

A+ 220-1201 / 220-1202 Ports Sheet

High-yield ports for Core 1 networking questions and help desk troubleshooting.

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| Best for Rapid port review | Focus Protocol - service - use case | Use with Cheat sheet + commands sheet |
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1. Common ports to know

| Port | Protocol | Name | Use case |
|---------|----------|-----------------|--------------------------------------|
| 20/21 | TCP | FTP | file transfer, control plus data |
| 22 | TCP | SSH / SFTP | secure remote shell and file copy |
| 23 | TCP | Telnet | legacy remote console, insecure |
| 25 | TCP | SMTP | outbound mail transfer |
| 49 | TCP | TACACS+ | centralized device admin |
| 53 | TCP/UDP | DNS | name resolution |
| 67/68 | UDP | DHCP | address lease process |
| 69 | UDP | TFTP | simple file transfer, device images |
| 80 | TCP | HTTP | web traffic |
| 110 | TCP | POP3 | download mail |
| 123 | UDP | NTP | time sync |
| 137-139 | TCP/UDP | NetBIOS | legacy Windows name/session services |
| 143 | TCP | IMAP | server-side mail access |
| 161/162 | UDP | SNMP | monitoring and traps |
| 389 | TCP/UDP | LDAP | directory queries |
| 443 | TCP | HTTPS | secure web |
| 445 | TCP | SMB/CIFS | Windows file sharing |
| 465 | TCP | SMTPS | encrypted SMTP |
| 514 | UDP | Syslog | log forwarding |
| 587 | TCP | SMTP submission | authenticated mail send |
| 636 | TCP | LDAPS | encrypted LDAP |
| 993 | TCP | IMAPS | encrypted IMAP |
| 995 | TCP | POP3S | encrypted POP3 |
| 1433 | TCP | MS SQL Server | database service |
| 1521 | TCP | Oracle listener | database service |
| 3306 | TCP | MySQL / MariaDB | database service |
| 3389 | TCP/UDP | RDP | remote desktop |
| 5900 | TCP | VNC | remote screen control |
| 8080 | TCP | Alt HTTP | web proxy or admin |
| 8443 | TCP | Alt HTTPS | secure admin page |

2. Exam traps

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| HTTP vs HTTPS | 80 is plain HTTP, 443 is HTTPS. Alternate admin pages may use 8080 or 8443. |
| POP3 vs IMAP | POP3 is download-centric; IMAP keeps mailbox state on the server. |

TCP vs UDP

DNS can use both, but DHCP, TFTP, SNMP, NTP, and Syslog commonly show up as UDP.