IN723 Lesson Plan

# Details

## Course: IN723 Advanced Networking

## Lesson Title: Redundancy Lesson 1, 2, 3

# Objectives

The students will learn what the following features are, why they are needed, how they operate, how to configure them:

* Spanning Tree (IEEE, Rapid)
* Etherchannel (PAGP, LACP)
* HSRP (VRRP)

# Resources

Understanding STP

<http://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/5234-5.html>

Understanding RSTP (802.1w)

<http://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/24062-146.html>

Etherchannel 2960 12.2(55)SE

<http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960/software/release/12-2_55_se/configuration/guide/scg_2960/swethchl.html>

# Readings / Video

STP

<http://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/5234-5.html>

<http://www.cisco.com/image/gif/paws/10556/spanning_tree1.swf>

STP Video

https://www.youtube.com/watch?feature=player\_embedded&v=YkkFIxQxP\_0

HSRP

<http://www.lynda.com/CCNA-tutorials/Understanding-HSRP/385698/434030-4.html>

VRRP

<http://www.lynda.com/CCNA-tutorials/Understanding-VRRP/385698/434032-4.html>

# Lesson Content / Labs

* Presentations

\IN723 Topic2 Redundancy\IN723 Lesson1 STP.pptx

\IN723 Topic2 Redundancy\IN723 Lesson2 Etherchannel.pptx

\IN723 Topic2 Redundancy\IN723 Lesson3 FHRP.pptx

* Labs

STP

2.1.2.10 Building a Switched Network with redundant links

2.3.2.3 Rapid PVST+, BPDU Guard, port fast

2.3.1.5 PVST+ (PT)

Etherchannel

3.2.1.3 Configuring Etherchannel Instructions (PT)

3.2.1.4 Etherchannel

HSRP

4.3.3.4 HSRP

2.4.3.4 HSRP GLBP OSPF - optional

3.3.1.2 Integrated skills, Vlan, OSPF, Etherchannel (PT) - optional

VRRP Lab Research how to do 4.3.3.4 with VRRP - optional