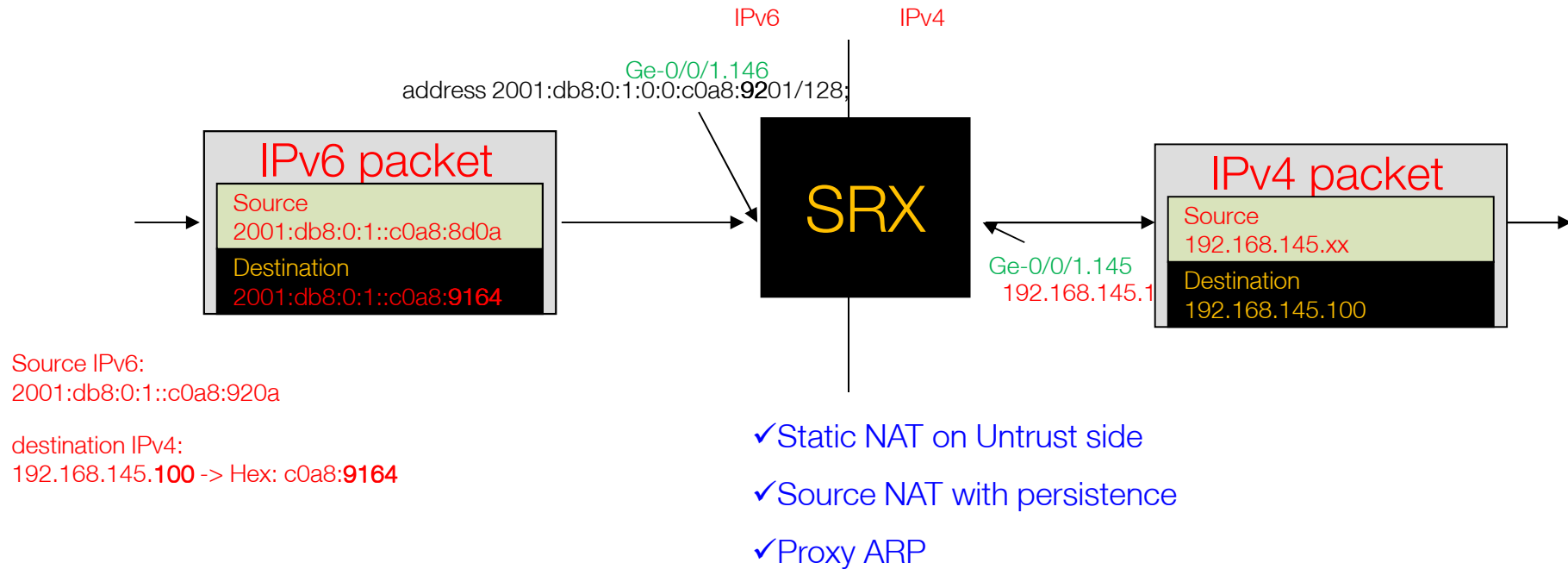


# SRX NAT64



## Activate IPv6 Flow Mode

```
admin@SRX3400# configure private
admin@SRX3400# show security forwarding-options
family {
    inet6 {
        mode flow-based;
    }
}
```

## Configuring Interfaces

```
admin@SRX3400# edit logical-systems Trust-lsys-ipv6
[edit logical-systems Trust-lsys-ipv6 interfaces ge-0/0/1 unit 146] #show
ge-0/0/1 {
    unit 145 {
        description "Interface towards IPv4 side";
        vlan-id 145;
        family inet {
            address 192.168.145.1/24;
        }
    }
    unit 146 {
        description "Interface Towards IPv6 side";
        vlan-id 146;
        family inet {
            address 192.168.146.1/24;
        }
        family inet6 {
            address 2001:db6:0:1::c0a8:9201/64;
        }
    }
}
```

## Configuring security zones

```
security {  
  zones {  
    security-zone Untrust-ipv6 {  
      address-book {  
        address hostv6 2001:db7:0:1::c0a8:920c/128;  
      }  
      interfaces {  
        ge-0/0/1.146 {  
          host-inbound-traffic {  
            system-services {  
              all;  
            }  
            protocols {  
              all;  
            }  
          }  
        }  
      }  
    }  
    security-zone Trust-ipv4 {  
      address-book {  
        address serverv4 192.168.145.100/32;  
      }  
      interfaces {  
        ge-0/0/1.145 {  
          host-inbound-traffic {  
            system-services {  
              all;  
            }  
            protocols {  
              all;  
            }  
          }  
        }  
      }  
    }  
  }  
}
```

## Configuring a Security Policy from zone Untrust to zone Trust

```
admin@SRX3400#  
[edit logical-systems Trust-lsys-ipv6 security]  
policies {  
  from-zone Untrust-ipv6 to-zone Trust-ipv4 {  
    policy client6server4 {  
      match {  
        source-address hostv6;  
        destination-address serverv4;  
        application any;  
      }  
      then {  
        permit;  
        log {  
          session-init;  
          session-close;  
        }  
      }  
    }  
  }  
}
```

## Configuring Static NAT for server

- Traffic is coming from the client on the **untrust** zone
- NAT server 192.168.145.100 (real IP configured on server) IPv4 address to the IPv6 2001:db6:0:1::c0a8:9264 address

```
security {
  nat {
    static {
      rule-set static64 {
        from zone Untrust-ipv6;
        rule toipv4 {
          match {
            destination-address 2001:db6:0:1::c0a8:9164/128; // equivalent of 192.168.145.100
          }
          then {
            static-nat prefix 192.168.145.120/32; // source will be 192.168.145.120
          }
        }
      }
    }
  }
}
```

## Static NAT – Checking configuration

- `admin@SRX3400# run show security flow session`
- NOTHING

## Configuring Source NAT for client

- Configure Source NAT for Client
  - Traffic is coming from the client on the Untrust zone going to the server on the Trust zone
  - NAT Client's 2001:db6:: IPv6 address to the IPv4 address

```
admin@SRX3400# show logical-systems Trust-lsys-ipv6 security nat
source {
  pool cs64-pool {
    address {
      192.168.145.8/32;
    }
  }
  rule-set client6-rs {
    from zone Untrust-ipv6;
    to zone Trust-ipv4;
    rule client64-rule {
      match {
        source-address 2001:db6:0:1::c0a8:920a/128;
        destination-address 192.168.145.100/32;
      }
      then {
        source-nat {
          pool {
            cs64-pool;
            persistent-nat {
              permit any-remote-host;
            }
          }
        }
      }
    }
  }
}
```