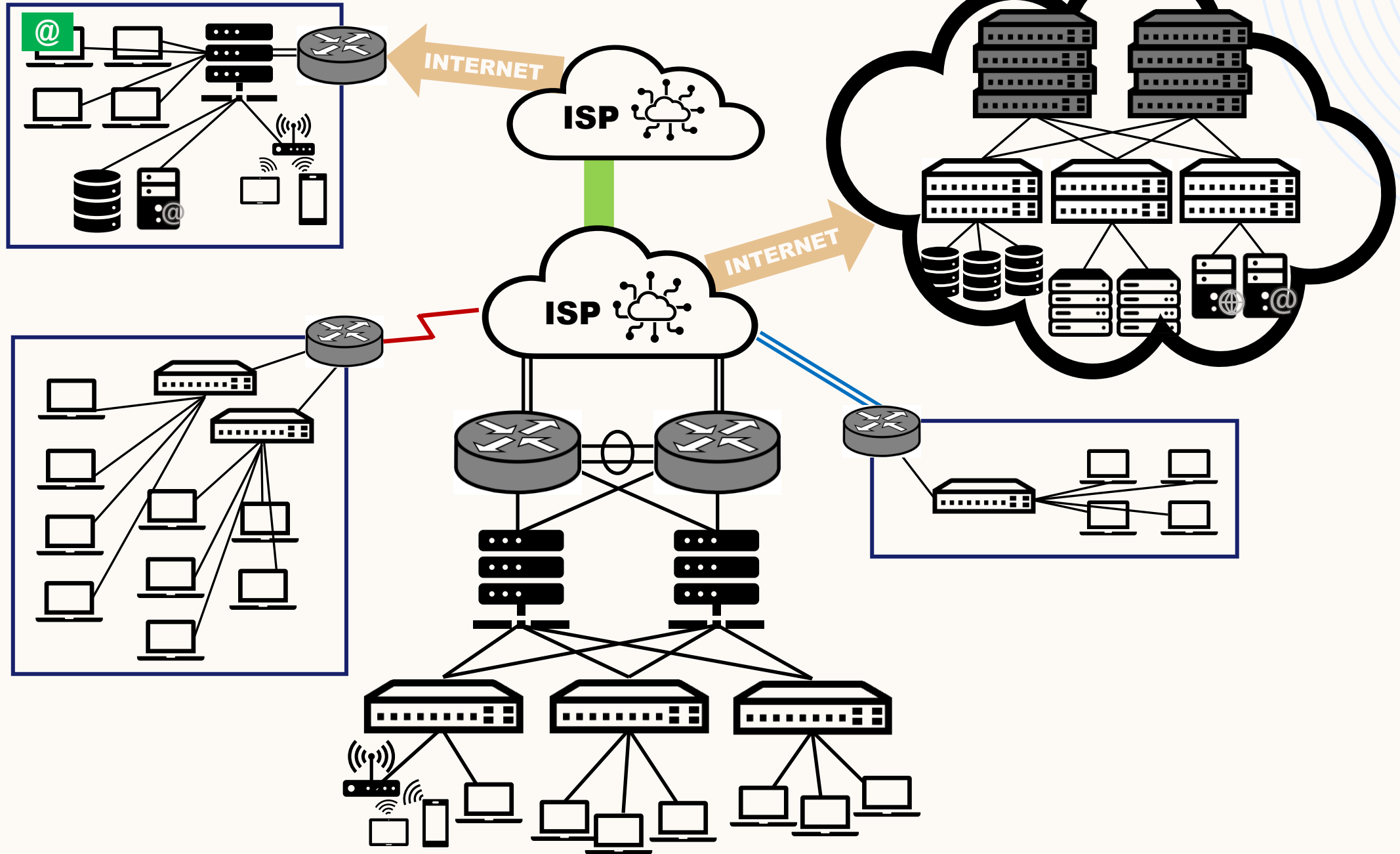


THE NETWORK LAYER

CyberQuince





THE ROUTER

A router is a networking device that forwards data packets between computer networks.

Routers perform the traffic directing functions on the Internet.

ROUTING

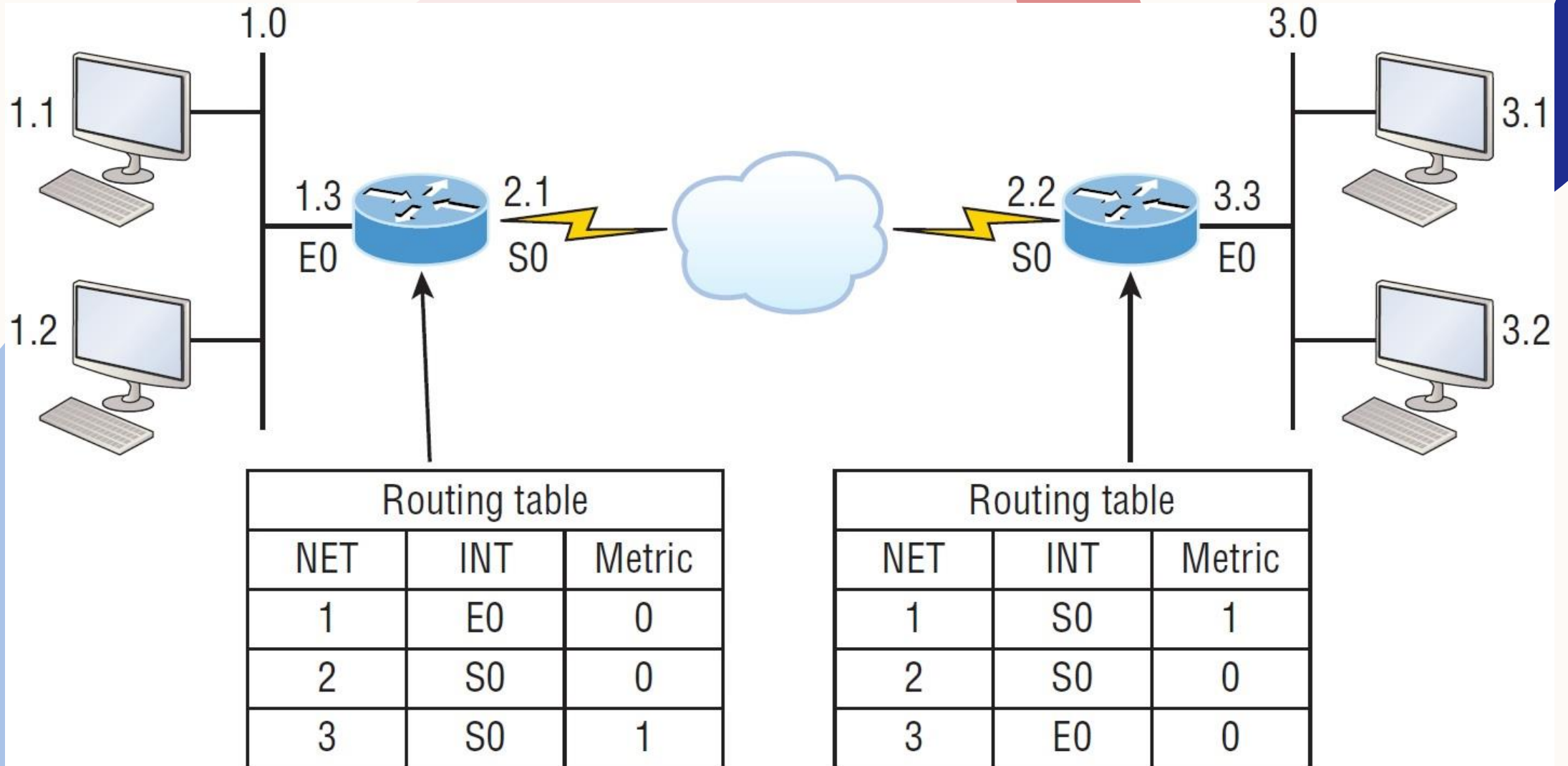
```
ylara@R1> show route forwarding-table
```

```
Routing table: default.inet
```

```
Internet:
```

Destination	Type	RtRef	Next hop	Type	Index	NhRef	Netif
Default	perm	0		rjct	36	1	
0.0.0.0/32	perm	0		dscd	34	1	
10.10.1.0/24	intf	0		rslv	542	1	fe-0/0/3.0
10.10.1.0/32	dest	0	10.10.1.0	recv	540	1	fe-0/0/3.0
10.10.1.2/32	intf	0	10.10.1.2	locl	541	2	
10.10.1.2/32	dest	0	10.10.1.2	locl	541	2	
10.10.1.255/32	dest	0	10.10.1.255	bcst	539	1	fe-0/0/3.0
10.10.3.0/24	intf	0		rslv	538	1	fe-0/0/2.0
10.10.3.0/32	dest	0	10.10.3.0	recv	536	1	fe-0/0/2.0
10.10.3.1/32	intf	0	10.10.3.1	locl	537	2	
10.10.3.1/32	dest	0	10.10.3.1	locl	537	2	
10.10.3.255/32	dest	0	10.10.3.255	bcst	535	1	fe-0/0/2.0
10.10.4.0/24	intf	0		rslv	530	1	fe-0/0/0.0
10.10.4.0/32	dest	0	10.10.4.0	recv	528	1	fe-0/0/0.0
10.10.4.1/32	intf	0	10.10.4.1	locl	529	2	
10.10.4.1/32	dest	0	10.10.4.1	locl	529	2	
10.10.4.255/32	dest	0	10.10.4.255	bcst	527	1	fe-0/0/0.0
10.10.5.0/24	intf	0		rslv	534	1	fe-0/0/1.0
10.10.5.0/32	dest	0	10.10.5.0	recv	532	1	fe-0/0/1.0

ROUTING





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