SETUP

Install and Configure SSH on IPFire

- apt-get update
- apt-get install openssh-server
- nano /etc/ssh/sshd_config
- PermitRootLogin yes
- PasswordAuthentication yes
- service sshd restart

Install SSH Client on Device A and Device B

- apt-get update
- apt-get install openssh-client

Assign Static IPs to IPFire Interfaces

- ip addr add 192.168.1.1/24 dev eth0
- ip addr add 203.0.113.1/24 dev eth1

Enable SSH Access on IPFire

- nano /etc/ssh/sshd_config
- PermitRootLogin yes
- PasswordAuthentication yes
- service sshd restart

Configure Port Forwarding on IPFire

1. Access the IPFire web interface.

2. Navigate to Firewall > Port Forwarding.

3. Add a rule with:

   Source: Any

   Destination: IPFire RED IP

   Protocol: TCP

   Destination Port: 22

Add Firewall Rules on IPFire

1. Navigate to Firewall > Rules.

2. Add a rule with:

   Action: Allow

   Protocol: TCP

   Source Zone: GREEN

   Destination Zone: RED

   Port: 22

Establish Reverse SSH on Device A

- ssh-keygen -t rsa
- ssh-copy-id user@<IPFire_IP>
- ssh -R 2222:localhost:22 user@<IPFire_IP>

Connect to Device A from Device B

- ssh-keygen -t rsa

- ssh-copy-id user@<IPFire_IP>
- ssh -p 2222 user@<IPFire_IP>