Types of Servers Cheat Sheet

Web Server



Function: Hosts websites and serves web pages to clients (browsers).

Examples: Apache HTTP Server, Nginx, Microsoft IIS. **Protocols:** HTTP, HTTPS.

Application Server

Function: Hosts & runs applications, providing business logic to client applications.

Examples: Apache Tomcat, JBoss, WebLogic.

Protocols: HTTP, HTTPS, RMI (Remote Method Invocation).

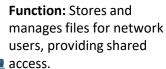
Database Server

Function: Provides database services to other computers /applications.

Examples: MySQL,

PostgreSQL, Microsoft SQL Server, Oracle Database. **Protocols:** SQL, TDS

File Server



Examples: Windows Server,

Samba, NetApp. **Protocols:** SMB, NFS, AFP.

Mail Server

Function: Sends, receives, and stores email for clients.

Examples: Microsoft Exchange, Postfix,

Sendmail.

Protocols: SMTP, IMAP, POP3 (Post Office Protocol

3).

Proxy Server



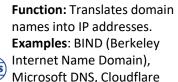
Function: Acts as an intermediary for requests between clients & servers, improving security & performance.

Examples: Squid, HAProxy, Nginx (configured as a reverse

proxy).

Protocols: HTTP, HTTPS, FTP.

DNS Server



DNS.

Protocols: DNS

FTP Server



Function: Facilitates the transfer of files using the File Transfer Protocol.

Examples: vsftpd, ProFTPD,

FileZilla Server.

Protocols: FTP, FTPS

Virtualization Server



Function: Hosts virtual machines & manages virtual environments.

Examples: VMware ESXi, Microsoft Hyper-V, KVM Protocols: Various, including VM-specific management protocols.

Game Server



Steam Dedicated Server, Unreal Engine Server.

Protocols: Game-specific protocols (e.g., TCP/UDP).

Chat Server



Function: Facilitates realtime communication between users.

Examples: IRC servers, Slack, Discord.

Protocols: XMPP (Extensible Messaging and Presence Protocol), IRC.

Media Server



Function: Streams audio and video content to clients. **Examples:** Plex, Emby,

Jellyfin.

Protocols: HTTP, RTSP, DLNA (Digital Living Network Alliance).

Monitoring Server



Function: Track network performance, detect failures Examples: Nagios, Zabbix, PRTG Network Monitor, Cisco DNA Center Protocols: SNMP, ICMP,

Protocols: SNMP, ICMP, NetFlow / sFlow / IPFIX, Syslog, HTTP/S & REST APIs, SSH

Print Server



Function: Manages and distributes print jobs within a network.

Examples: CUPS (Common UNIX Printing System), Windows Print Server.

Protocols: IPP (Internet Printing Protocol), LPD/LPR

Authentication Server



Function: Manages user authentication and authorization.

Examples: Microsoft Active Directory, OpenLDAP, RADIUS

server.

Protocols: LDAP, RADIUS



