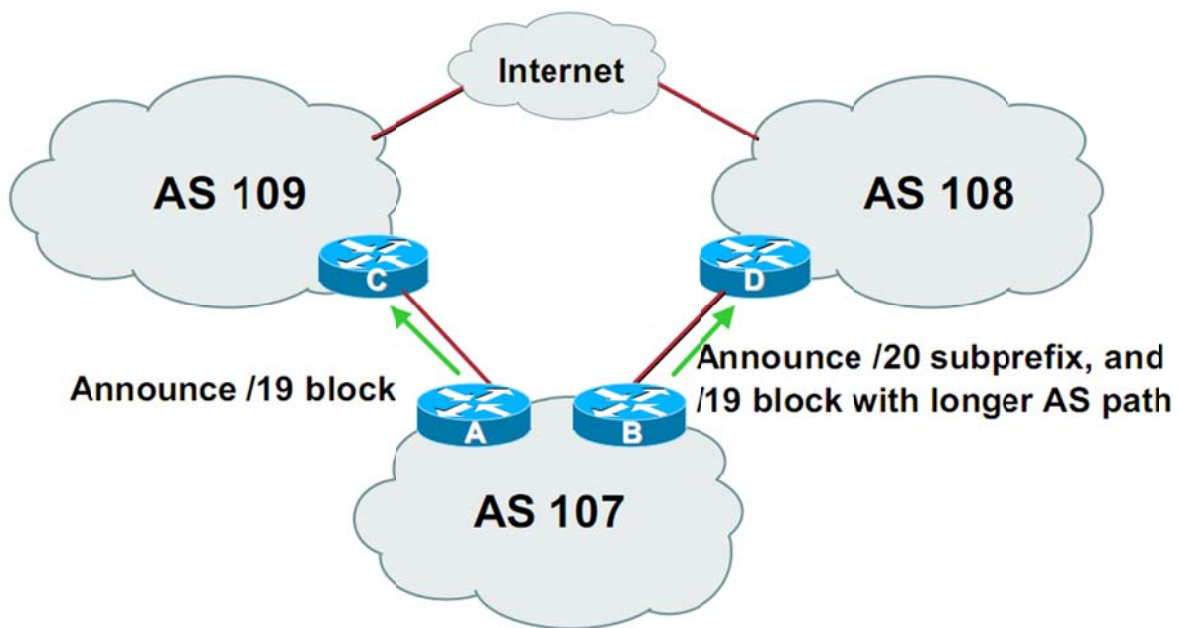


BGP for Internet Service Providers

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Loadsharing with different ISPs

Announce /19 aggregate on each link

On first link, announce /19 as normal

On second link, announce /19 with longer AS

PATH, and announce one /20 subprefix

controls loadsharing between upstreams and the
Internet

Vary the subprefix size and AS PATH length

until “perfect” loadsharing achieved

Router A Configuration

```
router bgp 107
```

```
network 221.10.0.0 mask 255.255.224.0
```

```
neighbor 222.222.10.1 remote-as 109
```

```
neighbor 222.222.10.1 prefix-list default in
```

```
neighbor 222.222.10.1 prefix-list aggregate out
```

```
!
```

```
ip prefix-list aggregate permit 221.10.0.0/19
```

Router B Configuration

```
router bgp 107
network 221.10.0.0 mask 255.255.224.0
network 221.10.16.0 mask 255.255.240.0
neighbor 220.1.5.1 remote-as 108
neighbor 220.1.5.1 prefix-list default in
neighbor 220.1.5.1 prefix-list subblocks out
neighbor 220.1.5.1 route-map routerD out
!
route-map routerD permit 10
match ip address prefix-list aggregate
set as-path prepend 107 107
route-map routerD permit 20
ip prefix-list subblocks permit 221.10.0.0/19 le 20
ip prefix-list aggregate permit 221.10.0.0/19
```