CYBERQUIZZER CHEAT SHEET

Common Ports & Protocols

The well-known TCP/UDP ports every IT and security pro should know, grouped by service. A filled dot marks protocols that are encrypted by default.

Scan to drill this sheet

Secure vs insecure pairs

Exam favourites — know both halves of every pair.

Telnet	23	HTTP	80	FTP	21	LDAP	389	IMAP	143	POP3	110	SMTP	25
SSH	22	HTTPS	443	SFTP	22	LDAPS	636	IMAPS	993	POP3S	995	SMTPS	465

WEB

80	TCP	HTTP	Unencrypted web traffic
443	TCP	HTTPS ●	Encrypted web (TLS)
8080	TCP	HTTP alt	Proxies, dev servers
8443	TCP	HTTPS alt ●	Admin consoles

EMAIL

25	TCP	SMTP	Server-to-server relay
587	TCP	SMTP submit	Client mail, STARTTLS
465	TCP	SMTPS ●	Implicit TLS submission
110	TCP	POP3	Retrieve mail (legacy)
995	TCP	POP3S ●	POP3 over TLS
143	TCP	IMAP	Sync mail, cleartext
993	TCP	IMAPS ●	IMAP over TLS

FILE TRANSFER & SHARING

20	TCP	FTP data	File-transfer channel
21	TCP	FTP control	Commands — cleartext
69	UDP	TFTP	Trivial FTP — no auth
139	TCP	NetBIOS Session	Legacy Windows shares
445	TCP	SMB	Windows file sharing
2049	TCP/UDP	NFS	Unix network file system
9418	TCP	Git	Git protocol — no auth

REMOTE ACCESS

22	TCP	SSH ●	Shell, tunnels, SFTP
23	TCP	Telnet	Legacy shell — cleartext
135	TCP/UDP	MS RPC	Windows endpoint mapper
3389	TCP/UDP	RDP ●	Windows Remote Desktop
5900	TCP	VNC	Cross-platform desktop

NAME, DIRECTORY & AUTH

53	TCP/UDP	DNS	Name resolution (TCP = AXFR)
43	TCP	WHOIS	Registration lookups
389	TCP/UDP	LDAP	Directory queries, plain
636	TCP	LDAPS ●	LDAP over TLS
49	TCP	TACACS+ ●	Cisco device AAA
88	TCP/UDP	Kerberos ●	AD authentication tickets
1812	UDP	RADIUS	AAA (1813 = accounting)

CORE NETWORK SERVICES

67	UDP	DHCP server	Hands out IP leases
68	UDP	DHCP client	Receives IP leases
123	UDP	NTP	Time synchronization
137	UDP	NetBIOS Name	Legacy name service
138	UDP	NetBIOS Dgram	Legacy datagrams
161	UDP	SNMP	Device polling
162	UDP	SNMP Trap	Async device alerts
514	UDP	Syslog	Centralized logging
179	TCP	BGP	Routing between AS
9100	TCP	JetDirect	Raw network printing

DATABASES

1433	TCP	MS SQL Server	Microsoft SQL
1521	TCP	Oracle	Database listener
3306	TCP	MySQL	MySQL / MariaDB
5432	TCP	PostgreSQL	PostgreSQL
6379	TCP	Redis	In-memory key-value
27017	TCP	MongoDB	NoSQL documents
11211	TCP/UDP	Memcached	Distributed cache

VPN & TUNNELING

500	UDP	IKE / IPsec ●	Key exchange (ISAKMP)
4500	UDP	IPsec NAT-T ●	IPsec through NAT
1194	TCP/UDP	OpenVPN ●	OpenVPN default
1701	UDP	L2TP	Paired with IPsec
1723	TCP	PPTP	Legacy VPN — insecure
51820	UDP	WireGuard ●	Modern, fast VPN

MESSAGING, MEDIA & OTHER

502	TCP	Modbus	ICS / SCADA control
554	TCP/UDP	RTSP	Streaming media control
1883	TCP	MQTT	IoT pub/sub messaging
4444	TCP	Metasploit	Reverse shell / C2 default
5060	TCP/UDP	SIP	VoIP call signaling
6667	TCP	IRC	Internet Relay Chat
9092	TCP	Kafka	Event-streaming broker