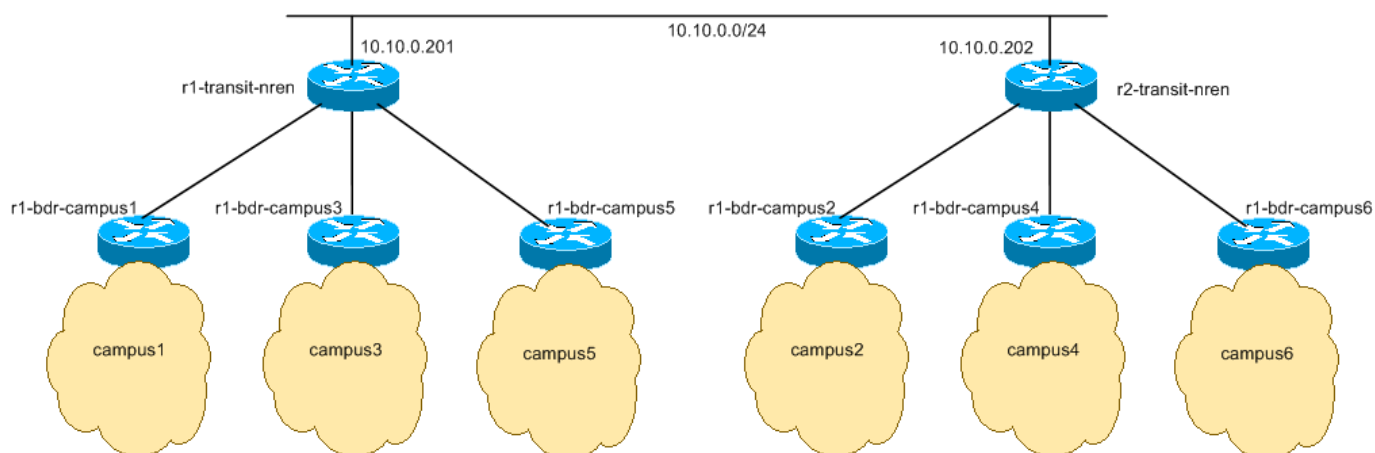


IP Address Plan

The following diagram shows the layout of our network for the workshop. The two routers at the top are the **NREN** and these are connected to the workshop subnet.



For the lab exercises, each group has been allocated the following address space for their campus:

Campus	Public IPv4	Private IPv4	IPv6
Campus 1	100.68.1.0/24	172.21.0.0/16	2001:db8:1::/48
Campus 2	100.68.2.0/24	172.22.0.0/16	2001:db8:2::/48
Campus 3	100.68.3.0/24	172.23.0.0/16	2001:db8:3::/48
Campus 4	100.68.4.0/24	172.24.0.0/16	2001:db8:4::/48
Campus 5	100.68.5.0/24	172.25.0.0/16	2001:db8:5::/48
Campus 6	100.68.6.0/24	172.26.0.0/16	2001:db8:6::/48

You will be given details the addresses to use for routers and switches as we work through the exercises but they will be allocated from these blocks:

Network	IPv4	IPv6
Router core	100.68.X.0/28	2001:db8:X:0::/64
NAT Pool	100.68.X.32/28	Not Applicable
Servers	100.68.X.128/28	2001:db8:X:1::/64
Loopbacks	100.68.X.240/28	2001:db8:X:2::/64
Building 1 Management	172.2X.0.0/28	2001:db8:X:3::/64
Building 2 Management	172.2X.0.16/28	2001:db8:X:4::/64
Building 1 Staff	172.2X.51.0/24	2001:db8:X:51::/64
Building 2 Staff	172.2X.52.0/24	2001:db8:X:52::/64
Building 1 Student	172.2X.61.0/24	2001:db8:X:61::/64
Building 2 Student	172.2X.62.0/24	2001:db8:X:62::/64

You will need to replace '**X**' with the number of your campus group!

The following IPv4 address ranges have been assigned by the NREN for the links to the Border routers:

Campus	NREN Link Subnet	NREN Router Address	Campus Border Router Address
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Campus 1	100.68.0.0/30	100.68.0.1	100.68.0.2
Campus 2	100.68.0.4/30	100.68.0.5	100.68.0.6
Campus 3	100.68.0.8/30	100.68.0.9	100.68.0.10
Campus 4	100.68.0.12/30	100.68.0.13	100.68.0.14
Campus 5	100.68.0.16/30	100.68.0.17	100.68.0.18
Campus 6	100.68.0.20/30	100.68.0.21	100.68.0.22

The following IPv6 address ranges have been assigned by the NREN for the links to the Border routers:

Campus	NREN Link Subnet	NREN Router Address	Campus Border Router Address
Campus 1	2001:db8:0:1::/127	2001:db8:0:1::0	2001:db8:0:1::1
Campus 2	2001:db8:0:2::/127	2001:db8:0:2::0	2001:db8:0:2::1
Campus 3	2001:db8:0:3::/127	2001:db8:0:3::0	2001:db8:0:3::1
Campus 4	2001:db8:0:4::/127	2001:db8:0:4::0	2001:db8:0:4::1
Campus 5	2001:db8:0:5::/127	2001:db8:0:5::0	2001:db8:0:5::1
Campus 6	2001:db8:0:6::/127	2001:db8:0:6::0	2001:db8:0:6::1

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