

Lab 2-2: IRB

In this activity, you will complete the following objectives.

Part 1: Reset System Configuration and Create User Account.

Part 2: Physical Interfaces and System Service Configuration.

Part 3: Logical Interfaces and Routing Instance Configuration.

Amnesiac (ttyu0) login: **root**

Password: (without password or “juniper123”)

--- JUNOS 10.4R1.9 built 2010-12-04 10:20:16 UTC

root@% **cli**

root>

Step 1.4 Enter the configuration mode of SRX device.

root> **configure**

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Entering configuration mode

[edit]

root# **delete**

This will delete the entire configuration Delete everything under this level? [yes,no] (no) **yes**

Part 2: Physical Interfaces and System Service Configuration

Step 2.1 Configure physical interfaces and IP addresses.

admin@SRXP> **configure**

admin@SRXP#**set system root-authentication plain-text-password**

new password:xxxxxxxx

Retry new password:xxxxxxxx

Entering configuration mode

[edit]

set interfaces irb unit 5 family inet address 192.168.5.254/24

set interfaces irb unit 5 family inet6 address 2001:288:2222:5::ff/644

set vlans Lan vlan-id 5

set vlans Lan l3-interface irb.5

set interfaces ge-0/0/2 native-vlan-id 5

set interfaces ge-0/0/2 unit 0 family ethernet-switching interface-mode trunk

set interfaces ge-0/0/2 unit 0 family ethernet-switching vlan members 5

=====
set interfaces irb unit 10 family inet address 192.168.10.254/24

set interfaces irb unit 10 family inet6 address 2001:288:2222:10::ff/644

set vlans Intra-1 vlan-id 10 l3-interface irb.10

set interfaces ge-0/0/2 unit 0 family ethernet-switching vlan members 10

=====
set interfaces irb unit 20 family inet address 192.168.20.254/24

```
set interfaces irb unit 20 family inet6 address 2001:288:2222:20::ff/644
set vlans Intra-2 vlan-id 10 l3-interface irb.20
set interfaces ge-0/0/2 unit 0 family ethernet-switching vlan members 20
```

2.2 Enable system service for your SRX device.

```
[edit]
admin@SRXP# set system services telnet
[edit]
admin@SRXP# set system services ssh
[edit]
admin@SRXP# set system services web-management http
```

Step 2.3 Disable firewall function of SRX.

```
[edit]
admin@SRXP# set security forwarding-options family mpls mode packet-based
[edit]
admin@SRXP# commit and-quit
commit complete Exiting configuration mode
```

DHCP

```
forwarding-options {
  dhcp-relay {
    server-group {
      Server_1 {
        203.72.153.8;
        203.72.153.9;
      }
      Server_2 {
        203.72.153.38;
      }
    }
    group Server_2 {
      active-server-group Server_2;
      interface irb.31;
      interface irb.32;
      interface irb.33;
      interface irb.34;
    }
    group Server_1 {
      active-server-group Server_1;
      interface irb.10;
    }
  }
}
```

```
        interface irb.20;
        interface irb.25;
        interface irb.35;
        interface irb.36;
    }
}
}
```

Local DHCP

```
system {
    services {
        dhcp-local-server {
            group DHCP_group {
                interface irb.5;
                interface irb.31;
                interface irb.32;
                interface irb.33;
                interface irb.34;
            }
        }
    }
    access {
        address-assignment {
            pool v3 {
                family inet {
                    network 10.228.120.0/24;
                    range v3 {
                        low 10.228.120.2;
                        high 10.228.120.10;
                    }
                    dhcp-attributes {
                        name-server {
                            203.72.153.153;
                            203.72.153.154;
                        }
                        router {
                            10.228.120.254;
                        }
                    }
                }
            }
        }
        pool v31 {
            family inet {
```

```
network 10.211.120.0/24;
range v31 {
    low 10.211.120.1;
    high 10.211.120.250;
}
dhcp-attributes {
    name-server {
        203.72.153.153;
        203.72.153.154;
    }
    router {
        10.211.120.254;
    }
}
}
}
pool v33 {
    family inet {
        network 10.215.120.0/24;
        range v33 {
            low 10.215.120.1;
            high 10.215.120.250;
        }
        dhcp-attributes {
            name-server {
                203.72.153.153;
                203.72.153.154;
            }
            router {
                10.215.120.254;
            }
        }
    }
}
}
pool v34 {
    family inet {
        network 10.217.102.0/24;
        range v34 {
            low 10.217.102.1;
            high 10.217.102.250;
        }
        dhcp-attributes {
```

```

        name-server {
            203.72.153.153;
            203.72.153.154;
        }
        router {
            10.217.102.254;
        }
    }
}
pool v32 {
    family inet {
        network 10.202.224.0/22;
        range v32 {
            low 10.202.224.1;
            high 10.202.227.254;
        }
        dhcp-attributes {
            name-server {
                203.72.153.153;
                203.72.153.154;
            }
            router {
                10.202.227.254;
            }
        }
    }
}
pool v5 {
    family inet {
        network 163.20.73.0/24;
        range junosRange {
            low 163.20.73.101;
            high 163.20.73.199;
        }
        dhcp-attributes {
            maximum-lease-time 7200;
            name-server {
                203.72.153.153;
                203.72.153.154;
            }
            router {

```

```
        163.20.73.254;
    }
    propagate-settings irb.5;
}
}
}
}
}
```

Ipv6 RA

```
protocols {
    router-advertisement {
        interface irb.34 {
            prefix 2001:288:2315:34::/64;
        }
        interface irb.20 {
            prefix 2001:288:2315:20::/64;
        }
        interface irb.32 {
            prefix 2001:288:2315:32::/64;
        }
        interface irb.31 {
            prefix 2001:288:2315:31::/64;
        }
        interface irb.33 {
            prefix 2001:288:2315:33::/64;
        }
        interface irb.10 {
            prefix 2001:288:2315:10::/64;
        }
        interface irb.25 {
            prefix 2001:288:2315:25::/64;
        }
        interface irb.35 {
            prefix 2001:288:2315:35::/64;
        }
        interface irb.36 {
            prefix 2001:288:2315:36::/64;
        }
        interface irb.3 {
```

```
    prefix 2001:288:2315:3::/64;
  }
  interface irb.5 {
    prefix 2001:288:2315:5::/64;
  }
}
}
```