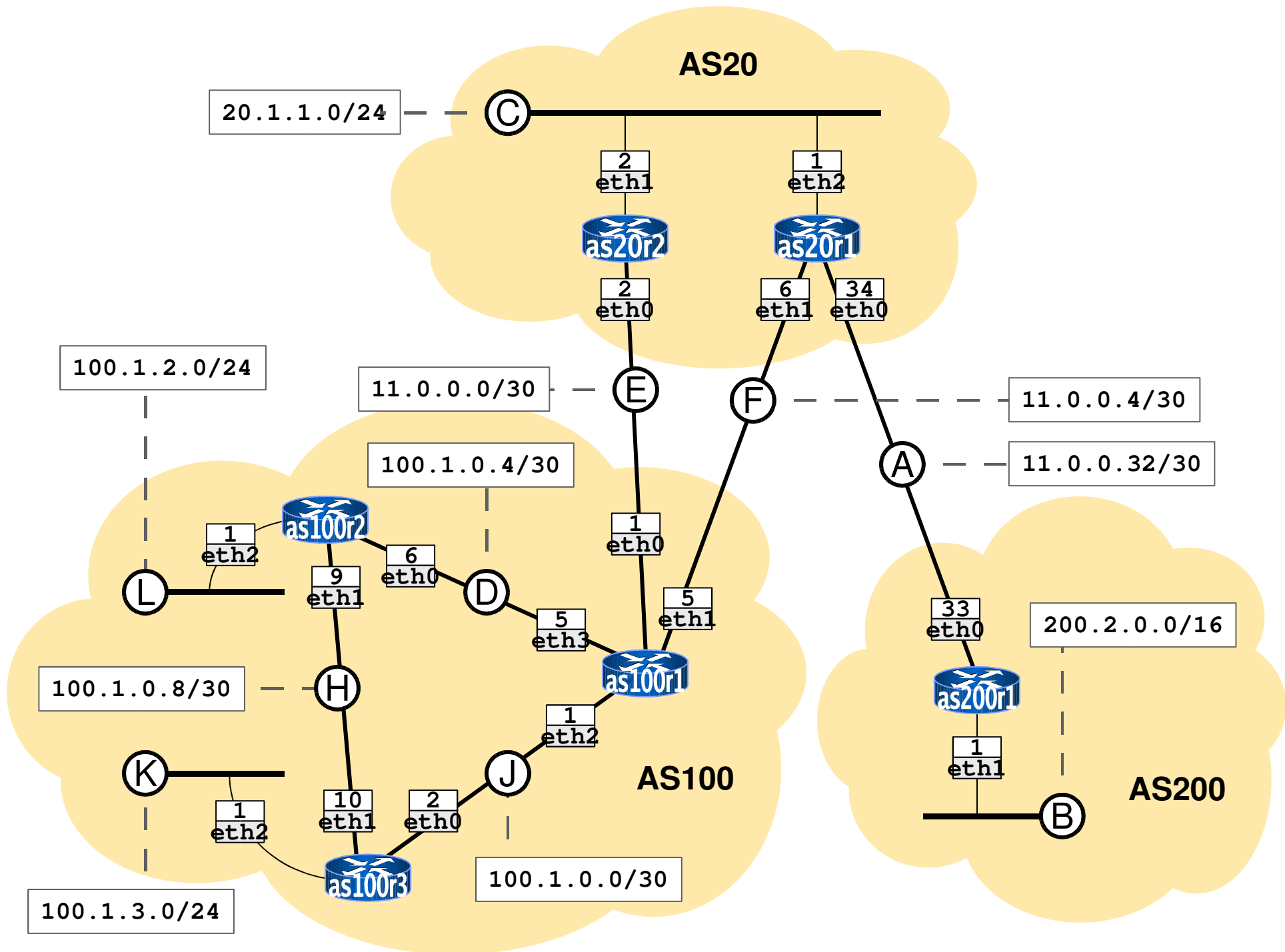


Using NetML
to describe networks running
RIP and BGP



Using NetML to describe networks running RIP and BGP - 22/10/2003

Bgp-Rip.xml

Checking routing

```
r_100_1-as100r1:~# route -n
Kernel IP routing table
Destination      Gateway          Genmask          Flags Metric Ref    Use Iface
100.1.0.0        0.0.0.0         255.255.255.252 U        0      0      0 eth2
11.0.0.4         0.0.0.0         255.255.255.252 U        0      0      0 eth1
11.0.0.0         0.0.0.0         255.255.255.252 U        0      0      0 eth0
100.1.0.4        0.0.0.0         255.255.255.252 U        0      0      0 eth3
100.1.0.8        100.1.0.6       255.255.255.252 UG       2      0      0 eth3
20.1.1.0         11.0.0.2        255.255.255.0   UG       0      0      0 eth0
0.0.0.0          11.0.0.2        0.0.0.0          UG       0      0      0 eth0
```

```
r_100_1-as100r1:~# traceroute -n 20.1.1.1
traceroute to 20.1.1.1 (20.1.1.1), 64 hops max, 40 byte packets
 1  11.0.0.2  1 ms  0 ms  1 ms
 2  20.1.1.1  1 ms  1 ms  1 ms
```

bgp-multi-homed.xml

zebra bgp table

```
R_100_1-as100r1# show ip bgp
```

```
BGP table version is 0, local router ID is 100.1.0.1
```

```
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal
```

```
Origin codes: i - IGP, e - EGP, ? - incomplete
```

	Network	Next Hop	Metric	LocPrf	Weight	Path
*	0.0.0.0	11.0.0.2	0		0	20 i
*>		11.0.0.6	0		0	20 i
*	11.0.0.0/30	11.0.0.2	0		0	20 ?
*		11.0.0.6			0	20 ?
*>		0.0.0.0	0		32768	?
*	11.0.0.4/30	11.0.0.2			0	20 ?
*		11.0.0.6	0		0	20 ?
*>		0.0.0.0	0		32768	?
*	20.1.1.0/24	11.0.0.6	0		0	20 ?
*>		11.0.0.2	0		0	20 ?
*	100.1.0.0/16	0.0.0.0	0		32768	?
*>		0.0.0.0	0		32768	i

```
Total number of prefixes 5
```