

TEIN3 Internship Program Weekly Report

VinaREN

This is my final report on internship program for the week (23rd to 27th).

What I learned during this week.

1. BGP –Border Gateway Protocol

- Advanced BGP Configuration and Verification
- BGP Neighbor States
- BGP Established and Idle States
- BGP Active State
- Configuring a Peer Group
- Configuring a Peer Group Example
- BGP Peering
- Configuring BGP Authentication
- Troubleshooting BGP
- Clearing the BGP Session Hard Reset of BGP Sessions
- Soft Reset of BGP Sessions
- The debug ip bgp Command

2. Selecting a BGP Path

- Characteristics of BGP Attributes
- BGP Attributes
- AS Path Attribute
- Next-Hop Attribute
- Origin Attribute
- Local Preference Attribute
- MED Attribute
- Weight Attribute
- Determining the BGP Path Selection
- Selecting a BGP Path
- Path Selection with Multihomed Connection

3. Manipulating BGP Path Selection with Route Maps

- ✓ Setting Local Preference with Route Maps
- ✓ Setting Local Preference with Route Maps Example
- ✓ Changing the BGP Local Preference for All Routes
- ✓ BGP Local Preference Example
- ✓ BGP Local Preference Example (continued)

- ✓ BGP Local Preference Example (continued)
- ✓ Setting the MED with Route Maps
- ✓ BGP Using Route Maps and the MED Example
- ✓ BGP Using Route Maps and the MED Example (continued)
- ✓ BGP Using Route Maps and the MED Example (continued)

I did more labs on BGP:

1. Configuring BGP with Default Routing
2. Using the AS_PATH Attribute
3. Configuring IBGP and EBGP Sessions, Local Preference and MED
4. BGP Route Reflectors and Route Filters and some more labs.

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