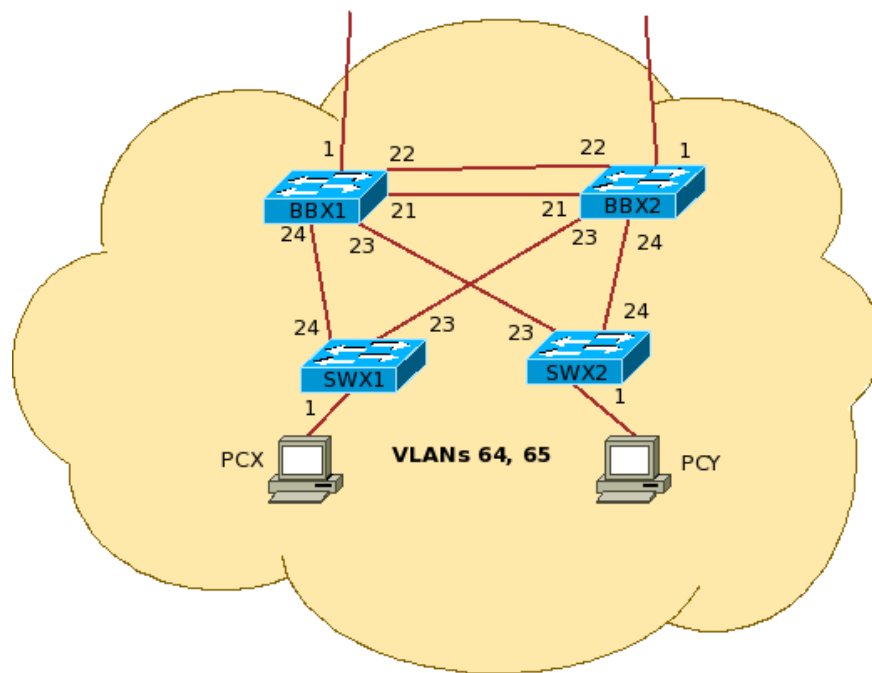
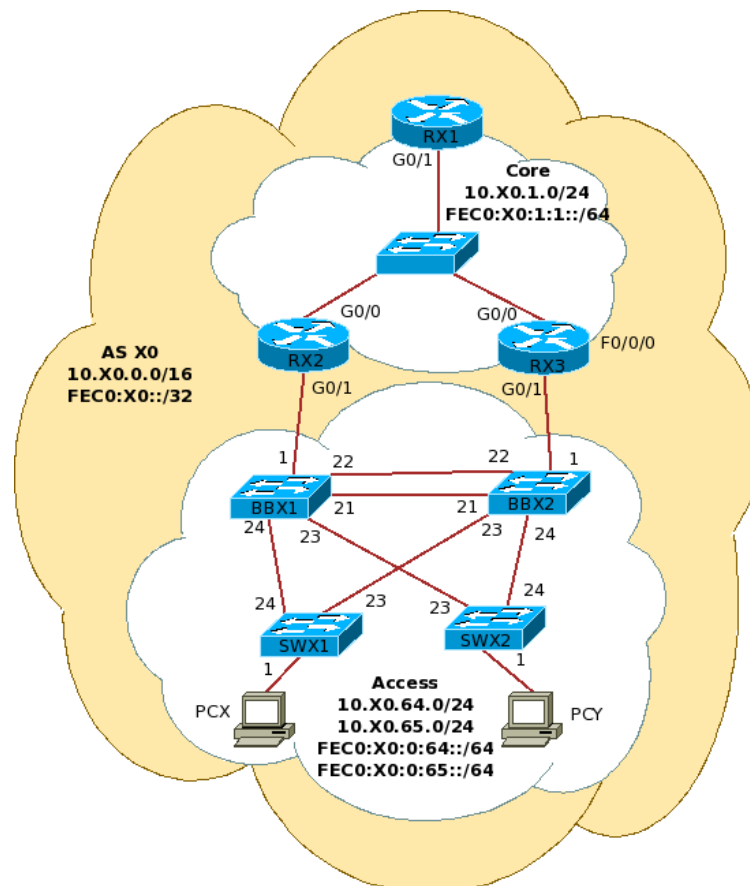


CAMPUS NETWORK DESIGN : CLASS TOPOLOGY AND NETWORK ACCESS INFO

Layer 2 Topology



Layer 3 Topology
(OSPF)



NSRC Lab - Instructions for accessing equipment remotely
Accessing the Switches, Workstations and Routers for the L2 and L3 Labs

I. Access the switches

Using the topology diagram and the following list to identify your devices and ssh to the terminal server:

```
Group 1 Switches : BB11, BB12, SW11, SW12
Group 2 Switches : BB21, BB22, SW21, SW22
Group 3 Switches : BB31, BB32, SW31, SW32
Group 4 Switches : BB41, BB42, SW41, SW42
Group 5 Switches : BB51, BB52, SW51, SW52
```

Each person in the group chooses a switch they will manage:

Remember: 1 person = 1 switch

All the switches will be accessed via their serial console.

Access to the consoles will take place via a terminal server using the Secure Shell (SSH), using a different user for each serial port:

```

                user nsrc:BB11  +-----+ --serial-- [switch BB11]
                user nsrc:SW11  |         | --serial-- [switch SW11]
YOU --- SSH  ----->-----+  con.lab.nsrc.org  |
                user nsrc:BB51  |         | --serial-- [switch BB51]
                user nsrc:SW52  +-----+ --serial-- [switch SW52]
```

EXAMPLE:

If you are in Group 1, and you want to log in to switch BB12, you would ssh as the USER "nsrc:SWITCH", for example:

```
nsrc:BB12 for BB12
nsrc:SW52 for SW52
```

If using Putty on Windows:

1. In the 'Host Name' box, enter con.lab.nsrc.org
2. Press the 'Open' button, and wait until you see a login prompt:

login as:

... then enter the username "nsrc:SWITCH as chosen above.

If you are using Linux:

```
ssh -l nsrc:SWITCH con.lab.nsrc.org
```

... and remember to change SWITCH with the device you have chosen:

```
nsrc:BB11
nsrc:SW21
```

etc.

- * PLEASE LOG INTO THE PROPER SWITCH FOR YOUR GROUP AND DO NOT
- * LOG IN TO ANOTHER GROUP'S SWITCH!
- *
- * NO PASSWORDS SHOULD BE REQUIRED! IF YOU ARE ASKED FOR A PASSWORD,
- * MOST LIKELY YOU HAVE NOT LOGGED INTO A SWITCH

II. Access the workstations

Now, just as before for the switches, we are going to connect to the workstations (Linux).

```
Group 1 Workstations : ws1, ws6
Group 2 Workstations : ws2, ws7
Group 3 Workstations : ws3, ws8
Group 4 Workstations : ws4, ws9
Group 5 Workstations : ws5, ws10
```

Remember: 1 person = 1 Workstation

If using Putty on Windows:

1. In the 'Host Name' box, enter wsX.lab.nsrc.org (X = 1 - 10)
2. Press the 'Open' button, and wait until you see a login prompt:

login as:

... then enter the username "nsrc" as chosen above.

Access to the Linux workstations is via SSH, for example:

```
ssh -l nsrc wsX.lab.nsrc.org          # (where X = 1 - 10)
```

The username is **always** nsrc on the workstations

```
*****
* The password will be given in class! *
*****
```

THIS IS FOR THE L3 LAB ONLY !

III. Access the routers

Just like for the Switches and Workstations, we're now going to access the routers.

In the same fashion, once you have decided (or been told) which router you will configure:

Group 1 Routers	: R11, R12, R13
Group 2 Routers	: R21, R22, R23
Group 3 Routers	: R31, R32, R33
Group 4 Routers	: R41, R42, R43
Group 5 Routers	: R51, R52, R53

Remember: 1 person = 1 Router

If using Putty on Windows:

1. In the 'Host Name' box, enter con.lab.nsrc.org
2. Press the 'Open' button, and wait until you see a login prompt:

login as:

... then enter the username "nsrc:ROUTER as chosen above, where router will be the device you will manage:

nsrc:R11 if it's R11
nsrc:R12 if it's R12

etc.

From a Linux shell:

ssh -l nsrc:ROUTER con.lab.nsrc.org

... and remember to change ROUTER with the device you have chosen:

nsrc:R11
nsrc:R12

etc.

* The password will be given in class! *
