POP3	Legacy mail retrieval without TLS.
111	TCP/UDP	rpcbind/portmapper	RPC service mapping on Unix-like systems.
123	UDP	NTP	Network time synchronization.
135	TCP	MS RPC endpoint mapper	Windows RPC endpoint mapping.
137	UDP	NetBIOS Name Service	Legacy Windows name service.
138	UDP	NetBIOS Datagram	Legacy Windows datagram service.
139	TCP	NetBIOS Session	Legacy SMB over NetBIOS.
143	TCP	IMAP	Mail retrieval without implicit TLS.
161	UDP	SNMP	Network management queries.
162	UDP	SNMP trap	Network management notifications.
179	TCP	BGP	Border Gateway Protocol.
389	TCP/UDP	LDAP	Directory services; use TLS where appropriate.
443	TCP	HTTPS	HTTP over TLS.
445	TCP	SMB	Windows file/printer sharing and AD-related functions.
465	TCP	Submission over implicit TLS	Common secure mail submission assignment.
500	UDP	IKE	IPsec key exchange.
514	UDP	Syslog	Traditional syslog transport; often plaintext.
515	TCP	LPD/LPR	Line printer daemon.
546	UDP	DHCPv6 client	IPv6 DHCP client.
547	UDP	DHCPv6 server	IPv6 DHCP server.
587	TCP	Message submission	Authenticated mail submission, typically with STARTTLS.
636	TCP	LDAPS	LDAP over TLS.
853	TCP	DNS over TLS	Encrypted DNS transport.
993	TCP	IMAPS	IMAP over implicit TLS.
995	TCP	POP3S	POP3 over implicit TLS.
1194	UDP/TCP	OpenVPN	Common OpenVPN deployment port; configurable.
1433	TCP	Microsoft SQL Server	Common SQL Server database port.
1521	TCP	Oracle database	Common Oracle listener port.
1701	UDP	L2TP	Layer 2 Tunneling Protocol.
1812	UDP	RADIUS authentication	Common AAA authentication port.
1813	UDP	RADIUS accounting	Common AAA accounting port.

Port	Transport	Service / Protocol	Operational note
2049	TCP/UDP	NFS	Network File System.
3128	TCP	HTTP proxy	Common proxy port used by products such as Squid; configurable.
3268	TCP	AD Global Catalog	Active Directory Global Catalog.
3269	TCP	AD Global Catalog TLS	Global Catalog over TLS.
3306	TCP	MySQL	Common MySQL database port.
3389	TCP/UDP	RDP	Microsoft Remote Desktop.
4500	UDP	IPsec NAT-T	IPsec NAT traversal.
5060	TCP/UDP	SIP	Session Initiation Protocol without TLS.
5061	TCP	SIP TLS	SIP over TLS.
5432	TCP	PostgreSQL	Common PostgreSQL database port.
5671	TCP	AMQP TLS	AMQP over TLS.
5672	TCP	AMQP	Advanced Message Queuing Protocol.
5900	TCP	VNC	Common Virtual Network Computing display port.
5985	TCP	WinRM HTTP	Windows Remote Management over HTTP.
5986	TCP	WinRM HTTPS	Windows Remote Management over HTTPS.
6379	TCP	Redis	Common Redis database port; secure exposure carefully.
6514	TCP	Syslog TLS	Common syslog over TLS assignment.
8080	TCP	HTTP alternate	Common alternate web/proxy port; application-defined.
8443	TCP	HTTPS alternate	Common alternate TLS web port; application-defined.
9200	TCP	Elasticsearch HTTP	Common Elasticsearch REST API port; application-defined.
9300	TCP	Elasticsearch transport	Common Elasticsearch node transport port; application-defined.
11211	TCP/UDP	Memcached	Common Memcached port; avoid untrusted exposure.
27017	TCP	MongoDB	Common MongoDB database port.
37	TCP/UDP	Time	Legacy time protocol.
42	TCP/UDP	Host Name Server	Historic name service assignment.
43	TCP	WHOIS	Registry/registrar query service.
49	TCP/UDP	TACACS	Terminal Access Controller Access-Control System.
70	TCP	Gopher	Historic Gopher protocol.
79	TCP	Finger	Legacy user-information service.
109	TCP	POP2	Historic mail retrieval.
113	TCP	Ident	Identification protocol.
119	TCP	NNTP	Network News Transfer Protocol.
194	TCP	IRC	Internet Relay Chat.
264	TCP	BGMP	Border Gateway Multicast Protocol assignment.
318	TCP/UDP	TSP	Time Stamp Protocol assignment.
427	TCP/UDP	SLP	Service Location Protocol.
548	TCP	AFP	Apple Filing Protocol.
554	TCP/UDP	RTSP	Real Time Streaming Protocol.
623	UDP	IPMI RMCP	Remote management/control protocol used by BMCs.
989	TCP	FTPS data	FTP data over TLS.
990	TCP	FTPS control	FTP control over TLS.
1080	TCP	SOCKS	SOCKS proxy.
1900	UDP	SSDP	UPnP discovery.
2000	TCP	Cisco SCCP	Skinny Client Control Protocol commonly associated with Cisco voice.

Port	Transport	Service / Protocol	Operational note
2375	TCP	Docker API plaintext	Unencrypted Docker daemon API when configured; high risk if exposed.
2376	TCP	Docker API TLS	Docker daemon API over TLS when configured.
2427	UDP	MGCP gateway	Media Gateway Control Protocol.
2483	TCP	Oracle TNS	Oracle database service assignment.
2484	TCP	Oracle TNS SSL	Oracle database service over SSL/TLS assignment.
3544	UDP	Teredo	IPv6 transition tunneling.
3702	UDP	WS-Discovery	Web Services Dynamic Discovery.
4369	TCP	Erlang Port Mapper	EPMD service.
5353	UDP	mDNS	Multicast DNS.
5355	UDP	LLMNR	Link-Local Multicast Name Resolution.
6443	TCP	Kubernetes API	Common Kubernetes API server port.
8000	TCP	Application HTTP	Common development/application web port; not a single standardized service.
8883	TCP	MQTT TLS	MQTT over TLS.
9418	TCP	Git	Git native protocol.
10000	TCP	Webmin	Common Webmin administration port; application-defined.
10050	TCP	Zabbix agent	Common Zabbix agent port.
10051	TCP	Zabbix server	Common Zabbix server/trapper port.
15672	TCP	RabbitMQ management	Common RabbitMQ management HTTP interface; application-defined.
20000	TCP	DNP3	Common DNP3 TCP deployment port in industrial environments.
44818	TCP/UDP	EtherNet/IP	Common CIP/EtherNet-IP port.
47808	UDP	BACnet/IP	Common BACnet/IP port.
502	TCP	Modbus/TCP	Modbus over TCP.
1883	TCP	MQTT	MQTT messaging without TLS.
8888	TCP	Application HTTP alternate	Common application/development port; application-defined.
12345	TCP/UDP	Application-defined	Frequently used by custom applications; not a universal service.

Authoritative references

Use vendor and standards documentation for exact syntax, current behavior, version-specific details, licensing, and policy requirements.

IANA Service Name and Transport Protocol Port Number Registry

https://www.iana.org/assignments/service-names-port-numbers/

RFC 6335

https://www.rfc-editor.org/rfc/rfc6335