Packet Tracer - Configure OSPF Authentication

# Addressing Table

| Device | Interface | IP Address | Subnet Mask | Default Gateway | Switch Port |
| --- | --- | --- | --- | --- | --- |
| R1 | G0/0/0 | 10.1.1.1 | 255.255.255.252 | N/A | N/A |
| R1 | G0/0/1 | 192.168.1.1 | 255.255.255.0 | N/A | S1 F0/5 |
| R2 | G0/0/0 | 10.1.1.2 | 255.255.255.252 | N/A | N/A |
| R2 | G0/0/1 | 10.2.2.2 | 255.255.255.252 | N/A | N/A |
| R3 | G0/0/0 | 10.2.2.1 | 255.255.255.252 | N/A | N/A |
| R3 | G0/0/1 | 192.168.3.1 | 255.255.255.0 | N/A | S3 F0/5 |
| PC-A | NIC | 192.168.1.5 | 255.255.255.0 | 192.168.1.1 | S1 F0/6 |
| PC-B | NIC | 192.168.1.6 | 255.255.255.0 | 192.168.1.1 | S2 F0/18 |
| PC-C | NIC | 192.168.3.5 | 255.255.255.0 | 192.168.3.1 | S3 F0/18 |

Blank Line, No additional information

# Objectives

* Configure OSPF MD5 authentication.

# Background / Scenario

In this activity, you will configure OSPF MD5 authentication for secure routing updates.

# Instructions

## Configure OSPF MD5 Authentication

### Test connectivity. All devices should be able to ping all other IP addresses.

### Configure OSPF MD5 authentication for all the routers in area 0.

Configure OSPF MD5 authentication for all the routers in area 0.

R1(config)# **router ospf 1**

R1(config-router)# **area 0 authentication message-digest**

### Configure the MD5 key for all the routers in area 0.

Configure an MD5 key on the GigabitEthernet interfaces on **R1**, **R2** and **R3**. Use the password **MD5pa55** for key **1**.

R1(config)# **interface g0/0/0**

R1(config-if)# **ip ospf message-digest-key 1 md5 MD5pa55**

### Verify configurations.

* + - 1. Verify the MD5 authentication configurations using the commands **show ip ospf interface**.
      2. Verify end-to-end connectivity.

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