

Every well-known port for the SY0-701 exam, grouped by service. The secure and insecure pairs below are the ones examiners love to test.

Port color key: **green** = encrypted, **amber** = cleartext (replace it), **blue** = standard service.

Secure vs insecure pairs

HTTP 80 to **HTTPS** 443
FTP 20/21 to **SFTP or FTPS** 22 or 989/990
Telnet 23 to **SSH** 22
SMTP 25 to **SMTPS or submission** 465 or 587
POP3 110 to **POP3S** 995
IMAP 143 to **IMAPS** 993
LDAP 389 to **LDAPS** 636
DNS 53 to **DoH or DoT** 443 or 853
SNMP v1/v2c 161/162 to **SNMPv3** 161/162
Syslog 514 to **Syslog over TLS** 6514

Web

80 TCP **HTTP** Hypertext Transfer Protocol
443 TCP **HTTPS** HTTP over TLS

Email

25 TCP **SMTP** Simple Mail Transfer Protocol
587 TCP **SMTP submission** Mail submission with STARTTLS
465 TCP **SMTPS** SMTP over TLS (implicit)
110 TCP **POP3** Post Office Protocol v3
995 TCP **POP3S** POP3 over TLS
143 TCP **IMAP** Internet Message Access Protocol
993 TCP **IMAPS** IMAP over TLS

File transfer

20/21 TCP **FTP** File Transfer Protocol
989/990 TCP **FTPS** FTP over TLS (implicit)
22 TCP **SFTP** SSH File Transfer Protocol
69 UDP **TFTP** Trivial File Transfer Protocol

Remote access

22 TCP **SSH** Secure Shell
23 TCP **Telnet** Telnet
3389 TCP **RDP** Remote Desktop Protocol

Name and network services

53 TCP/UDP **DNS** Domain Name System
853 TCP **DoT** DNS over TLS
67/68 UDP **DHCP** Dynamic Host Configuration Protocol
123 UDP **NTP** Network Time Protocol

Directory and authentication

389 TCP/UDP **LDAP** Lightweight Directory Access Protocol
636 TCP **LDAPS** LDAP over TLS
88 TCP/UDP **Kerberos** Kerberos authentication
1812/1813 UDP **RADIUS** Remote Authentication Dial-In User Service
49 TCP **TACACS+** Terminal Access Controller Access-Control System Plus

Monitoring and logging

161/162 UDP **SNMP** Simple Network Management Protocol
514 UDP **Syslog** Syslog
6514 TCP **Syslog over TLS** Secure syslog

File and database services

445 TCP **SMB** Server Message Block
137-139 TCP/UDP **NetBIOS** NetBIOS name, datagram, and session services
1433 TCP **MS SQL Server** Microsoft SQL Server

Voice and video

5060/5061 TCP/UDP **SIP** Session Initiation Protocol