Test 1:

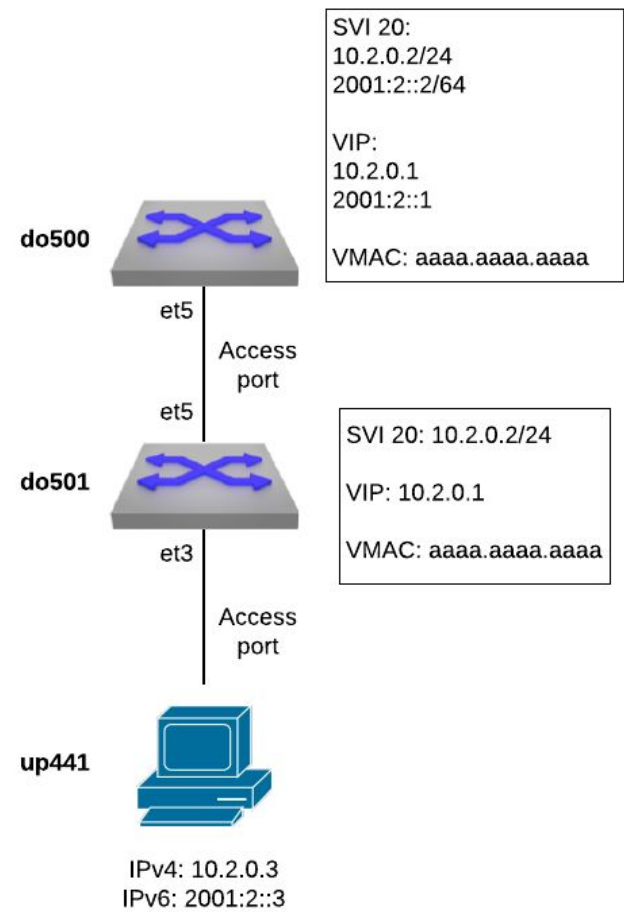**Configs:**

do500:
```
interface Vlan20
   ip address 10.2.0.2/24
   ipv6 address 2001:2::2/64
   ip virtual-router address 10.2.0.1
   ipv6 virtual-router address 2001:2::1

ip virtual-router mac-address aa:aa:aa:aa:aa:aa
```

do501:
```
interface Vlan20
   ip address 10.2.0.3/24
   ip virtual-router address 10.2.0.1

ip virtual-router mac-address aa:aa:aa:aa:aa:aa
```

do500#sh ip virtual-router
```
IP virtual router is configured with MAC address: aaaa.aaaa.aaaa
IP router is not configured with Mlag peer MAC address
MAC address advertisement interval: 30 seconds
Protocol: U - Up, D - Down, T - Testing, UN - Unknown
         NP - Not Present, LLD - Lower Layer Down

Interface       Vrf          Virtual IP Address      Protocol       State
--------------- ------------ ----------------------- -------------- ------
Vl20            default      10.2.0.1                U              active
```

do500#sh ipv6 virtual-router
```
IP virtual router is configured with MAC address: aaaa.aaaa.aaaa
IP router is not configured with Mlag peer MAC address
MAC address advertisement interval: 30 seconds
Protocol: U - Up, D - Down, T - Testing, UN - Unknown
         NP - Not Present, LLD - Lower Layer Down

Interface       Vrf          Virtual IPv6 Address      Protocol       State
--------------- ------------ ------------------------- -------------- ------
Vl20            default      2001:2::1                 U              active
```

```
do501#sh ip virtual-router
IP virtual router is configured with MAC address: aaaa.aaaa.aaaa
IP router is not configured with Mlag peer MAC address
MAC address advertisement interval: 30 seconds
Protocol: U - Up, D - Down, T - Testing, UN - Unknown
          NP - Not Present, LLD - Lower Layer Down


Interface       Vrf           Virtual IP Address      Protocol        State
--------------- ------------- ----------------------- -------------- ------
Vl20            default       10.2.0.1                U               active
```

Ping results:

Ping to physical IP (2001:2::2) on switch do500 was successful from host up441:

```
up441#ping ipv6 2001:2::2
PING 2001:2::2(2001:2::2) 72 data bytes
80 bytes from 2001:2::2: icmp_seq=1 ttl=64 time=0.372 ms
80 bytes from 2001:2::2: icmp_seq=2 ttl=64 time=0.127 ms
20
```
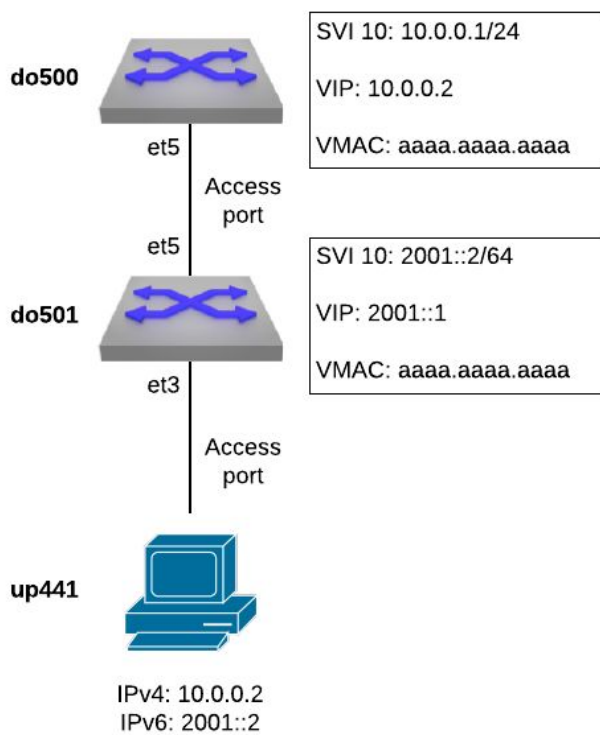However, ping to IPv6 virtual address failed from the host:

```
up441#ping ipv6 2001:2::1
PING 2001:2::1(2001:2::1) 72 data bytes

--- 2001:2::1 ping statistics ---
5 packets transmitted, 0 received, 100% packet loss, time 4003ms
```

```
                    SVI 10: 10.0.0.1/24
do500
                    VIP: 10.0.0.2

     et5            VMAC: aaaa.aaaa.aaaa
              Access
              port
     et5            SVI 10: 2001::2/64

do501               VIP: 2001::1

     et3            VMAC: aaaa.aaaa.aaaa

              Access
              port

up441



     IPv4: 10.0.0.2
     IPv6: 2001::2
```

Configs:

do500:
```
interface Vlan10
   ip address 10.0.0.2/24
   ip virtual-router address 10.0.0.1

ip virtual-router mac-address aa:aa:aa:aa:aa:aa
```

do501:
```
interface Vlan10
   ipv6 enable
   ipv6 address 2001::2/64
   ipv6 virtual-router address 2001::1

ip virtual-router mac-address aa:aa:aa:aa:aa:aa
```

Ping Results:

Ping to IPv6 address 2001::1 configured on do500 is successful while ping to IPv4 address 10.0.0.1 on do501 fails:

```
up441#ping ipv6 2001::1
PING 2001::1(2001::1) 72 data bytes
80 bytes from 2001::1: icmp_seq=1 ttl=64 time=0.222 ms
80 bytes from 2001::1: icmp_seq=2 ttl=64 time=0.078 ms
80 bytes from 2001::1: icmp_seq=3 ttl=64 time=0.083 ms
```

```
up441#ping 10.0.0.1
PING 10.0.0.1 (10.0.0.1) 72(100) bytes of data.

--- 10.0.0.1 ping statistics ---
5 packets transmitted, 0 received, 100% packet loss, time 4003ms
```