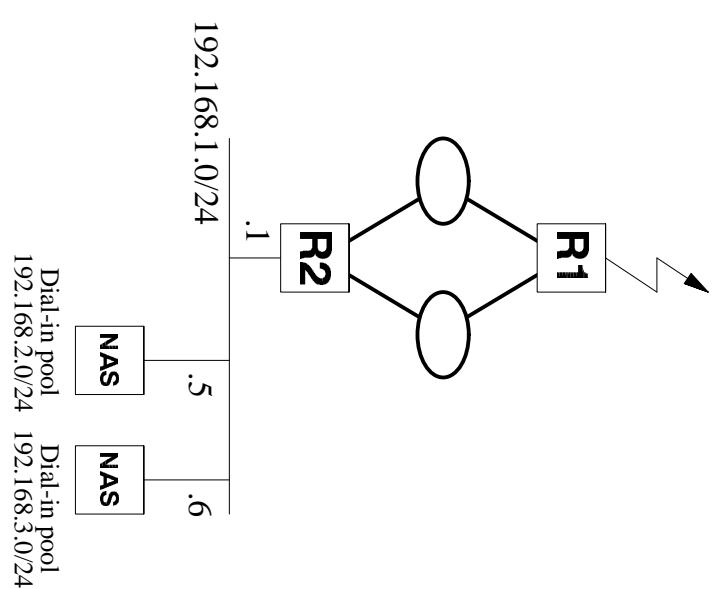
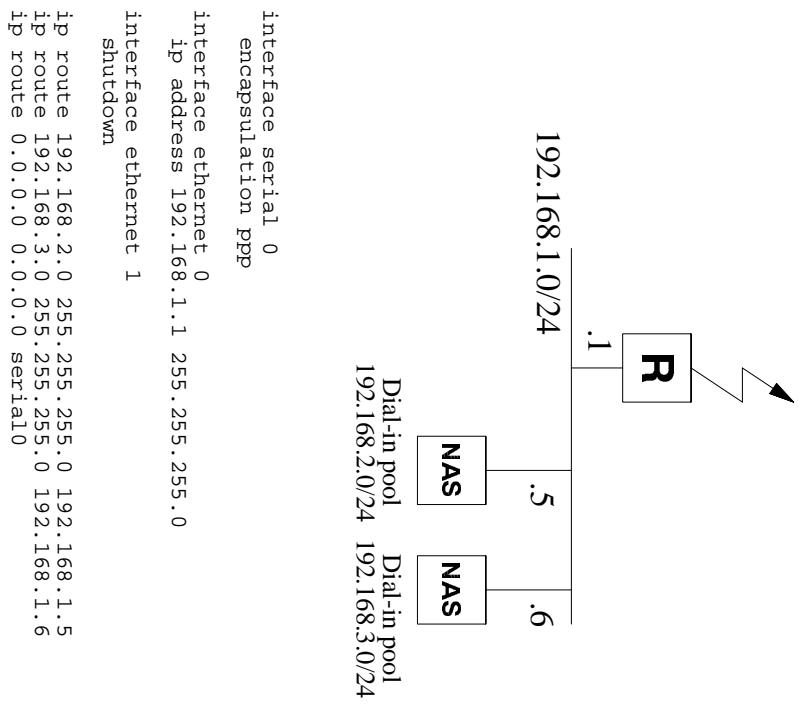


Initial rollout of core network

2. ...After

1. Before...



Design

Plan

Write a plan for converting "before" into "after": Goals:

- (1) cause as little disruption to traffic as possible
- (2) at each stage have a roll-back plan for undoing any changes

You can assume that the existing border R has a spare ethernet interface. List any other assumptions you make.

List the equipment and materials you will need.

R1 config

```
interface serial 0
encapsulation ppp
interface ethernet 0
ip address 192.168.2.2 255.255.255.240
interface ethernet 1
ip address 192.168.2.18 255.255.255.240
router ospf 1
default-information originate metric 100
...
ip route 0.0.0.0 0.0.0.0 serial0
```

R2 config

```
interface ethernet 0
ip address 192.168.2.3 255.255.255.240
interface ethernet 1
ip address 192.168.2.19 255.255.255.240
interface ethernet 2
ip address 192.168.1.1 255.255.255.0
router ospf 1
redistribute static subnets
redistribute connected subnets
...
ip route 192.168.2.0 255.255.255.0 192.168.1.5
ip route 192.168.3.0 255.255.255.0 192.168.1.6
```

IP addressing

Allocate new subnets for the core networks: 192.168.2.0/28 and 192.168.2.16/28
Take .1 and .17 for the switches themselves (management address)
Take .2 and .18 for R1
Take .3 and .19 for R2