

TCP/UDP Port Reference

The ports every network & security engineer must know cold — with the security note that matters.

Port	Proto	Service	Note
20	TCP	FTP data	Clear text — prefer SFTP
21	TCP	FTP control	Clear-text logins
22	TCP	SSH	Secure remote access, SFTP/SCP
23	TCP	Telnet	Never use — clear text; use SSH
25	TCP	SMTP	Server-to-server mail
53	TCP/UDP	DNS	Queries UDP; zone transfers TCP
67	UDP	DHCP server	Leases IPs
68	UDP	DHCP client	Requests IPs
69	UDP	TFTP	No auth — IOS images on mgmt nets
80	TCP	HTTP	Unencrypted web → redirect to 443
88	TCP/UDP	Kerberos	AD authentication
110	TCP	POP3	Use POP3S 995
123	UDP	NTP	Time sync
143	TCP	IMAP	Use IMAPS 993
161	UDP	SNMP	Use v3 with auth+priv
162	UDP	SNMP trap	Device alerts
179	TCP	BGP	Internet routing
389	TCP/UDP	LDAP	Use LDAPS 636
443	TCP	HTTPS	TLS web
445	TCP	SMB	Never expose — ransomware vector
465	TCP	SMTPTS	Legacy TLS submission
500	UDP	IKE/IPsec	VPN key exchange
514	UDP	Syslog	Logging
520	UDP	RIP	Legacy routing
587	TCP	SMTP submission	Auth + STARTTLS
636	TCP	LDAPS	Encrypted directory
993	TCP	IMAPS	Encrypted mail read
995	TCP	POP3S	Encrypted mail download
1194	UDP	OpenVPN	VPN tunnel
1433	TCP	MS SQL	Never expose
1812	UDP	RADIUS auth	AAA

1813	UDP	RADIUS acct	AAA accounting
3306	TCP	MySQL	Bind privately
3389	TCP	RDP	Top attack target — VPN+MFA only
5060	TCP/UDP	SIP	VoIP signalling — TLS on 5061
5432	TCP	PostgreSQL	Bind privately

Rule of thumb: 0–1023 well-known · 1024–49151 registered · 49152–65535 ephemeral. Full pages per port:
attilatechnologies.in/tcp-udp-port-reference.html

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