Cisco IOS Admin Distances & Juniper JUNOS Route Preferences

Overview:

As part of your assigned readings and material covered in the class lecture you have been provided information about how Cisco IOS utilizes administrative distance in route selection. For this assignment, you are going to perform research using the methods provided below to gather more information on how Cisco IOS and Juniper JUNOS perform route table route insertion selection given multiple routes to the same prefix from different protocols. Read the research resources provided and also perform your own Internet searches for information on this subject.

Required Resources:

* Textbook and lecture notes
* Internet access

Internet Research Resources:

Use the Internet to find information about both the Cisco IOS Administrative Distance and Juniper JUNOS Route Preferences

* Cisco Web Site Reference Material
<http://www.cisco.com/en/US/tech/tk365/technologies_tech_note09186a0080094195.shtml>

<http://www.cisco.com/en/US/tech/tk365/technologies_tech_note09186a0080094823.shtml>

* Juniper Web Site Reference Material (pages 9-11)
<http://www.juniper.net/techpubs/software/junos/junos82/swconfig82-routing/download/protocols-overview.pdf>

Deliverables

* Provide information in table form comparing the administrative distances / route preferences of Cisco IOS and Juniper JUNOS respectively.
* Provide an analysis of the differences between Cisco IOS selection of EBGP/IBGP routes versus Juniper JUNOS.
* Provide a short analysis of the difference between Cisco IOS and Juniper JUNOS in the preference of OSPF routes. Ensure to compare the difference between internal and external routes.
* Provide the Cisco IOS commands to change the administrative distance of EBGP routes to the same value as IBGP routes.
* Provide the Cisco IOS command(s) to change the administrative distance of RIP to 4.