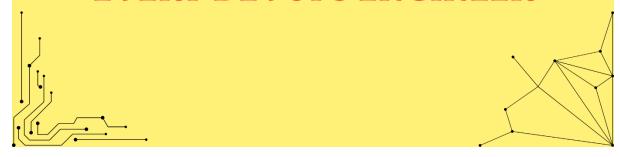


# PORT NUMBERS FOR EVERY DEVOPS ENGINEER



# **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).