

IPv6 ADDRESSING SCHEME – Lab 9

Figure 1 below displays the addressing plan to be used for Lab 9. The plan itself is explained in the notes accompanying the workshop Lab notes. Each subnet is a /127, apart from the link to the classroom switch which is a /64.

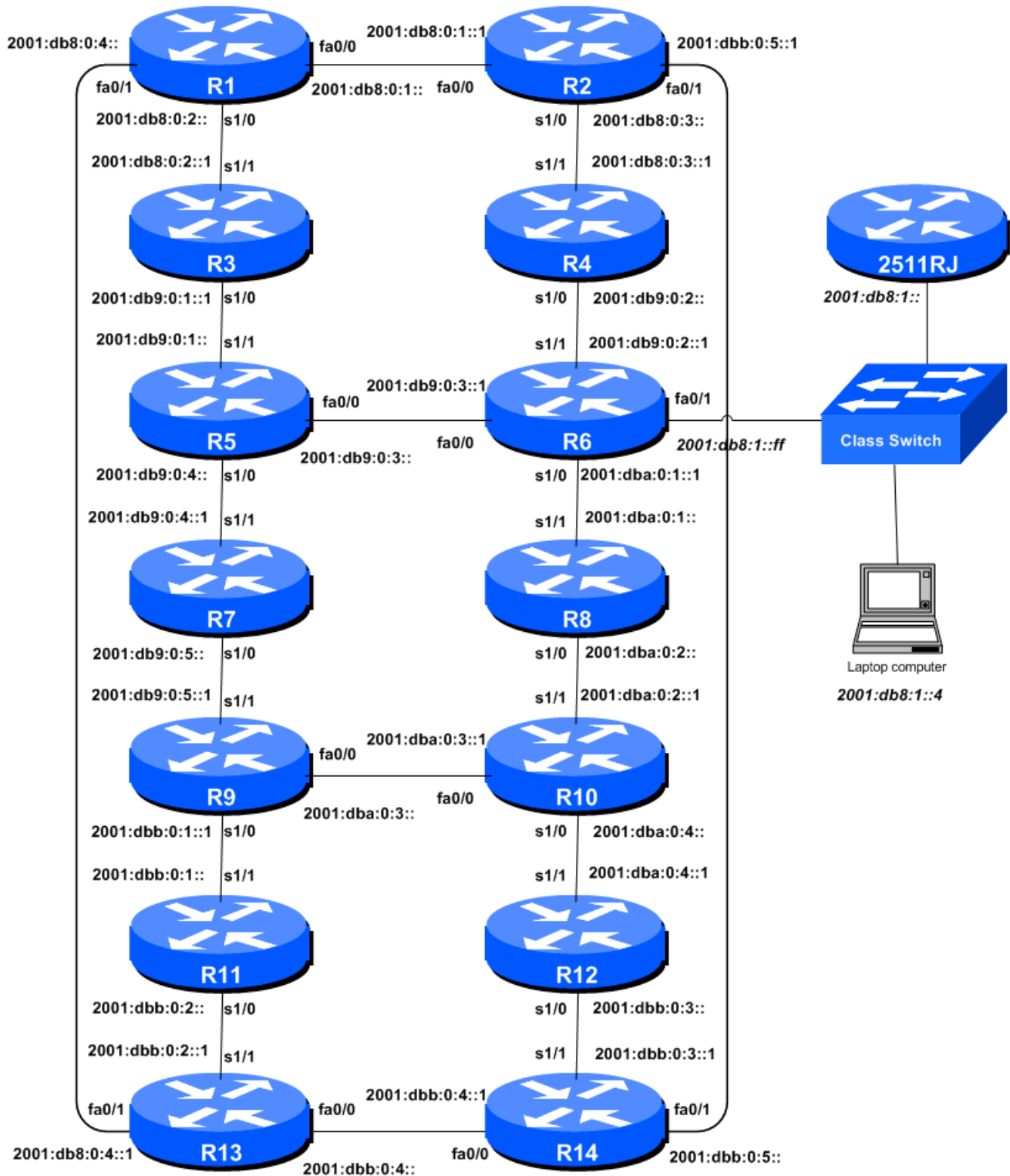


Figure 1 - Addressing scheme for Lab 9

IPv6 Address Blocks – Lab 9

ASN	Address Block	ASN	Address Block
10	2001:db8::/32	30	2001:dba::/32
20	2001:db9::/32	40	2001:dbb::/32

Table 1 – IPv6 Address Blocks assigned to each ASN, Lab 9

IPv6 Loopback Addresses – Lab 9

Router	Loopback Address	Router	Loopback Address
R1	2001:db8::1/128	R8	2001:dba::1/128
R2	2001:db8::2/128	R9	2001:dba::2/128
R3	2001:db8::3/128	R10	2001:dba::3/128
R4	2001:db9::1/128	R11	2001:dbb::1/128
R5	2001:db9::2/128	R12	2001:dbb::2/128
R6	2001:db9::3/128	R13	2001:dbb::3/128
R7	2001:db9::4/128	R14	2001:dbb::4/128

Table 2 – IPv6 Loopback Addresses assigned to each Router, Lab 9

IPv6 “Customer” Addresses – Lab 9

Router	Loopback Address	Router	Loopback Address
R1	2001:db8:1::/48	R8	2001:dba:1::/48
R2	2001:db8:2::/48	R9	2001:dba:2::/48
R3	2001:db8:3::/48	R10	2001:dba:3::/48
R4	2001:db9:1::/48	R11	2001:dbb:1::/48
R5	2001:db9:2::/48	R12	2001:dbb:2::/48
R6	2001:db9:3::/48	R13	2001:dbb:3::/48
R7	2001:db9:4::/48	R14	2001:dbb:4::/48

Table 3 – IPv6 “Customer” Addresses assigned to each Router, Lab 9