

Juniper SRX 日本語マニュアル

Virtual Router の CLI 設定

JUNIPER
NETWORKS

Engineering
Simplicity

はじめに

Virtual Router の CLI 設定について説明します。

※手順内容は「SRX300」、JUNOS「19.4R3-S1」にて確認を実施しております。
実際の設定内容やパラメータは導入する環境や構成によって異なります。
各種設定内容の詳細は下記リンクよりご確認ください。

<https://www.juniper.net/documentation/>

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Virtual Router

以下の設定を行う場合のコマンド例となります。

- ・ 2つの Virtual Router を作成 (blue-vr / red-vr)
- ・ 各 Virtual Router にそれぞれ 1 つのインタフェースを割り当て
- ・ 各インタフェースをそれぞれの security zone に割り当て

Virtual Router

インタフェースに IP アドレスを割り当て

```
user@host# set interface ge-0/0/2 unit 0 family inet address 6.6.6.5/24
user@host# set interface ge-0/0/3 unit 0 family inet address 7.7.7.5/24
```

Virtual Router の作成

```
user@host# set routing-instances blue-vr instance-type virtual-router
```

インタフェースを Virtual Router に割り当て

```
user@host# set routing-instances blue-vr interface ge-0/0/2.0
```

Virtual Router の作成

```
user@host# set routing-instances red-vr instance-type virtual-router
```

インタフェースを Virtual Router に割り当て

```
user@host# set routing-instances red-vr interface ge-0/0/3.0
```

Virtual Router

security zone の作成

```
user@host# set security zones security-zone blue-trust
```

インタフェースを security zone に割り当て

```
user@host# set security zones security-zone blue-trust interfaces ge-0/0/2.0
```

security zone の作成

```
user@host# set security zones security-zone red-trust
```

インタフェースを security zone に割り当て

```
user@host# set security zones security-zone red-trust interfaces ge-0/0/3.0
```

routing policy の作成

```
user@host# set policy-options policy-statement from_blue_to_red term term1 from instance blue-vr
user@host# set policy-options policy-statement from_blue_to_red term term1 then accept
```

Virtual Router

routing policy を適用

```
user@host# set routing-instances red-vr routing-options instance-import from_blue_to_red
```

security policy の作成 (blue-trust → red-trust)

```
user@host# set security policies from-zone blue-trust to-zone red-trust policy default-permit match source-address any
user@host# set security policies from-zone blue-trust to-zone red-trust policy default-permit match destination-address any
user@host# set security policies from-zone blue-trust to-zone red-trust policy default-permit match application any
user@host# set security policies from-zone blue-trust to-zone red-trust policy default-permit then permit
```

security policy の作成 (red-trust → blue-trust)

```
user@host# set security policies from-zone red-trust to-zone blue-trust policy default-permit match source-address any
user@host# set security policies from-zone red-trust to-zone blue-trust policy default-permit match destination-address any
user@host# set security policies from-zone red-trust to-zone blue-trust policy default-permit match application any
user@host# set security policies from-zone red-trust to-zone blue-trust policy default-permit then permit
```

Virtual Router

設定の確認

```
user@host> show
security {
  policies {
    from-zone blue-trust to-zone red-trust {
      policy default-permit {
        match {
          source-address any;
          destination-address any;
          application any;
        }
        then {
          permit;
        }
      }
    }
  }
}
```

Virtual Router

設定の確認

```
from-zone red-trust to-zone blue-trust {
  policy default-permit {
    match {
      source-address any;
      destination-address any;
      application any;
    }
    then {
      permit;
    }
  }
}
zones {
  security-zone blue-trust {
    interfaces {
      ge-0/0/2.0;
    }
  }
  security-zone red-trust {
    interfaces {
      ge-0/0/3.0;
    }
  }
}
```


Virtual Router

設定の確認

```
interfaces {
  ge-0/0/2 {
    unit 0 {
      family inet {
        address 6.6.6.5/24;
      }
    }
  }
  ge-0/0/3 {
    unit 0 {
      family inet {
        address 7.7.7.5/24;
      }
    }
  }
}
```

Virtual Router

設定の確認

```
policy-options {
  policy-statement from_blue_to_red {
    term term1 {
      from instance blue-vr;
      then accept;
    }
  }
}
routing-instances {
  blue-vr {
    instance-type virtual-router;
    interface ge-0/0/2.0;
  }
  red-vr {
    instance-type virtual-router;
    interface ge-0/0/3.0;
    routing-options {
      instance-import from_blue_to_red;
    }
  }
}
```

Virtual Router

ルーティングテーブルの確認

```
user@host> show route
blue-vr.inet.0: 2 destinations, 2 routes (2 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

6.6.6.0/24          *[Direct/0] 00:00:34
                   > via ge-0/0/2.0
6.6.6.5/32         *[Local/0] 00:04:42
                   Local via ge-0/0/2.0

red-vr.inet.0: 4 destinations, 4 routes (4 active, 0 holddown, 0 hidden)
+ = Active Route, - = Last Active, * = Both

6.6.6.0/24          *[Direct/0] 00:00:34
                   > via ge-0/0/2.0
6.6.6.5/32         *[Local/0] 00:04:42
                   Local via ge-0/0/2.0
7.7.7.0/24          *[Direct/0] 00:00:34
                   > via ge-0/0/3.0
7.7.7.5/32         *[Local/0] 00:04:42
                   Local via ge-0/0/3.0
```

Virtual Router

ルーティングインスタンスの確認

```
user@host> show route instance
Instance          Type
Primary RIB      Active/holddown/hidden
master            forwarding
__juniper_private1__ forwarding
  __juniper_private1__.inet.0  7/0/0
__juniper_private2__ forwarding
  __juniper_private2__.inet.0  0/0/1
__master.anon__   forwarding
blue-vr           virtual-router
  blue-vr.inet.0    2/0/0
red-vr            virtual-router
  red-vr.inet.0    4/0/0
```