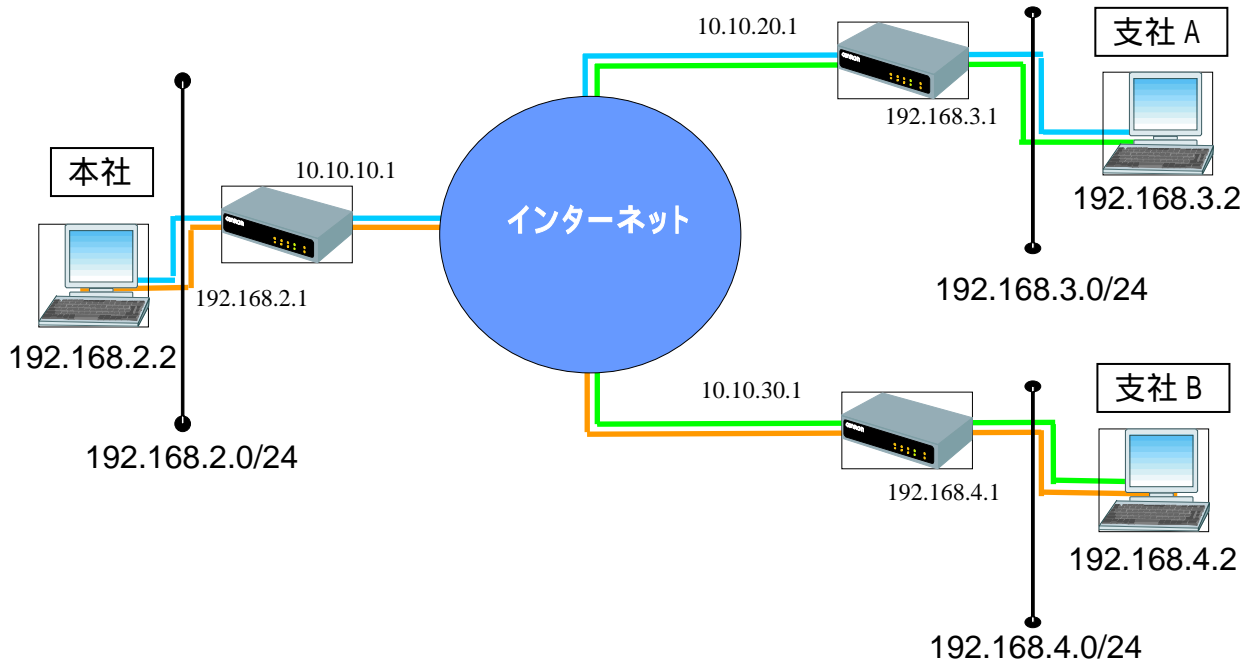


IPN での拠点間メッシュ接続



説明

IPN で 3 つの拠点をメッシュ接続する設定例を紹介します。

本社、支店 A 及び支店 B ともプロバイダーとの契約で固定 IP アドレスを使用しています。IPN 通信はルーターモードを使用します。

show config 実行時と「管理コマンド・設定(設定メンテナンス)」で初期値のパラメータは表示していません。

ID 及びパスワードは実際に使用されるものとは異なります。

設定内容

本社

```
ip address 192.168.2.1/24
ip dhcp address 192.168.2.2/99
ip dhcp server on
ip filter 59 reject out * 169.254.0.0/16 * wanany
ip filter 60 reject dns qtype 6
ip filter 61 restrict out * * tcpfin * * wanany
ip filter 62 restrict out * * NETBIOS wanany
ip filter 63 restrict out * * tcp_udp 137-139 * wanany
ip filter 64 restrict out * * udp 137 53 wanany
ip rip off
ipn mode on
ipn 1 valid router
ipn 1 policy gateway 10.10.20.1
ipn 1 policy authgw 192.168.3.1
ipn 1 policy localip 192.168.2.0/24
ipn 1 policy remoteip 192.168.3.0/24
ipn 1 auth id xxxxxxxxxxxx
ipn 1 auth password zzzzzzzzzzzzzzzz
ipn 2 valid router
ipn 2 policy gateway 10.10.30.1
ipn 2 policy authgw 192.168.4.1
ipn 2 policy localip 192.168.2.0/24
ipn 2 policy remoteip 192.168.4.0/24
ipn 2 auth id yyyyyyyyyyyy
ipn 2 auth password wwwwwwwwwwwwwwww
ipv6 common filter 1 pass in * * NDP_NS ether1 nolog
ipv6 common filter 2 pass out * * NDP_NS ether1 nolog
ipv6 common filter 3 pass in * * NDP_NA ether1 nolog
ipv6 common filter 4 pass out * * NDP_NA ether1 nolog
ipv6 common filter 5 pass in * * NDP_NS ether2 nolog
ipv6 common filter 6 pass out * * NDP_NS ether2 nolog
ipv6 common filter 7 pass in * * NDP_NA ether2 nolog
ipv6 common filter 8 pass out * * NDP_NA ether2 nolog
ipv6 common filter 9 pass in * * NDP_NS ether3 nolog
ipv6 common filter 10 pass out * * NDP_NS ether3 nolog
ipv6 common filter 11 pass in * * NDP_NA ether3 nolog
ipv6 common filter 12 pass out * * NDP_NA ether3 nolog
ipv6 common filter 13 pass in * * NDP_RS ether1 nolog
ipv6 common filter 14 pass out * * NDP_RA ether1 nolog
ipv6 common filter 15 pass in * * NDP_RS ether2 nolog
ipv6 common filter 16 pass out * * NDP_RA ether2 nolog
ipv6 common filter 17 pass in * * NDP_RS ether3 nolog
ipv6 common filter 18 pass out * * NDP_RA ether3 nolog
remote 0 always on
remote 0 disconnect idle 0
remote 0 pppoe keepalive on
remote 0 send id XXXX@trinity-ss.com
remote 0 send password YYYY
```

支社 A

```
ip address 192.168.3.1/24
ip dhcp address 192.168.3.2/99
ip dhcp server on
ip filter 59 reject out * 169.254.0.0/16 * wanany
ip filter 60 reject dns qtype 6
ip filter 61 restrict out * * tcpfin * * wanany
ip filter 62 restrict out * * NETBIOS wanany
ip filter 63 restrict out * * tcp_udp 137-139 * wanany
ip filter 64 restrict out * * udp 137 53 wanany
ip rip off
ipn mode on
ipn 1 valid router
ipn 1 policy gateway 10.10.10.1
ipn 1 policy authgw 192.168.2.1
ipn 1 policy localip 192.168.3.0/24
ipn 1 policy remoteip 192.168.2.0/24
ipn 1 auth id xxxxxxxxxxxx
ipn 1 auth password zzzzzzzzzzzzzzzz
ipn 2 valid router
ipn 2 policy gateway 10.10.30.1
ipn 2 policy authgw 192.168.4.1
ipn 2 policy localip 192.168.3.0/24
ipn 2 policy remoteip 192.168.4.0/24
ipn 2 auth id vvvvvvvvvvvv
ipn 2 auth password uuuuuuuuuuuuuuuu
ipv6 common filter 1 pass in * * NDP_NS ether1 nolog
ipv6 common filter 2 pass out * * NDP_NS ether1 nolog
ipv6 common filter 3 pass in * * NDP_NA ether1 nolog
ipv6 common filter 4 pass out * * NDP_NA ether1 nolog
ipv6 common filter 5 pass in * * NDP_NS ether2 nolog
ipv6 common filter 6 pass out * * NDP_NS ether2 nolog
ipv6 common filter 7 pass in * * NDP_NA ether2 nolog
ipv6 common filter 8 pass out * * NDP_NA ether2 nolog
ipv6 common filter 9 pass in * * NDP_NS ether3 nolog
ipv6 common filter 10 pass out * * NDP_NS ether3 nolog
ipv6 common filter 11 pass in * * NDP_NA ether3 nolog
ipv6 common filter 12 pass out * * NDP_NA ether3 nolog
ipv6 common filter 13 pass in * * NDP_RS ether1 nolog
ipv6 common filter 14 pass out * * NDP_RA ether1 nolog
ipv6 common filter 15 pass in * * NDP_RS ether2 nolog
ipv6 common filter 16 pass out * * NDP_RA ether2 nolog
ipv6 common filter 17 pass in * * NDP_RS ether3 nolog
ipv6 common filter 18 pass out * * NDP_RA ether3 nolog
remote 0 always on
remote 0 disconnect idle 0
remote 0 pppoe keepalive on
remote 0 send id XXXX@trinity-ss.com
remote 0 send password YYYY
```

支社 B

```
ip address 192.168.4.1/24
ip dhcp address 192.168.4.2/99
ip dhcp server on
ip filter 59 reject out * 169.254.0.0/16 * wanany
ip filter 60 reject dns qtype 6
ip filter 61 restrict out * * tcpfin * * wanany
ip filter 62 restrict out * * NETBIOS wanany
ip filter 63 restrict out * * tcp_udp 137-139 * wanany
ip filter 64 restrict out * * udp 137 53 wanany
ip rip off
ipn mode on
ipn 1 valid router
ipn 1 policy gateway 10.10.10.1
ipn 1 policy authgw 192.168.2.1
ipn 1 policy localip 192.168.4.0/24
ipn 1 policy remoteip 192.168.2.0/24
ipn 1 auth id yyyyyyyyyyyy
ipn 1 auth password wwwwwwwwwwwwwwwww
ipn 2 valid router
ipn 2 policy gateway 10.10.20.1
ipn 2 policy authgw 192.168.3.1
ipn 2 policy localip 192.168.4.0/24
ipn 2 policy remoteip 192.168.3.0/24
ipn 2 auth id vvvvvvvvvv
ipn 2 auth password uuuuuuuuuuuuuuuuu
ipv6 common filter 1 pass in * * NDP_NS ether1 nolog
ipv6 common filter 2 pass out * * NDP_NS ether1 nolog
ipv6 common filter 3 pass in * * NDP_NA ether1 nolog
ipv6 common filter 4 pass out * * NDP_NA ether1 nolog
ipv6 common filter 5 pass in * * NDP_NS ether2 nolog
ipv6 common filter 6 pass out * * NDP_NS ether2 nolog
ipv6 common filter 7 pass in * * NDP_NA ether2 nolog
ipv6 common filter 8 pass out * * NDP_NA ether2 nolog
ipv6 common filter 9 pass in * * NDP_NS ether3 nolog
ipv6 common filter 10 pass out * * NDP_NS ether3 nolog
ipv6 common filter 11 pass in * * NDP_NA ether3 nolog
ipv6 common filter 12 pass out * * NDP_NA ether3 nolog
ipv6 common filter 13 pass in * * NDP_RS ether1 nolog
ipv6 common filter 14 pass out * * NDP_RA ether1 nolog
ipv6 common filter 15 pass in * * NDP_RS ether2 nolog
ipv6 common filter 16 pass out * * NDP_RA ether2 nolog
ipv6 common filter 17 pass in * * NDP_RS ether3 nolog
ipv6 common filter 18 pass out * * NDP_RA ether3 nolog
remote 0 always on
remote 0 disconnect idle 0
remote 0 pppoe keepalive on
remote 0 send id XXXX@trinity-ss.com
remote 0 send password YYYY
```

解説

本社

`ipn mode on`

IPN 機能を使用します

`ipn 1 valid router`

IPN ポリシー1 番をルータモードで使用します(支社 A 用)

`ipn 1 policy gateway 10.10.20.1`

支社 A のリモートゲートウェイアドレス

`ipn 1 policy authgw 192.168.3.1`

支社 A の認証ゲートウェイアドレス

`ipn 1 policy localip 192.168.2.0/24`

ローカル IP アドレス (本社)

`ipn 1 policy remoteip 192.168.3.0/24`

リモート IP アドレス (支社 A)

`ipn 1 auth id xxxxxxxxxxxxxx`

支社 A 用の認証用 ID (0~9 及び A~F の半角英数字 12 文字)

`ipn 1 auth password zzzzzzzzzzzzzzzzzz`

支社 A 用の認証用パスワード (半角英数字 1~16 文字まで)

`ipn 2 valid router`

IPN ポリシー1 番をルータモードで使用します (支社 B 用)

`ipn 2 policy gateway 10.10.30.1`

支社 B のリモートゲートウェイアドレス

`ipn 2 policy authgw 192.168.4.1`

支社 B の認証ゲートウェイアドレス

`ipn 2 policy localip 192.168.2.0/24`

ローカル IP アドレス (本社)

`ipn 2 policy remoteip 192.168.4.0/24`

リモート IP アドレス (支社 B)

`ipn 2 auth id yyyyyyyyyyyyyy`

支社 B 用の認証用 ID (0~9 及び A~F の半角英数字 12 文字)

`ipn 2 auth password wwwwwwwwwwwwwwwww`

支社 B 用の認証用パスワード (半角英数字 1~16 文字まで)

支社 A

ipn mode on

IPN 機能を使用します

ipn 1 valid router

IPN ポリシー1 番をルーターモードで使用します (本社内用)

ipn 1 policy gateway 10.10.10.1

本社のリモートゲートウェイアドレス

ipn 1 policy authgw 192.168.2.1

本社の認証ゲートウェイアドレス

ipn 1 policy localip 192.168.3.0/24

ローカル IP アドレス (支社 A)

ipn 1 policy remoteip 192.168.2.0/24

リモート IP アドレス (本社)

ipn 1 auth id xxxxxxxxxxxx

本社内用の認証用 ID (0~9 及び A~F の半角英数字 12 文字)

ipn 1 auth password zzzzzzzzzzzzzzzzzzz

本社内用の認証用パスワード (半角英数字 1~16 文字まで)

ipn 2 valid router

IPN ポリシー1 番をルーターモードで使用します (支社 B 用)

ipn 2 policy gateway 10.10.30.1

支社 B のリモートゲートウェイアドレス

ipn 2 policy authgw 192.168.4.1

支社 B の認証ゲートウェイアドレス

ipn 2 policy localip 192.168.3.0/24

ローカル IP アドレス (支社 A)

ipn 2 policy remoteip 192.168.4.0/24

リモート IP アドレス (支社 B)

ipn 2 auth id vvvvvvvvvvvv

支社 B 用の認証用 ID (0~9 及び A~F の半角英数字 12 文字)

ipn 2 auth password uuuuuuuuuuuuuuuuuuu

支社 B 用の認証用パスワード (半角英数字 1~16 文字まで)

