

Cisco CCIE Enterprise Infrastructure Ports Sheet

High-yield ports and services for routing, AAA, monitoring, overlays, VPNs, and model-driven management.

Best for Fast port memorization	Focus Port / protocol / service / use case	Use with Use with commands sheet and quick summary
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Port	Protocol	Name	Use case
22	TCP	SSH	Secure device management and automation transport
49	TCP	TACACS+	Admin AAA for network devices
53	TCP/UDP	DNS	Name resolution and service dependency
67/68	UDP	DHCP	Dynamic addressing
69	UDP	TFTP	Simple image/config transfer
80	TCP	HTTP	Legacy web/API baseline
123	UDP	NTP	Time sync for logs, certs, auth
161/162	UDP	SNMP	Polling and traps
179	TCP	BGP	Routing peering
389	TCP/UDP	LDAP	Directory integration
443	TCP	HTTPS	Secure web/API/controller access
514	UDP	Syslog	Centralized logging
636	TCP	LDAPS	Secure LDAP
830	TCP	NETCONF	Model-driven config over SSH
1812/1813	UDP	RADIUS	Access AAA
500	UDP	IKE	VPN negotiation
4500	UDP	IPsec NAT-T	IPsec through NAT
4789	UDP	VXLAN	Overlay encapsulation reference
5060/5061	UDP/TCP	SIP	Voice signaling context
6640	TCP	LISP	Fabric/SD-Access related control-plane context

Exam traps

179 TCP BGP is TCP-based, so transport behavior matters in peering troubleshooting.

4789 UDP VXLAN is overlay encapsulation, not a generic routing control protocol.

830 TCP NETCONF rides over SSH, which ties automation back to secure management.

500/4500 UDP IKE and NAT-T both matter in VPN design and operations.