

Internship Program for TEIN3 HRD in VinaREN

WEEKLY REPORT (for third week of the program, 16th to 20th July, 2012)

16th July 2012

For this week we studied about BGP

- 1.BGP Concepts and Terminology
 - 1.1. Overview
 - 1.2.Using BGP in the Enterprise Network
 - 1.3.BGP Multihoming Options
 - 1.4.Option 1: Default Routes from All Providers
 - 1.5.Option 2: Default Routes and Partial Updates
 - 1.6. Option 3: Full Routes from All Providers
 - 1.6. BGP Routing Between Autonomous Systems
 - 1.8. BGP Routing Policies
 - 1.9. Features of BGP
- 2.EBGP and IBGP
 - 2.1. BGP Neighbor Relationships
 - 2.1.Establishing a Connection between External BGP Neighbors
 - 2.3.Establishing a Connection between Internal BGP Neighbors
 - 2.4. Synchronization within an Autonomous System
 - 2.5. IBGP in a Nontransit Autonomous System
 - 2.6.Routing Issues in a Transit Autonomous System

17th July 2012

3. Configuring BGP
 - 3.1. Basic BGP Configuration
 - 3.2. Activate a BGP Session
 - 3.3. Shutting Down a BGP Neighbor
 - 3.4. BGP Configuration Considerations
 - 3.5. IBGP Peering Issue
 - 3.6. BGP neighbor update-source Command
 - 3.7. EBGP Peering Issue
 - 3.8. Next Hop Behavior
 - 3.9. BGP neighbor next-hop-self Command
 - 3.10. Injection Routing Information into BGP
 - 3.11. BGP network Command Example
 - 3.12. BGP Synchronization
 - 3.13. BGP Synchronization Example
 - 3.14. BGP Configuration Example

Did exercise with basic BGP configuration.

18th July 2012

For today is the vocation for the staff so today we didn't study, and they had to invitation us to join this vocation in Do Son beach.

19th July 2012

1. Advanced BGP Configuration and Verification
 - 1.1. BGP Neighbor States
 - 1.2. BGP Established and Idle States
 - 1.3. BGP Active State Troubleshooting
 - 1.4. Configuring a Peer Group
 - 1.5. Configuring a Peer Group Example
 - 1.6. BGP Peering
 - 1.7. Configuring BGP Authentication
 - 1.8. Troubleshooting BGP
 - 1.9. Clearing the BGP Session
 - 1.10. Hard Reset of BGP Sessions
 - 1.11. Soft Reset of BGP Sessions
 - 1.12. The debug ipbgp Command
2. Selecting a BGP Path
 - 2.1. Characteristics of BGP Attributes
 - 2.2. BGP Attributes
 - 2.3. AS Path Attribute
 - 2.4. Next-Hop Attribute
 - 2.5. Origin Attribute
 - 2.6. Local Preference Attribute
 - 2.7. MED Attribute
 - 2.8. Weight Attribute
 - 2.9. Determining the BGP Path Selection
 - 2.10. Selecting a BGP Path
 - 2.11. Path Selection with Multihomed Connection
3. Manipulating BGP Path Selection with Route Maps
 - 3.1. Setting Local Preference with Route Maps
 - 3.2. Setting Local Preference with Route Maps Example
 - 3.3. Changing the BGP Local Preference for All Routes
 - 3.4. BGP Local Preference Example
 - 3.5. BGP Local Preference Example (continued)
 - 3.6. BGP Local Preference Example (continued)
 - 3.7. Setting the MED with Route Maps
 - 3.8. BGP Using Route Maps and the MED Example
 - 3.9. BGP Using Route Maps and the MED Example (continued)
 - 3.10. BGP Using Route Maps and the MED Example (continued)
 - 3.11. Implementing BGP in the Enterprise

20th July 2012

Did exercise BGP like

- Configuring BGP with Default Routing
- Configuring Using the AS_PATH Attribute