

Ford's Notes: Protocols and Ports

A very wise teacher once said to me that if a network service is mentioned in the list of objectives for a course or exam, I should definitely know the network protocol and port the service uses. This is a list of services and their associated protocols and ports used based on the CompTIA Security+, CySA+, and CASP+ exam objectives.

Ports and Protocols

Protocol Name	Over Protocol	Port Number	Notes
FTP	TCP	20, 21	File Transfer Protocol
FTP Data Transfer	TCP	20	File Transfer Protocol data path
FTP Command Control	TCP	21	FTP command message path
SSH	TCP	22	Secure Shell (Note SCP and SFTP also runs on port 22.)
Telnet	TCP	23	Network Terminal Emulation protocol.
SMTP	TCP, UDP	25	Simple Mail Transfer Protocol.
TACACS+	TCP	49	Terminal Access Controller Access-Control System
DNS	TCP, UDP	53	Domain Name Service
DHCP	UDP	67, 68	Dynamic Host Configuration Protocol
TFTP	UDP	69	Trivial File Transfer Protocol
HTTP	TCP	80	Hyper Text Transfer Protocol
Kerberos	UDP (fallback to TCP)	88	A network authentication protocol
POP3	TCP	110	Post Office Protocol version 3
NTP	UDP	123	Network Time Protocol
NetBIOS	TCP, UDP	137, 138, 139	Network Basic Input/Output System
IMAP	TCP	143	Internet Message Access Protocol
SNMP	UDP	161, 162	Simple Network Management Protocol

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LDAP	TCP, UDP	389	Lightweight Directory Access Protocol
BGP	TCP	179	Border Gateway Protocol
HTTPS	TCP	443	HTTP over SSH or HTTP Secure
NBNS or WINS	TCP	445	NetBIOS Name Service or Windows Internet Name Service
Secure SMTP	TCP	465	Simple Mail Transfer Protocol
Secure POP3	TCP	995	Secure Post Office Protocol
Secure IMAP	TCP	993	Secure Internet Message Access Protocol
RADIUS	TCP, UDP	1812	A network authentication protocol
RDP	TCP	3389	Remote Desktop Protocol