

**Objective:** Configure and test basic firewall rules to allow/block specific network traffic using:

:Windows Firewall

:UFW (Uncomplicated Firewall) on Linux

**Linux (UFW): Configuration**

**INPUT:**

**# Install and enable UFW**

**sudo apt update**

**sudo apt install ufw**

**sudo ufw enable**

**# Set default policies**

**sudo ufw default deny incoming**

**sudo ufw default allow outgoing**

**# Allow SSH, HTTP**

**sudo ufw allow ssh**

**sudo ufw allow 80/tcp**

**# Deny specific IP**

**sudo ufw deny from 192.168.1.100**

**# Check status**

**sudo ufw status numbered**

**OUTPUT:**

**sudo ufw status verbose > ufw\_rules.txt**

**history | grep ufw > ufw\_commands\_log.txt**

## **2. For Windows Firewall (PowerShell)**

### **Add & View Firewall Rules via PowerShell**

**powershell**

**Copy code**

**Allow inbound HTTP**

**New-NetFirewallRule -DisplayName "Allow HTTP" -Direction Inbound -Protocol TCP -  
LocalPort 80 -Action Allow**

**Block traffic from specific IP**

**New-NetFirewallRule -DisplayName "Block IP" -Direction Inbound -RemoteAddress  
192.168.1.100 -Action Block**

**Export all rules (text)**

**Get-NetFirewallRule | Format-Table -AutoSize > firewall\_rules.txt**

### **Windows Firewall Configuration**

**:Allowed: HTTP inbound on port 80**

**: Blocked: Inbound traffic from 192.168.1.100**

### **PowerShell Commands Used**

**powershell**

**Copy code**

**New-NetFirewallRule -DisplayName "Allow HTTP" -Direction Inbound -Protocol TCP -  
LocalPort 80 -Action Allow**

**New-NetFirewallRule -DisplayName "Block IP" -Direction Inbound -RemoteAddress  
192.168.1.100 -Action Block**

## **Basic Firewall Configuration (Windows & Linux)**

### **Objective**

To configure and test basic firewall rules to:

- Allow specific ports (e.g., SSH, HTTP)
- Block certain IP addresses

### **Linux (UFW) Configuration**

Default policy: Deny incoming, Allow outgoing

Allowed: SSH (port 22), HTTP (port 80)

Blocked: IP 192.168.1.100

### **Commands Used**

```
``bash
```

```
sudo ufw default deny incoming
```

```
sudo ufw allow 22/tcp
```

```
sudo ufw allow 80/tcp
```

```
sudo ufw deny from 192.168.1.100
```