

# EIGRP Configuration

## Syntax & Configuration Commands

### EIGRP Configuration Syntax

*Router(config)#router eigrp <ASN>*

*Router(config-router)#network <network address>*

### Example

*Router(config)#router eigrp 111*

*Router(config-router)#network 192.168.1.0*

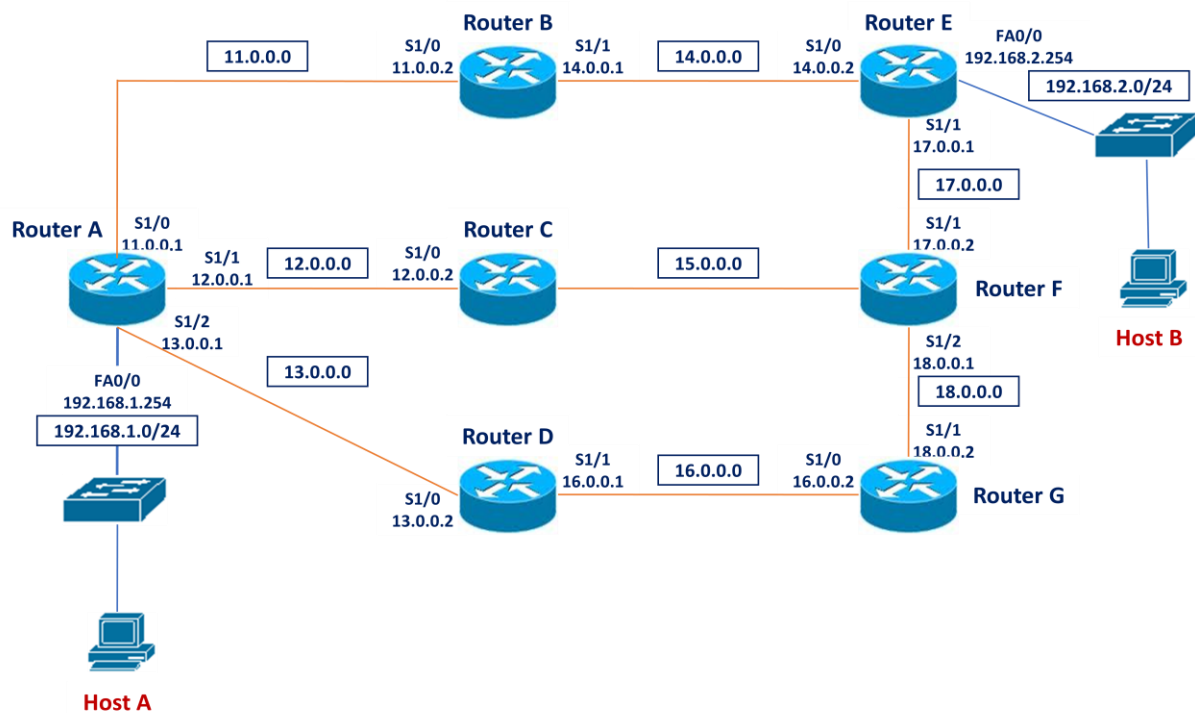


Figure - EIGRP Internetwork

# EIGRP Configuration

## Router A Configuration

```
Router> enable
Router# show ip route
Router# configure terminal
Router(config)# router eigrp
Router(config-router)# network 192.168.1.0
Router(config-router)# network 11.0.0.0
Router(config-router)# network 12.0.0.0
Router(config-router)# network 13.0.0.0
Router(config-router)# end
Router# show ip protocols
```

## Router B Configuration

```
Router> enable
Router# show ip route
Router# configure terminal
Router(config)# router eigrp
Router(config-router)# network 11.0.0.0
Router(config-router)# network 14.0.0.0
Router(config-router)# end
Router# show ip protocols
```

## Router C Configuration

```
Router> enable
Router# show ip route
Router# configure terminal
Router(config)# router eigrp
Router(config-router)# network 12.0.0.0
Router(config-router)# network 15.0.0.0
Router(config-router)# end
Router# show ip protocols
```

### **Router D Configuration**

```
Router> enable  
Router# show ip route  
Router# configure terminal  
Router(config)# router eigrp  
Router(config-router)# network 13.0.0.0  
Router(config-router)# network 16.0.0.0  
Router(config-router)# end  
Router# show ip protocols
```

### **Router E Configuration**

```
Router> enable  
Router# show ip route  
Router# configure terminal  
Router(config)# router eigrp  
Router(config-router)# network 14.0.0.0  
Router(config-router)# network 17.0.0.0  
Router(config-router)# network 192.168.2.0  
Router(config-router)# end  
Router# show ip protocols
```

### **Router F Configuration**

```
Router> enable  
Router# show ip route  
Router# configure terminal  
Router(config)# router eigrp  
Router(config-router)# network 15.0.0.0  
Router(config-router)# network 17.0.0.0  
Router(config-router)# network 18.0.0.0  
Router(config-router)# end  
Router# show ip protocols
```

### **Router G Configuration**

```
Router> enable  
Router# show ip route
```

```
Router# configure terminal
Router(config)# router eigrp
Router(config-router)# network 16.0.0.0
Router(config-router)# network 18.0.0.0
Router(config-router)# end
Router# show ip protocols
```

## Other EIGRP Configuration

Configuring EIGRP with different AD (Administrative Distance) value.

### Syntax

```
Router(config)# router eigrp <ASN>
Router(config-router)# distance eigrp <distance>
```

### Example

```
Router(config)# router eigrp 111
Router(config-router)# distance eigrp 122
```

To Extend EIGRP hops.

### Syntax

```
Router(config)# router eigrp <ASN>
Router(config-router)# metric maximum-hops <1-255>
```

### Example

```
Router(config)# router eigrp 111
Router(config-router)# metric maximum-hops 255
```

Enable automatic network number summarization.

### Syntax

```
Router(config)# router eigrp <ASN>
Router(config-router)# auto-summary
```

### Example

```
Router(config)# router eigrp 111
```

*Router(config-router)# auto-summary*

**Forward packets over multiple paths**

**Syntax**

*router(config)# router eigrp <ASN>*

*Router(config-router)# maximum-paths <1 - 16>*

**Example**

*Router(config)# router eigrp 111*

*Router(config-router)# maximum-paths 16*

**Control Load Balancing Variance**

**Syntax**

*Route(config)# router eigrp <ASN>*

*Router(config-router)# variance <1 - 128>*

**Example**

*Router(config)# router eigrp 111*

*Router(config-router)# variance 128*

**Removing RIP**

**Syntax**

*Router(config)# no router eigrp <ASN>*

**Example**

*Router(config)# show ip protocols*

*Router(config)# no router eigrp 111*