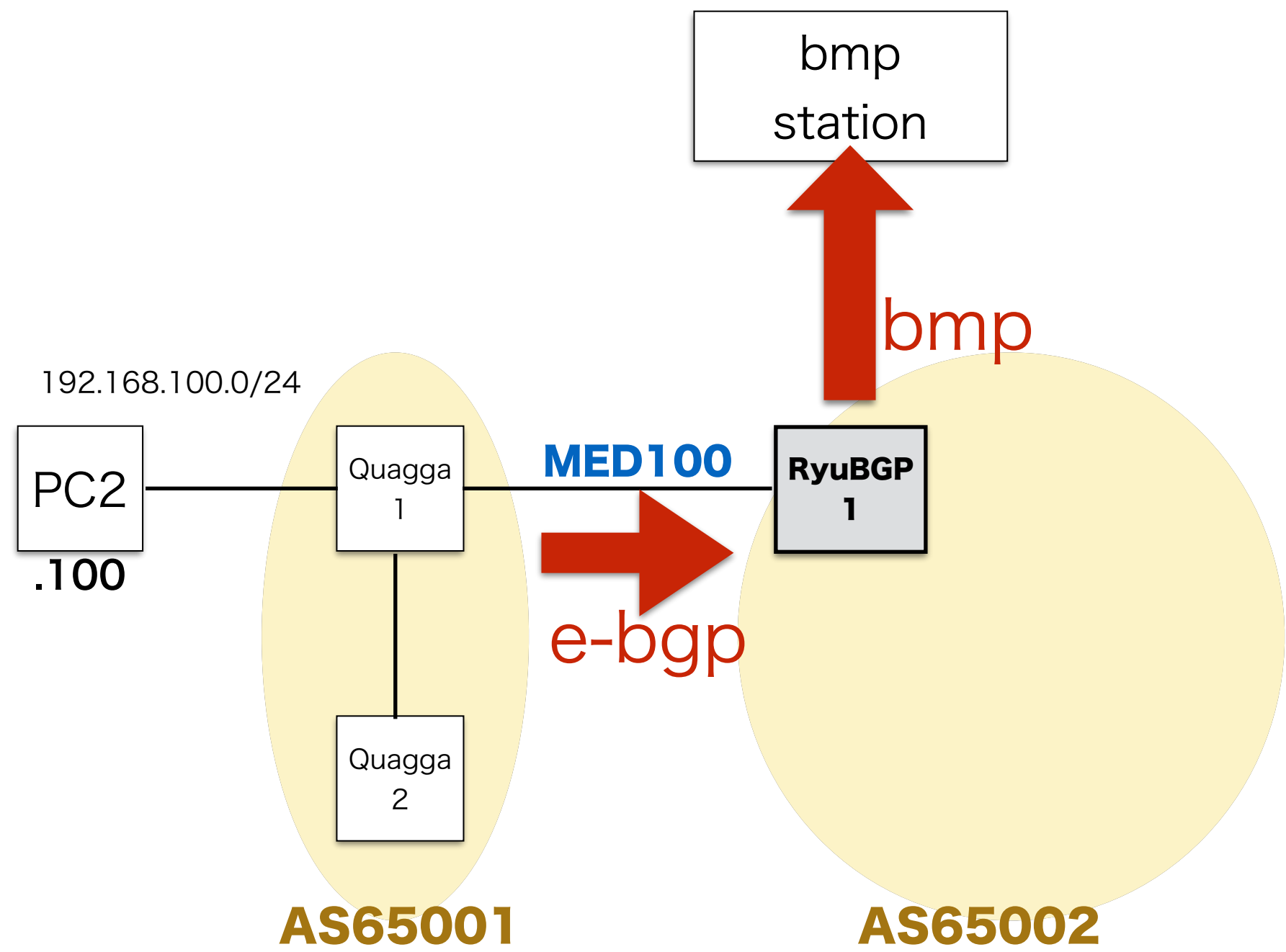
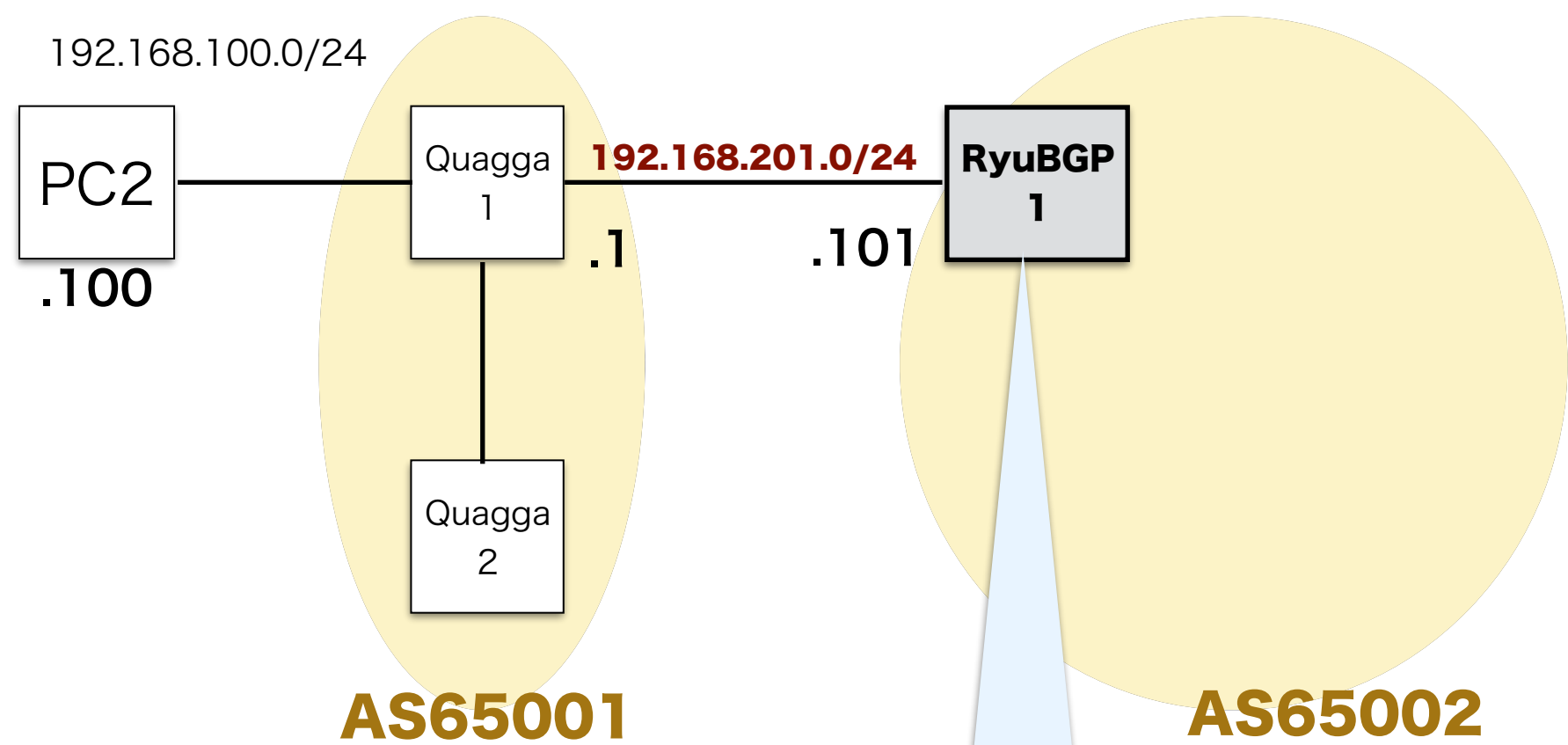


Test Environment



Show_rib_ipv4 in RyuBGP1



Status codes: * valid, > best
Origin codes: i - IGP, e - EGP, ? - incomplete

Network	Labels	Next Hop	Reason	Metric	LocPrf	Path
*> 172.16.101.0/24	None	192.168.201.1	Only Path	100		65001 ?
*> 192.168.100.0/24	None	192.168.201.1	Only Path	100		65001 ?
*> 10.0.0.1/32	None	192.168.201.1	Only Path	100		65001 ?
*> 0.0.0.0/0	None	192.168.201.1	Only Path	100		65001 ?
*> 192.168.201.0/24	None	192.168.201.1	Only Path	100		65001 ?
*> 10.0.0.2/32	None	192.168.201.1	Only Path	100		65001 ?
*> 192.168.202.0/24	None	192.168.201.1	Only Path	100		65001 ?

```

$ ryu-manager --verbose bmpstation.py
loading app bmpstation.py
instantiating app bmpstation.py of BMPStation
BRICK bmpstation
listening on 0.0.0.0:11019
BMP client connected, ip=192.168.183.215, port=41987
2014 Dec 25 14:13:05 | 192.168.183.215 | BMPInitiation(info=[{'type': 0, 'value': u'This is Ryu BGP BMP message', 'len':
27}], len=37, type=4, version=3)

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPPeerUpNotification(is_post_policy=False, len=162, local_address='192.168.201.101', local_port=179, peer_address='192.168.201.1'
, peer_as=65001, peer_bgp_id='10.0.0.1', peer_distinguisher=0, peer_type=0, received_open_message=BGPOpen(bgp_identifier='10.0.0.1'
, hold_time=180, len=53, my_as=65001, opt_param=[BGPOptParamCapabilityMultiprotocol(afi=1, cap_code=1, cap_length=4, length=6, reserve
d=0, safi=1, type=2), BGPOptParamCapabilityCiscoRouteRefresh(cap_code=128, cap_length=0, length=2, type=2),
BGPOptParamCapabilityRouteRefresh(cap_code=2, cap_length=0, length=2, type=2),
BGPOptParamCapabilityFourOctetAsNumber(as_number=65001, cap_code=65, cap_length=4, length=6, type=2)], opt_param_len=24, type=1, vers
ion=4), remote_port=43057, sent_open_message=BGPOpen(bgp_identifier='10.0.1.1', hold_time=40, len=41, my_as=65002, opt_param=[BGPOpt
ParamCapabilityMultiprotocol(afi=1, cap_code=1, cap_length=4, length=6, reserved=0, safi=1, type=2),
BGPOptParamCapabilityRouteRefresh(cap_code=2, cap_length=0, length=2, type=2)], opt_param_len=12, type=1, version=4), timestamp=14194
84326.659142, type=3, version=3)

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPRouteMonitoring(bgp_update=BGPUpdate(len=66, nlri=[BGPNLRI(addr='0.0.0.0', length=0),
BGPNLRI(addr='192.168.201.0', length=24), BGPNLRI(addr='192.168.100.0', length=24), BGPNLRI(addr='172.16.101.0', length=24),
BGPNLRI(addr='10.0.0.1', length=32)], path_attributes=[BGPPathAttributeOrigin(flags=64, length=1, type=1, value=2),
BGPPathAttributeAsPath(flags=64, length=4, type=2, value=[[65001]]),
BGPPathAttributeNextHop(flags=64, length=4, type=3, value='192.168.201.1'),
BGPPathAttributeMultiExitDisc(flags=128, length=4, type=4, value=100)], total_path_attribute_len=25, type=2, withdrawn_routes=[], wit
hdrawn_routes_len=0), is_post_policy=True, len=114, peer_address='192.168.201.1', peer_as=65001, peer_bgp_id='10.0.0.1', peer_distin
guisher=0, peer_type=0, timestamp=1419484327.0, type=0, version=3)

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPRouteMonitoring(bgp_update=BGPUpdate(len=66, nlri=[BGPNLRI(addr='0.0.0.0', length=0),
BGPNLRI(addr='192.168.201.0', length=24), BGPNLRI(addr='192.168.100.0', length=24), BGPNLRI(addr='172.16.101.0', length=24),
BGPNLRI(addr='10.0.0.1', length=32)], path_attributes=[BGPPathAttributeOrigin(flags=64, length=1, type=1, value=2),
BGPPathAttributeAsPath(flags=64, length=4, type=2, value=[[65001]]),
BGPPathAttributeNextHop(flags=64, length=4, type=3, value='192.168.201.1'),
BGPPathAttributeMultiExitDisc(flags=128, length=4, type=4, value=100)], total_path_attribute_len=25, type=2, withdrawn_routes=[], wit
hdrawn_routes_len=0), is_post_policy=True, len=114, peer_address='192.168.201.1', peer_as=65001, peer_bgp_id='10.0.0.1', peer_distin
guisher=0, peer_type=0, timestamp=1419484327.0, type=0, version=3)

```

<cont..>

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPRouteMonitoring(bgp_update=BGPUUpdate(len=66,nlri=[BGPNLRI(addr='0.0.0.0',length=0),
BGPNLRI(addr='192.168.201.0',length=24), BGPNLRI(addr='192.168.100.0',length=24), BGPNLRI(addr='172.16.101.0',length=24),
BGPNLRI(addr='10.0.0.1',length=32)],path_attributes=[BGPPathAttributeOrigin(flags=64,length=1,type=1,value=2),
BGPPathAttributeAsPath(flags=64,length=4,type=2,value=[[65001]]),
BGPPathAttributeNextHop(flags=64,length=4,type=3,value='192.168.201.1'),
BGPPathAttributeMultiExitDisc(flags=128,length=4,type=4,value=100)],total_path_attribute_len=25,type=2,withdrawn_routes=[],wit
hdrawn_routes_len=0),is_post_policy=True,len=114,peer_address='192.168.201.1',peer_as=65001,peer_bgp_id='10.0.0.1',peer_distin
guisher=0,peer_type=0,timestamp=1419484327.0,type=0,version=3)

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPRouteMonitoring(bgp_update=BGPUUpdate(len=57,nlri=[BGPNLRI(addr='10.0.0.2',length=32),
BGPNLRI(addr='192.168.202.0',length=24)],path_attributes=[BGPPathAttributeOrigin(flags=64,length=1,type=1,value=2),
BGPPathAttributeAsPath(flags=64,length=4,type=2,value=[[65001]]),
BGPPathAttributeNextHop(flags=64,length=4,type=3,value='192.168.201.1'),
BGPPathAttributeMultiExitDisc(flags=128,length=4,type=4,value=100)],total_path_attribute_len=25,type=2,withdrawn_routes=[],wit
hdrawn_routes_len=0),is_post_policy=True,len=105,peer_address='192.168.201.1',peer_as=65001,peer_bgp_id='10.0.0.1',peer_distin
guisher=0,peer_type=0,timestamp=1419484327.0,type=0,version=3)

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPRouteMonitoring(bgp_update=BGPUUpdate(len=66,nlri=[BGPNLRI(addr='0.0.0.0',length=0),
BGPNLRI(addr='192.168.201.0',length=24), BGPNLRI(addr='192.168.100.0',length=24), BGPNLRI(addr='172.16.101.0',length=24),
BGPNLRI(addr='10.0.0.1',length=32)],path_attributes=[BGPPathAttributeOrigin(flags=64,length=1,type=1,value=2),
BGPPathAttributeAsPath(flags=64,length=4,type=2,value=[[65001]]),
BGPPathAttributeNextHop(flags=64,length=4,type=3,value='192.168.201.1'),
BGPPathAttributeMultiExitDisc(flags=128,length=4,type=4,value=100)],total_path_attribute_len=25,type=2,withdrawn_routes=[],wit
hdrawn_routes_len=0),is_post_policy=True,len=114,peer_address='192.168.201.1',peer_as=65001,peer_bgp_id='10.0.0.1',peer_distin
guisher=0,peer_type=0,timestamp=1419484327.0,type=0,version=3)

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPRouteMonitoring(bgp_update=BGPUUpdate(len=66,nlri=[BGPNLRI(addr='0.0.0.0',length=0),
BGPNLRI(addr='192.168.201.0',length=24), BGPNLRI(addr='192.168.100.0',length=24), BGPNLRI(addr='172.16.101.0',length=24),
BGPNLRI(addr='10.0.0.1',length=32)],path_attributes=[BGPPathAttributeOrigin(flags=64,length=1,type=1,value=2),
BGPPathAttributeAsPath(flags=64,length=4,type=2,value=[[65001]]),
BGPPathAttributeNextHop(flags=64,length=4,type=3,value='192.168.201.1'),
BGPPathAttributeMultiExitDisc(flags=128,length=4,type=4,value=100)],total_path_attribute_len=25,type=2,withdrawn_routes=[],wit
hdrawn_routes_len=0),is_post_policy=True,len=114,peer_address='192.168.201.1',peer_as=65001,peer_bgp_id='10.0.0.1',peer_distin
guisher=0,peer_type=0,timestamp=1419484327.0,type=0,version=3)

2014 Dec 25 14:13:05 | 192.168.183.215 |
BMPRouteMonitoring(bgp_update=BGPUUpdate(len=57,nlri=[BGPNLRI(addr='10.0.0.2',length=32),
BGPNLRI(addr='192.168.202.0',length=24)],path_attributes=[BGPPathAttributeOrigin(flags=64,length=1,type=1,value=2),
BGPPathAttributeAsPath(flags=64,length=4,type=2,value=[[65001]]),
BGPPathAttributeNextHop(flags=64,length=4,type=3,value='192.168.201.1'),
BGPPathAttributeMultiExitDisc(flags=128,length=4,type=4,value=100)],total_path_attribute_len=25,type=2,withdrawn_routes=[],wit
hdrawn_routes_len=0),is_post_policy=True,len=105,peer_address='192.168.201.1',peer_as=65001,peer_bgp_id='10.0.0.1',peer_distin
guisher=0,peer_type=0,timestamp=1419484327.0,type=0,version=3)