Dept of Communication Systems 2006-09-21
Jens A Andersson vers 1.0

Routing Course

Assignment 1

In the first assignment you shall

1. Get acquainted with the router lab. Try to connect to all routers, both via the terminal server to the console ports (out of band management) and with telnet directly from the front-end host to the routers (in band management).
2. Get acquainted with IOS CLI. Move between the different modes. Try help and command completion.
3. Set up a network in the router lab. You can, within the physical limits of the Router Lab, design a network layout of your own. In this assignment only the ip addresses of the interfaces and some few static routes have to be configured.
4. Study CDP. What is the default configuration? What information does it give?
5. Study the debug command by debugging CDP. Describe the findings!
6. Setup static routing so it is possible to forward traffic from one router, used as a normal host, via a second router, to a third router, also used as a normal host.
7. Study the ping and traceroute commands in practise, both in normal and extended mode. Get knowledge of what information you get from the commands. Describe what happens when using another source address than the default source interface/address (Which is the default?).
8. Copy the current running configuration from one of the routers to the tfpt server. Also copy the running configuration of this router to the start-up configuration, and reload the router. Restore this routers default configuration from the tftp server, and reload again.

Your task is to present your preparations, planning and the carrying out of practical lab, and your findings in a written report. Add the final configuration from the forwarding router in exercise 6 to your report.

Before doing the practical lab you shall present a preliminary report covering your preparations and planning. This preliminary report must be approved before you may perform the actual lab.

An approved full report concludes this assignment.

Before you

Good luck!