**R1**

/system identity

set name=R1

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether1 pvid=20

add bridge=bridge1 interface=ether2 pvid=10

add bridge=bridge1 interface=ether3 pvid=30

/interface bridge vlan

add bridge=bridge1 tagged=ether6 untagged=ether1 vlan-ids=20

add bridge=bridge1 tagged=ether6 untagged=ether2 vlan-ids=10

add bridge=bridge1 tagged=ether6 untagged=ether3 vlan-ids=30

**R2**

/system identity

set name=R2

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether1 pvid=10

add bridge=bridge1 interface=ether2 pvid=20

add bridge=bridge1 interface=ether3 pvid=30

/interface bridge vlan

add bridge=bridge1 tagged=ether6 untagged=ether1 vlan-ids=10

add bridge=bridge1 tagged=ether6 untagged=ether2 vlan-ids=20

add bridge=bridge1 tagged=ether6 untagged=ether3 vlan-ids=30

**R3**

/system identity

set name=R3

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface vlan

add interface=bridge1 name=vlan10 vlan-id=10

add interface=bridge1 name=vlan20 vlan-id=20

add interface=bridge1 name=vlan30 vlan-id=30

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether5

/interface bridge vlan

add bridge=bridge1 tagged=ether2,bridge1 vlan-ids=10

add bridge=bridge1 tagged=ether2,bridge1 vlan-ids=20

add bridge=bridge1 tagged=ether2,bridge1 vlan-ids=30

/ip address

add address=10.15.1.1/24 interface=vlan10 network=10.15.1.0

add address=10.15.2.1/24 interface=vlan20 network=10.15.2.0

add address=10.15.3.1/24 interface=vlan30 network=10.15.3.0

/ipv6 address

add address=2001:cf:a:: eui-64=yes interface=vlan10

add address=2001:cf:b:: eui-64=yes interface=vlan20

add address=2001:cf:c:: eui-64=yes interface=vlan30

/ipv6 nd

set [ find default=yes ] ra-interval=10-15

ip/dhcp-server/setup

/interface bridge

add name=loopback

ip/address/add address=10.0.0.2/30 interface=ether1

ip/address/add address=10.255.255.2 interface=loopback

/routing id

add name=id\_ospf select-dynamic-id=only-loopback

/routing ospf instance

add disabled=no name=ospf router-id=id\_ospf

add disabled=no name=ospfv3 router-id=id\_ospf version=3

/routing ospf area

add disabled=no instance=ospf name=backbone

add disabled=no instance=ospfv3 name=backbone6

/routing ospf interface-template

add area=backbone interfaces=loopback passive

add area=backbone interfaces=vlan10 passive

add area=backbone interfaces=vlan20 passive

add area=backbone interfaces=vlan30 passive

add area=backbone interfaces=ether1 type=ptp

add area=backbone6 interfaces=loopback passive

add area=backbone6 interfaces=vlan10 passive

add area=backbone6 interfaces=vlan20 passive

add area=backbone6 interfaces=vlan30 passive

add area=backbone6 interfaces=ether1 type=ptp

**R8**

/system identity

set name=R8

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether1 pvid=50

add bridge=bridge1 interface=ether2 pvid=40

add bridge=bridge1 interface=ether3 pvid=30

/interface bridge vlan

add bridge=bridge1 tagged=ether6 untagged=ether1 vlan-ids=40

add bridge=bridge1 tagged=ether6 untagged=ether2 vlan-ids=50

add bridge=bridge1 tagged=ether6 untagged=ether3 vlan-ids=30

**R9**

/system identity

set name=R9

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether1 pvid=30

add bridge=bridge1 interface=ether2 pvid=50

add bridge=bridge1 interface=ether3 pvid=40

/interface bridge vlan

add bridge=bridge1 tagged=ether6 untagged=ether1 vlan-ids=30

add bridge=bridge1 tagged=ether6 untagged=ether2 vlan-ids=50

add bridge=bridge1 tagged=ether6 untagged=ether3 vlan-ids=40

**R7**

/system identity

set name=R7

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface vlan

add interface=bridge1 name=vlan50 vlan-id=50

add interface=bridge1 name=vlan40 vlan-id=40

add interface=bridge1 name=vlan30 vlan-id=30

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether5

/interface bridge vlan

add bridge=bridge1 tagged=ether6,ether5,bridge1 vlan-ids=50

add bridge=bridge1 tagged=ether6,ether5,bridge1 vlan-ids=40

add bridge=bridge1 tagged=ether6,ether5,bridge1 vlan-ids=30

/ip address

add address=10.15.7.1/24 interface=vlan40 network=10.15.7.0

add address=10.15.8.1/24 interface=vlan50 network=10.15.8.0

add address=10.15.9.1/24 interface=vlan30 network=10.15.9.0

/ipv6 address

add address=2001:e5:7:: eui-64=yes interface=vlan40

add address=2001:e5:8:: eui-64=yes interface=vlan50

add address=2001:e5:9:: eui-64=yes interface=vlan30

/ipv6 nd

set [ find default=yes ] ra-interval=10-15

ip/dhcp-server/setup

/interface bridge

add name=loopback

ip/address/add address=10.0.0.6/30 interface=ether1

ip/address/add address=10.255.255.3 interface=loopback

/routing id

add name=id\_ospf select-dynamic-id=only-loopback

/routing ospf instance

add disabled=no name=ospf router-id=id\_ospf

add disabled=no name=ospfv3 router-id=id\_ospf version=3

/routing ospf area

add disabled=no instance=ospf name=backbone

add disabled=no instance=ospfv3 name=backbone6

/routing ospf interface-template

add area=backbone interfaces=loopback passive

add area=backbone interfaces=vlan40 passive

add area=backbone interfaces=vlan50 passive

add area=backbone interfaces=vlan30 passive

add area=backbone interfaces=ether1 type=ptp

add area=backbone6 interfaces=loopback passive

add area=backbone6 interfaces=vlan40 passive

add area=backbone6 interfaces=vlan50 passive

add area=backbone6 interfaces=vlan30 passive

add area=backbone6 interfaces=ether1 type=ptp

**R4**

/system identity

set name=R4

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface vlan

add interface=bridge1 name=vlan50 vlan-id=50

add interface=bridge1 name=vlan40 vlan-id=40

add interface=bridge1 name=vlan30 vlan-id=30

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether5

/interface bridge vlan

add bridge=bridge1 tagged=ether6,ether5,bridge1 vlan-ids=50

add bridge=bridge1 tagged=ether6,ether5,bridge1 vlan-ids=40

add bridge=bridge1 tagged=ether6,ether5,bridge1 vlan-ids=30

/ip address

add address=10.15.4.1/24 interface=vlan40 network=10.15.4.0

add address=10.15.5.1/24 interface=vlan50 network=10.15.5.0

add address=10.15.6.1/24 interface=vlan30 network=10.15.6.0

/ipv6 address

add address=2001:c01:d:: eui-64=yes interface=vlan40

add address=2001:c01:e:: eui-64=yes interface=vlan50

add address=2001:c01:f:: eui-64=yes interface=vlan30

/ipv6 nd

set [ find default=yes ] ra-interval=10-15

ip/dhcp-server/setup

/interface bridge

add name=loopback

ip/address/add address=10.0.0.10/30 interface=ether1

ip/address/add address=10.255.255.4 interface=loopback

/routing id

add name=id\_ospf select-dynamic-id=only-loopback

/routing ospf instance

add disabled=no name=ospf router-id=id\_ospf

add disabled=no name=ospfv3 router-id=id\_ospf version=3

/routing ospf area

add disabled=no instance=ospf name=backbone

add disabled=no instance=ospfv3 name=backbone6

/routing ospf interface-template

add area=backbone interfaces=loopback passive

add area=backbone interfaces=vlan40 passive

add area=backbone interfaces=vlan50 passive

add area=backbone interfaces=vlan30 passive

add area=backbone interfaces=ether1 type=ptp

add area=backbone6 interfaces=loopback passive

add area=backbone6 interfaces=vlan40 passive

add area=backbone6 interfaces=vlan50 passive

add area=backbone6 interfaces=vlan30 passive

add area=backbone6 interfaces=ether1 type=ptp

**R5**

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether1 pvid=40

add bridge=bridge1 interface=ether2 pvid=50

add bridge=bridge1 interface=ether3 pvid=30

/interface bridge vlan

add bridge=bridge1 tagged=ether6 untagged=ether1 vlan-ids=40

add bridge=bridge1 tagged=ether6 untagged=ether2 vlan-ids=50

add bridge=bridge1 tagged=ether6 untagged=ether3 vlan-ids=30

**R6**

/interface bridge

add name=bridge1 vlan-filtering=yes

/interface bridge port

add bridge=bridge1 interface=ether6

add bridge=bridge1 interface=ether1 pvid=40

add bridge=bridge1 interface=ether2 pvid=50

add bridge=bridge1 interface=ether3 pvid=30

/interface bridge vlan

add bridge=bridge1 tagged=ether6 untagged=ether1 vlan-ids=40

add bridge=bridge1 tagged=ether6 untagged=ether2 vlan-ids=50

add bridge=bridge1 tagged=ether6 untagged=ether3 vlan-ids=30

