SSH (Secure Shell)

Port: 22

Purpose: Used for secure remote login and command execution on Linux servers.

Use Case: Admin access to servers, deploying code, configuration management.

Example Tool: ssh, scp, rsync.

HTTP (Hypertext Transfer Protocol)

Port: 80

Purpose: Used by web servers to serve unencrypted HTTP traffic.

Use Case: Web applications, load balancing, reverse proxy setup.

Example Tool: nginx, apache2.

HTTPS (Hypertext Transfer Protocol Secure)

Port: 443

Purpose: Encrypted web traffic, used for secure communications.

Use Case: Hosting secure web applications, SSL/TLS termination.

Example Tool: nginx, apache2, lets encrypt.

FTP (File Transfer Protocol)

Port: 21

Purpose: Used for transferring files between servers.

Use Case: File transfer between systems (though often replaced by SFTP for security reasons).

Example Tool: vsftpd, proftpd.

SFTP (SSH File Transfer Protocol)

Port: 22 (Same as SSH)

Purpose: Secure file transfer using SSH.

Use Case: Secure file uploads/downloads to remote systems.

DNS (Domain Name System)

Port: 53

Purpose: Resolves domain names to IP addresses.

Use Case: Networking, troubleshooting, service discovery.

Example Tool: bind9, dnsmasq, systemd-resolved.

MySQL / MariaDB

Port: 3306

Purpose: Default port for MySQL and MariaDB databases.

Use Case: Database management, application backends.

Example Tool: mysql, mariadb.

PostgreSQL

Port: 5432

Purpose: Default port for PostgreSQL databases.

Use Case: Application backends, data storage.

Example Tool: postgresql.

Redis

Port: 6379

Purpose: Default port for Redis in-memory data store.

Use Case: Caching, message brokering, session management.

Example Tool: redis-server.

MongoDB

Port: 27017

Purpose: Default port for MongoDB NoSQL database.

Use Case: NoSQL data storage.

Example Tool: mongod.

Jenkins

Port: 8080

Purpose: Default port for Jenkins CI/CD server.

Use Case: Continuous integration and deployment.

Example Tool: jenkins.

Docker

Port: 2375 (unencrypted), 2376 (encrypted)

Purpose: Default port for Docker daemon's REST API.

Use Case: Docker container orchestration, remote management.

Example Tool: docker, docker-compose.

Kubernetes API Server

Port: 6443

Purpose: Default port for the Kubernetes API server.

Use Case: Kubernetes cluster management, service discovery.

Example Tool: kubectl, helm.

ElasticSearch

Port: 9200 (HTTP), 9300 (Internal communication)

Purpose: Default port for Elasticsearch REST API and cluster communication.

Use Case: Full-text search, log aggregation.

Example Tool: elasticsearch.

RabbitMQ
Port: 5672
Purpose: Default AMQP (Advanced Message Queuing Protocol) port.
Use Case: Messaging queues, event-driven architectures.
Example Tool: rabbitmq.