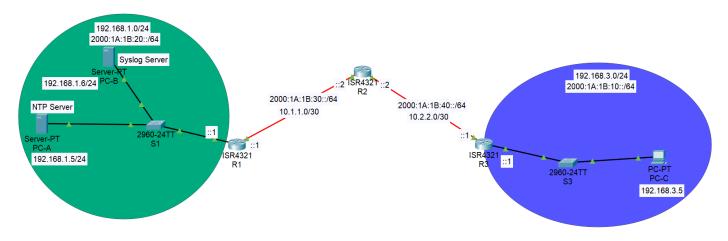
# Syslog-NTP-IPv6-OSPF-Networking

## **Network Topology**



# **Addressing Table**

Device	Interface	IP Address	Subnet/Prefix	Default Gateway
R1	S0/1/0	10.1.1.1	255.255.255.252	N/A
		2000:1A:1B:30::1	/64	N/A
	G0/0/1	192.168.1.1	255.255.255.0	N/A
		2000:1A:1B:20::1	/64	N/A
R2	S0/1/0	10.1.1.2	255.255.255.252	N/A
		2000:1A:1B:30::2	/64	N/A
	S0/1/1	10.2.2.2	255.255.255.252	N/A
		2000:1A:1B:40::2	/64	N/A
R3	S0/1/0	10.2.2.1	255.255.255.252	N/A
		2000:1A:1B:40::1	/64	N/A
	G0/0/1	192.168.3.1	255.255.255.0	N/A
		2000:1A:1B:10::1	/64	N/A
PC-A	NIC (Static)	192.168.1.5	255.255.255.0	192.168.1.1
	NIC (SLAAC)	2000:1A:1B:20:240:BFF:FEA7:A935	/64	2000:1A:1B:20::1/64
PC-B	NIC(Static)	192.168.1.6	255.255.255.0	192.168.1.1
	NIC (SLAAC)	2000:1A:1B:20:20A:F3FF:FEC5:A6C	/64	2000:1A:1B:20::1/64
PC-C	NIC (Static)	192.168.3.5	255.255.255.0	192.168.3.1
	NIC (SLAAC)	2000:1A:1B:10:201:C9FF:FEA3:E527	/64	2000:1A:1B:10::1/64

## Objectives

#### • Basic Configuration

- o Change Hostname.
- o Create Password Encrypted for Privileged EXEC Mode.
- Activate IPv6.
- o Use "2001:db8:1::/48" to meet network addressing requirements.
- o Configure interface IPv4 & IPv6 addressing.
- o Disable DNS lookup for unrecognized commands.
- Banner Message.

- o Configure Domain Name, Username and Password for SSH.
- o Encrypt all passwords.
- o Configure SLAAC for end-devices.
- Configure Dynamic Routing Protocol (OSPFv2).
- Configure Dynamic Routing Protocol (OSPFv3).
- Configure OSPF MD5 authentication.
- Configure NTP.
- Configure routers to log messages to the syslog server.
- Configure R3 to support SSH connections.

*The routers have been pre-configured with the following:* 

User: admin

Any password: 123