Lab Access Instructions

Introduction

This lab runs on a virtualised environment for Cisco IOS called *Dynamips*. The method of access to each virtual router is via Telnet to a specific port on the IP of the machine that runs the virtualisation platform.

Lab access instructions

The instructors will divide the class into groups, where each group is responsible for the operation of the campus routers. Decide amongst yourselves which person will be responsible for configuring each router.

Access to Dynamips is by telnet, where each virtual router has a different port number in the table below.

Each participant should ensure that their device has a suitable telnet client. Linux and MacOS system have access to a shell command prompt (or Terminal) program, which allows telnet at the command line. Windows users should use Putty or another similar telnet program; make sure you select Telnet not SSH.

The instructor will provide the IP address of the host in this particular workshop. It will normally be s1.ws.nsrc.org, but the instructor will confirm this at the start of this lab.

Port to Router Image Map

Devices	Console Access
RREN	telnet s1.ws.nsrc.org 2001
NREN 1	telnet s1.ws.nsrc.org 2003
ISP 1	telnet s1.ws.nsrc.org 2004
NREN 2	telnet s1.ws.nsrc.org 2005
ISP 2	telnet s1.ws.nsrc.org 2006
Group 1 Device Name	**Console Access**
B11	telnet s1.ws.nsrc.org 2011
B12	telnet s1.ws.nsrc.org 2012
C11	telnet s1.ws.nsrc.org 2013
Group 2 Device Name	**Console Access**
B21	telnet s1.ws.nsrc.org 2021
B22	telnet s1.ws.nsrc.org 2022
C21	telnet s1.ws.nsrc.org 2023
Group 3 Device Name	**Console Access**
B31	telnet s1.ws.nsrc.org 2031
B32	telnet s1.ws.nsrc.org 2032

Devices	Console Access
C31	telnet s1.ws.nsrc.org 2033
Group 4 Device Name	**Console Access**
B41	telnet s1.ws.nsrc.org 2041
B42	telnet s1.ws.nsrc.org 2042
C41	telnet s1.ws.nsrc.org 2043
Group 5 Device Name	**Console Access**
B51	telnet s1.ws.nsrc.org 2051
B52	telnet s1.ws.nsrc.org 2052
C51	telnet s1.ws.nsrc.org 2053
Group 6 Device Name	**Console Access**
B61	telnet s1.ws.nsrc.org 2061
B62	telnet s1.ws.nsrc.org 2062
C61	telnet s1.ws.nsrc.org 2063

If there are more campuses, the port access scheme continues in the same style.

Log in instructions

Using the telnet client on your PC or laptop, connect to the routers you have been assigned; for example, to connect to the console port of B12:

```
telnet s1.ws.nsrc.org 2012
```

After executing the telnet command, you will see something like the following:

```
Trying s1.ws.nsrc.org...
Connected to s1.ws.nsrc.org.
Escape character is '^]'.
Connected to Dynamips VM "B12" (ID 8, type c7200) - Console port
```

Hit ENTER at this point. Then, you will see this question:

```
Would you like to enter the initial configuration dialog? [yes/no]:
```

Answer "no".

The router will show some initialization routines, and finally, you will see the default prompt:

```
Router>
```

You can then go into privileged mode:

```
Router> enable
Router#
```

And then enter configuration mode:

```
Router# configure terminal
Router(config)#
```

And you are ready to start entering configuration statements. When you are done, exit configuration mode and save your changes:

```
Router(config)# end
Router# write memory
```

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