



PORT NUMBERS FOR EVERY DEVOPS ENGINEER



Essential Port Numbers for DevOps Engineers

Common Protocols and Services

1. HTTP:

- **Port:** 80
- **Purpose:** Unsecured web traffic.

2. HTTPS:

- **Port:** 443
- **Purpose:** Secure web traffic (TLS/SSL).

3. SSH:

- **Port:** 22
- **Purpose:** Secure shell access for remote administration.

4. FTP:

- **Port:** 20 (data transfer), 21 (control)
- **Purpose:** File Transfer Protocol.

5. SFTP:

- **Port:** 22
- **Purpose:** Secure FTP via SSH.

6. Telnet:

- **Port:** 23
 - **Purpose:** Unsecured remote administration (rarely used now).
7. **DNS:**
- **Port:** 53
 - **Purpose:** Domain Name System resolution.
8. **SMTP:**
- **Port:** 25, 587 (with encryption), 465 (deprecated)
 - **Purpose:** Email sending.
9. **IMAP:**
- **Port:** 143 (unencrypted), 993 (encrypted)
 - **Purpose:** Retrieve emails (modern email clients).
10. **POP3:**
- **Port:** 110 (unencrypted), 995 (encrypted)
 - **Purpose:** Retrieve emails (older protocol).

DevOps and Automation Tools

1. **Jenkins:**
- **Port:** 8080 (default)
 - **Purpose:** Continuous Integration/Delivery.
2. **Docker:**
- **Port:** 2375 (unencrypted), 2376 (encrypted)
 - **Purpose:** Docker API.
3. **Kubernetes API Server:**
- **Port:** 6443
 - **Purpose:** Communication with Kubernetes API.
4. **Terraform Enterprise:**
- **Port:** 8800 (default)
 - **Purpose:** Backend services.

Databases

1. **MySQL:**

- **Port:** 3306
 - **Purpose:** MySQL database.
2. **PostgreSQL:**
 - **Port:** 5432
 - **Purpose:** PostgreSQL database.
 3. **MongoDB:**
 - **Port:** 27017
 - **Purpose:** MongoDB NoSQL database.
 4. **Redis:**
 - **Port:** 6379
 - **Purpose:** In-memory data store.
 5. **Elasticsearch:**
 - **Port:** 9200 (HTTP), 9300 (Node communication)
 - **Purpose:** Search and analytics engine.

Cloud and Monitoring Tools

1. **Prometheus:**
 - **Port:** 9090
 - **Purpose:** Monitoring and alerting.
2. **Grafana:**
 - **Port:** 3000
 - **Purpose:** Data visualization and dashboards.
3. **Consul:**
 - **Port:** 8500 (HTTP API), 8600 (DNS queries)
 - **Purpose:** Service discovery and configuration.
4. **Vault:**
 - **Port:** 8200
 - **Purpose:** Secrets management.
5. **Zabbix:**
 - **Port:** 10051 (server), 10050 (agent)

- **Purpose:** Monitoring.

Version Control

1. Git (SSH):

- **Port:** 22
- **Purpose:** Secure Git operations.

2. Git (HTTPS):

- **Port:** 443
- **Purpose:** Secure Git operations via HTTPS.

Messaging and Queueing Systems

1. RabbitMQ:

- **Port:** 5672 (AMQP), 15672 (Management console)
- **Purpose:** Message broker.

2. Kafka:

- **Port:** 9092
- **Purpose:** Distributed messaging system.

Miscellaneous

1. NTP:

- **Port:** 123
- **Purpose:** Network Time Protocol.

2. LDAP:

- **Port:** 389 (unencrypted), 636 (encrypted)
- **Purpose:** Directory services.

3. SNMP:

- **Port:** 161 (queries), 162 (traps)
- **Purpose:** Network monitoring.

4. RDP:

- **Port:** 3389
- **Purpose:** Remote Desktop Protocol (Windows).

