

Setup your Lab

Samstag, 6. September 2014, 1:07 nachm.

Always go by your switchportport:

If you're on Port 1 this means:

The em0 interface will be 5.226.146.1

The em1 interface will be the first /30 subnet out of the 5.226.147 Range this 5.226.147.0/30 switchport 2 this means 5.226.147.4/30

your BGP AS Number is 650xx

Your upstream peer is 65048 which will send you the default router aswell. no need to manually set it.

Configuration hints:

You can access your router on 192.168.1.1 if you configure your laptop manually to 192.168.1.2

The root password is balccon, the access is via SSH

Interfaces

Enter in Quagga configuration (vtys):

cli

```
router1.bsdrp.net# conf t
router1.bsdrp.net(config)# interface em0
router1.bsdrp.net(config-if)# ip address 5.226.146.x/26
router1.bsdrp.net(config-if)# interface em1
router1.bsdrp.net(config-if)# ip address 5.226.147.x/30 <---- MISTAKE IN PRINTOUT
router1.bsdrp.net(config-if)# exit
```

Then configure BGP:

```
router1.bsdrp.net(config)# router bgp 650xx
router1.bsdrp.net(config-router)# network 5.226.147.x/30
router1.bsdrp.net(config-router)# bgp router-id 5.226.146.x
router1.bsdrp.net(config-router)# neighbor 5.226.146.y remote-as 650xx
router1.bsdrp.net(config-router)# neighbor 5.226.146.y activate
router1.bsdrp.net(config-router)# neighbor 5.226.146.y soft-reconfiguration inbound
router1.bsdrp.net(config-router)# neighbor 5.226.146.z remote-as 650xx
```

```
address-family ipv4 unicast
exit
```

...

You can leave the config mode with exit, and then apply the config with write mem

Networks

The usable /30 for your em1 interface will be (pick the correct one by your network port on the switch!)

```
5.226.147.0/30 Sw itch Port 1
5.226.147.4/30 Sw itch Port 2
5.226.147.8/30 Sw itch Port 3
5.226.147.12/30
5.226.147.16/30
5.226.147.20/30
5.226.147.24/30
5.226.147.28/30
5.226.147.32/30
5.226.147.36/30
5.226.147.40/30
5.226.147.44/30
5.226.147.48/30
5.226.147.52/30
```

5.226.147.56/30
5.226.147.60/30
5.226.147.64/30
5.226.147.68/30
5.226.147.72/30
5.226.147.76/30
5.226.147.80/30
5.226.147.84/30
5.226.147.88/30
5.226.147.92/30
5.226.147.96/30
5.226.147.100/30
5.226.147.104/30
5.226.147.108/30
5.226.147.112/30
5.226.147.116/30
5.226.147.120/30
5.226.147.124/30
5.226.147.128/30
5.226.147.132/30
5.226.147.136/30
5.226.147.140/30
5.226.147.144/30
5.226.147.148/30
5.226.147.152/30
5.226.147.156/30
5.226.147.160/30
5.226.147.164/30
5.226.147.168/30
5.226.147.172/30
5.226.147.176/30
5.226.147.180/30
5.226.147.184/30
5.226.147.188/30
5.226.147.192/30
5.226.147.196/30

Don't forget to peer with AS65048 on 5.226.146.48 or you will not get internet access

Happy Peering!3