# **TOPIC-4**

# JUSTIC LEAGUE NETWORK SETUP GROUP-11

## **ROUTER IP SETUP:**

### **WAYNE MANSION:**

- Router>enable
- Router#conf t
- Router(config)#hostname wayne\_mansion
- shire(config)#no ip domain-lookup
- shire(config)#interface Fa7/0
- shire(config)#ip address 108.1.48.0 255.255.252.0
- shire(config)#no shutdown
- shire(config)#interface Se0/0
- shire(config)#ip address 108.1.48.31 255.255.255.252
- shire(config)#no shutdown
- shire(config)# interface Se1/0
- shire(config)#ip address 108.1.48.35 255.255.255.252
- shire(config)#no shutdown
- shire(config)# interface Se2/0
- shire(config)#ip address 108.1.48.41 255.255.255.252
- shire(config)#no shutdown
- shire(config)# interface Se3/0
- shire(config)#ip address 108.1.48.37 255.255.255.252
- shire(config)#no shutdown
- shire(config)# interface Se4/0
- shire(config)#ip address 108.1.52.37 255.255.255.252
- shire(config)#no shutdown

#### **Atlantis:**

- Router>enable
- Router#conf t
- Router(config)#hostname Atlantis
- Router(config)#interface Fa2/0
- Router(config)#ip address 108.1.0.0 255.255.128.0
- Router(config)#no shutdown
- Router(config)#interface Se1/0
- Router(config)#ip address 108.1.1.2 255.255.255.252
- Router(config)#no shutdown

- Router(config)#interface Se0/0
- Router(config)#ip address 108.1.1.5 255.255.255.252
- Router(config)#no shutdown

### Amazon:

- Router>enable
- Router#conf t
- Router(config)#hostname Amazon
- Router(config)#interface Fa2/0
- Router(config)#ip address 108.1.32.0 255.255.252.0
- Router(config)#no shutdown
- Router(config)#interface Se1/0
- Router(config)#ip address 108.1.32.37 255.255.255.252
- Router(config)#no shutdown
- Router(config)#interface Se0/0
- Router(config)#ip address 108.1.32.42 255.255.255.252
- Router(config)#no shutdown

### **Star Lab:**

- Router>enable
- Router#conf t
- Router(config)#hostname star\_lab
- Router(config)#interface Fa2/0
- Router(config)#ip address 108.1.56.0 255.255.254.0
- Router(config)#no shutdown
- Router(config)#interface Se0/0
- Router(config)#ip address 108.1.56.24 255.255.255.252
- Router(config)#no shutdown

# The Daily planet:

- Router>enable
- Router#conf t
- Router(config)#hostname The Daily planet
- Router(config)#interface Fa2/0
- Router(config)#ip address 108.1.52.0 255.255.252.0
- Router(config)#no shutdown
- Router(config)#interface Se0/0
- Router(config)#ip address 108.1.52.26 255.255.255.252
- Router(config)#no shutdown

# **Barry's Residence:**

- Router>enable
- Router#conf t
- Router(config)#hostname Barrys residence
- Router(config)#interface Fa2/0
- Router(config)#ip address 108.1.58.0 255.255.252.0
- Router(config)#no shutdown
- Router(config)#interface Se0/0
- Router(config)#ip address 108.1.58.28 255.255.255.252
- Router(config)#no shutdown

# Static Route Configuration:

# **Wayne mansion:**

# Static Routers are Atlantis, amazon, star lab, the daily planet and Barry's residence

- Wayne mansion>enable
- Wayne mansion #conf t
- Wayne mansion (config)#ip route 108.1.48.0 255.255.252.0 108.1.32.0
- Wayne mansion (config)#ip route 108.1.0.0 255.255.128.0 108.1.0.0
- Wayne mansion (config)#ip route 108.1.32.0 255.255.252.0 108.1.56.0
- Wayne mansion (config)#ip route 108.1.56.0 255.255.254.0 108.1.52.0
- Wayne mansion (config)#ip route 108.1.52.0 255.255.252.0 108.1.58.0

#### **Atlantis:**

# Static routers are WAN3, WAN4, WAN5, WAN6, Wayne mansion, amazon, the daily planet, barry's residence and Star Lab

Atlantis>enable

Atlantis #conf t

Atlantis(config)#ip route 108.1.48.0 255.255.252.0 108.1.32.0

Atlantis(config)#ip route 108.1.0.0 255.255.128.0 108.1.56.0

Atlantis(config)#ip route 108.1.32.0 255.255.252.0 108.1.52.0

Atlantis(config)#ip route 108.1.56.0 255.255.254.0 108.1.58.0

Atlantis(config)#ip route 108.1.52.0 255.255.252.0 108.1.48.0

Atlantis(config)#ip route 108.1.48.0 255.255.252.0 108.1.32.0

Atlantis(config)#ip route 108.1.0.0 255.255.128.0 108.1.32.0

Atlantis(config)#ip route 108.1.32.0 255.255.252.0 108.1.52.0

Atlantis(config)#ip route 108.1.56.0 255.255.254.0 108.1.56.0

# Star Lab: Wan1, Wan2, wan3, wan5, wan6, amazon, atlantis, the daily planet, barry's residence, wayne mansion

Star Lab>enable

Star Lab #conf t

Star Lab (config)#ip route 108.1.48.0 255.255.252.0 108.1.48.0

Star Lab (config)#ip route 108.1.0.0 255.255.128.0 108.1.1.5

Star Lab (config)#ip route 108.1.1.5 255.255.128.0 108.1.32.0

Star Lab (config)#ip route 108.1.52.0 255.255.252.0 108.1.52.0

Star Lab (config)#ip route 108.1.58.0 255.255.254.0 108.1.58.0

Star Lab (config)#ip route 108.1.32.0 255.255.252.0 108.1.32.0

Star Lab (config)#ip route 108.1.0.0 255.255.128.0 108.1.0.0

Star Lab (config)#ip route 108.1.56.0 255.255.252.0 108.1.52.0

Star Lab (config)#ip route 108.1.58.0 255.255.254.0 108.1.58.0

Star Lab (config)#ip route 108.1.48.0 255.255.252.0 108.1.48.0

# The daily planet: Wan1, Wan2, wan3, wan4, wan6, amazon, atlantis, barry's residence, Star Lab, wayne mansion

The daily planet>enable

The daily planet #conf t

The daily planet (config)#ip route 108.1.48.0 255.255.252.0 108.1.48.0

The daily planet (config)#ip route 108.1.0.0 255.255.128.0 108.1.1.5

The daily planet (config)#ip route 108.1.56.0 255.255.252.0 108.1.32.0

The daily planet (config)#ip route 108.1.1.5 255.255.128.0 108.1.56.0

The daily planet (config)#ip route 108.1.58.0 255.255.254.0 108.1.58.0

The daily planet (config)#ip route 108.1.32.0 255.255.252.0 108.1.32.0

The daily planet (config)#ip route 108.1.0.0 255.255.128.0 108.1.0.0

The daily planet (config)#ip route 108.1.58.0 255.255.254.0 108.1.58.0

The daily planet (config)#ip route 108.1.48.0 255.255.252.0 108.1.56.0

The daily planet (config)#ip route 108.1.56.0 255.255.254.0 108.1.48.0

# Barry's Residence: Wan1, Wan2, wan3, wan5, wan4, amazon, atlantis, the daily planet, Star Lab, wayne mansion

Barry's residence>enable

Barry's residence #conf t

Barry's residence (config)#ip route 108.1.48.0 255.255.252.0 108.1.48.0

Barry's residence (config)#ip route 108.1.0.0 255.255.128.0 108.1.1.5

Barry's residence (config)#ip route 108.1.1.5 255.255.128.0 108.1.32.0

Barry's residence (config)#ip route 108.1.52.0 255.255.252.0 108.1.52.0

Barry's residence (config)#ip route 108.1.56.0 255.255.252.0 108.1.56.0

Barry's residence (config)#ip route 108.1.32.0 255.255.252.0 108.1.32.0

Barry's residence (config)#ip route 108.1.0.0 255.255.128.0 108.1.0.0

Barry's residence (config)#ip route 108.1.56.0 255.255.252.0 108.1.52.0

Barry's residence (config)#ip route 108.1.58.0 255.255.254.0 108.1.56.0

Barry's residence (config)#ip route 108.1.48.0 255.255.252.0 108.1.48.0

# <u>Dynamic Route Configuration and Default Route Configuration For Amazon:</u>

Amazon>enable

Amazon#conf t

Amazon(config)#ip route 0.0.0.0 0.0.0.0 se0/0

Amazon(config)#router rip

Amazon(config)#version 2

Amazon(config)#no auto-summary

Amazon(config)#network 108.1.0.0

Amazon(config)#network 108.1.1.2

Amazon(config)#network 108.1.1.5

Amazon(config)#end

Amazon(config)#copy run start

# **Default route configuration for other Routers:**

We are trying to handle all the missing route entries web server.

### **WAYNE MANSION:**

- Wayne mansion>enable
- Wayne mansion>#conf t
- Wayne Mansion(config)#ip route 0.0.0.0 0.0.0.0 se0/1

# **Atlantis:**

- Atlantis>enable
- Atlantis#conf t
- Atlantis# ip route 0.0.0.0 0.0.0.0 se0/0

#### Amazon:

- Amazon>enable
- Amazon#conf t
- Amazon#ip route 0.0.0.0 0.0.0.0 se0/0

## **Star Lab:**

- Star Lab>enable
- Star Lab#conf t
- Star Lan# ip route 0.0.0.0 0.0.0.0 se0/0

# The Daily planet:

- The Daily Planet>enable
- The Daily Planet#conf t
- The Daily Planet#ip route 0.0.0.0 0.0.0.0 se0/0

# **Barry's Residence:**

- Barry's Residence>enable
- Barry's Residence#conf t
- Barry's Residence# ip route 0.0.0.0 0.0.0.0 se0/0

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# Floating Route Configuration:

# **Amazon:**(Amazon -> Atlantis -> Wayne Mansion)

- Amazon>enable
- Amazon#conf t
- Amazon# ip route 0.0.0.0 0.0.0.0 se0/0 5
- Amazon# Exit

#### PING FROM EACH OTHER:

## PC0-

C:/>ping 108.1.56.3

C:/>ping 108.1.58.3

C:/>ping 108.1.32.2

C:/>ping 108.1.32.3

C:/>ping 108.1.48.2

C:/>ping 108.1.48.3

C:/>ping 108.1.52.2

C:/>ping 108.1.52.3

C:/>ping 108.1.58.2

C:/>ping 108.1.57.2

C:/>ping 108.1.57.3

#### PC1:-

C:/>ping 108.1.56.2

C:/>ping 108.1.58.3

C:/>ping 108.1.32.2

C:/>ping 108.1.32.3

C:/>ping 108.1.48.2

C:/>ping 108.1.48.3

C:/>ping 108.1.52.2

C:/>ping 108.1.52.3

- C:/>ping 108.1.58.2
- C:/>ping 108.1.57.2
- C:/>ping 108.1.57.3

## PC3:-

- C:/>ping 108.1.56.3
- C:/>ping 108.1.58.3
- C:/>ping 108.1.56.2
- C:/>ping 108.1.32.3
- C:/>ping 108.1.48.2
- C:/>ping 108.1.48.3
- C:/>ping 108.1.52.2
- C:/>ping 108.1.52.3
- C:/>ping 108.1.58.2
- C:/>ping 108.1.57.2
- C:/>ping 108.1.57.3

### PC4:-

- C:/>ping 108.1.56.3
- C:/>ping 108.1.58.3
- C:/>ping 108.1.56.2
- C:/>ping 108.1.32.2
- C:/>ping 108.1.48.2
- C:/>ping 108.1.48.3
- C:/>ping 108.1.52.2
- C:/>ping 108.1.52.3
- C:/>ping 108.1.58.2
- C:/>ping 108.1.57.2
- C:/>ping 108.1.57.3

### PC5:-

- C:/>ping 108.1.56.3
- C:/>ping 108.1.58.3
- C:/>ping 108.1.56.2
- C:/>ping 108.1.32.2
- C:/>ping 108.1.32.3
- C:/>ping 108.1.48.3
- C:/>ping 108.1.52.2
- C:/>ping 108.1.52.3
- C:/>ping 108.1.58.2
- C:/>ping 108.1.57.2

## C:/>ping 108.1.57.3

### PC6:-

C:/>ping 108.1.56.3

C:/>ping 108.1.58.3

C:/>ping 108.1.56.2

C:/>ping 108.1.32.2

C:/>ping 108.1.32.3

C:/>ping 108.1.48.2

C:/>ping 108.1.52.2

C:/>ping 108.1.52.3

C:/>ping 108.1.58.2

C:/>ping 108.1.57.2

C:/>ping 108.1.57.3

PC7:-

C:/>ping 108.1.56.3

C:/>ping 108.1.58.3

C:/>ping 108.1.56.2

C:/>ping 108.1.32.2

C:/>ping 108.1.32.3

C:/>ping 108.1.48.2

C:/>ping 108.1.48.3

C:/>ping 108.1.52.3

C:/>ping 108.1.58.2

C:/>ping 108.1.57.2

C:/>ping 108.1.57.3

#### PC8:-

C:/>ping 108.1.56.3

C:/>ping 108.1.58.3

C:/>ping 108.1.56.2

C:/>ping 108.1.32.2

C:/>ping 108.1.32.3

C:/>ping 108.1.48.2

C:/>ping 108.1.48.3

C:/>ping 108.1.52.3

C:/>ping 108.1.58.2

C:/>ping 108.1.57.2

C:/>ping 108.1.58.3

#### PC9:-

C:/>ping 108.1.56.3

C:/>ping 108.1.58.3

- C:/>ping 108.1.56.2
- C:/>ping 108.1.32.2
- C:/>ping 108.1.32.3
- C:/>ping 108.1.48.2
- C:/>ping 108.1.48.3
- C:/>ping 108.1.52.3
- C:/>ping 108.1.58.2
- C:/>ping 108.1.57.3
- C:/>ping 108.1.58.3
- PC10:-
- C:/>ping 108.1.56.3
- C:/>ping 108.1.58.3
- C:/>ping 108.1.56.2
- C:/>ping 108.1.32.2
- C:/>ping 108.1.32.3
- C:/>ping 108.1.48.2
- C:/>ping 108.1.48.3
- C:/>ping 108.1.52.3
- C:/>ping 108.1.57.3
- C:/>ping 108.1.57.2
- C:/>ping 108.1.58.3

### PC2:-

- C:/>ping 108.1.56.3
- C:/>ping 108.1.57.3
- C:/>ping 108.1.56.2
- C:/>ping 108.1.32.2
- C:/>ping 108.1.32.3
- C:/>ping 108.1.48.2
- C:/>ping 108.1.48.3
- C:/>ping 108.1.52.3
- C:/>ping 108.1.58.2
- C:/>ping 108.1.57.2
- C:/>ping 108.1.58.3