

RPKI Workshop

Routing Lab

ARIN / San Juan

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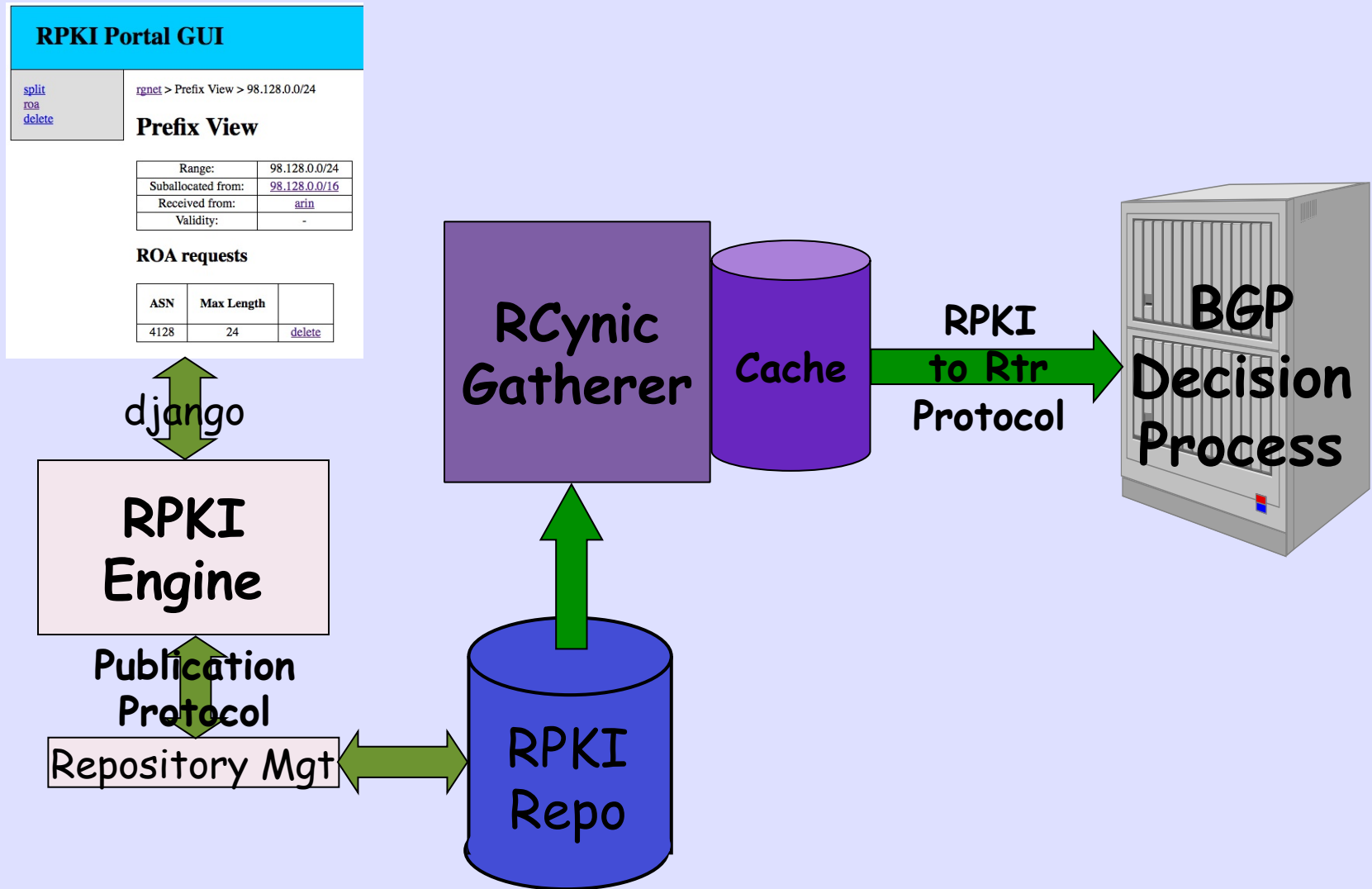
Rob Austein <sra@isc.org>

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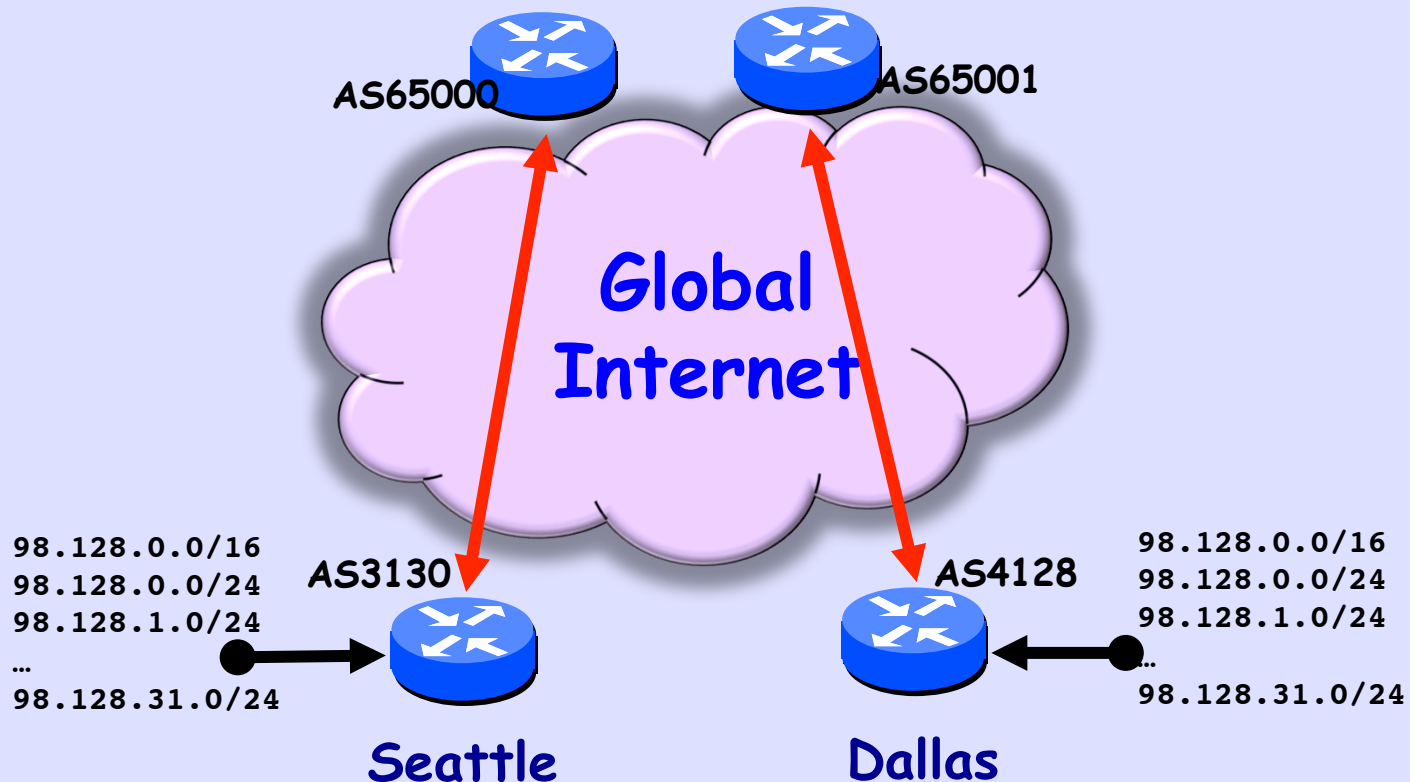
Philip Smith <pfs@cisco.com>

<http://archive.psg.com/110410.arin-lab.pdf>

Lab Overview



BGP Feeds into Lab



DynaMIPS on MacBook Pro 17"

10.0.0.0/8

RPKI-Rtr
Protocol

AS65000

AS65001

192.168.173.0/24
Global
Internet

RPKI
Cache

98.128.0.0/16
98.128.0.0/24
98.128.1.0/24
...
98.128.31.0/24

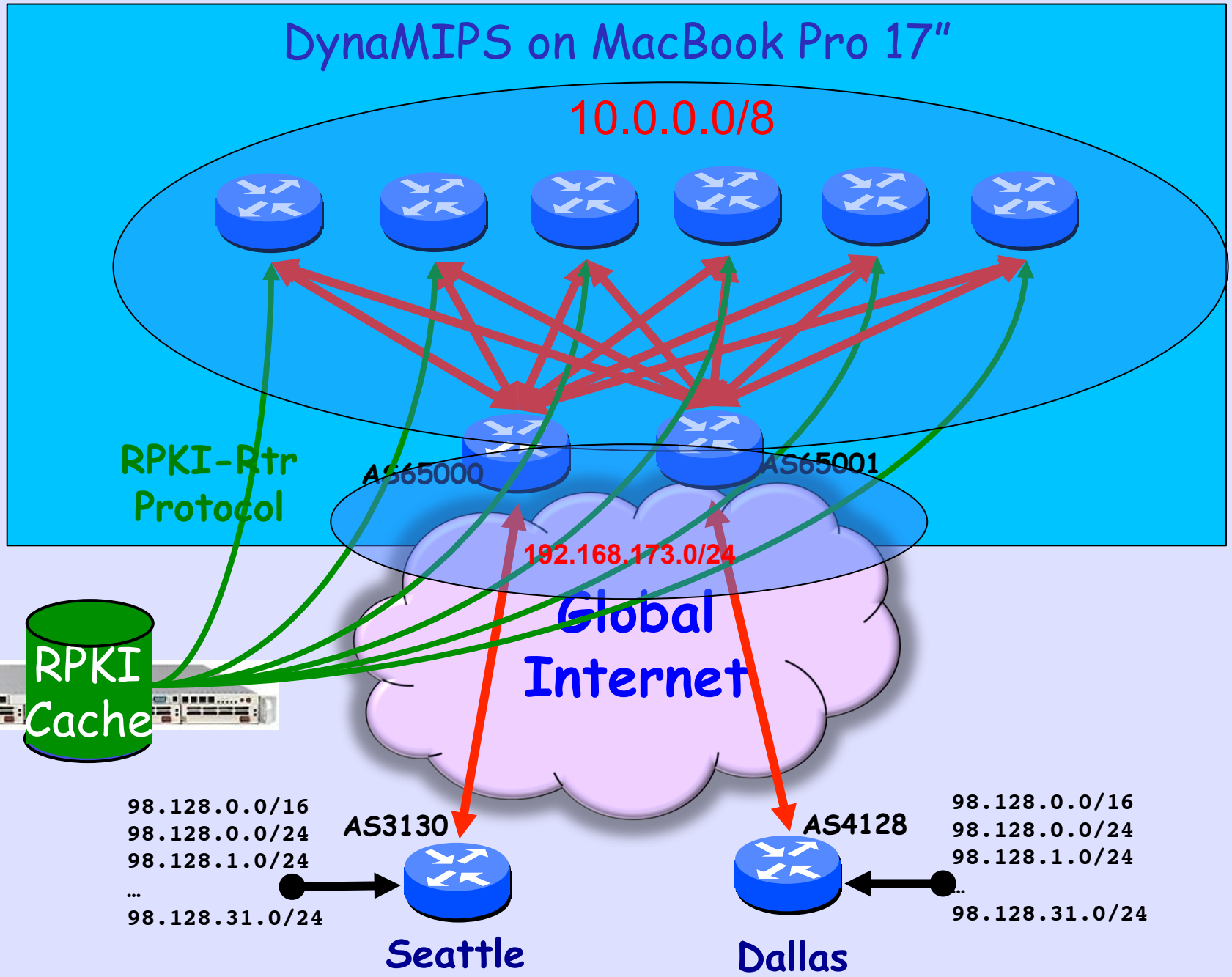
AS3130

Seattle

98.128.0.0/16
98.128.0.0/24
98.128.1.0/24
...
98.128.31.0/24

AS4128

Dallas



IP Address Allocation

98.128.0.0/16 ARIN Experimental Allocation

98.128.0.0/24 Instructors Play

98.128.1.0/24 labuser01

98.128.2.0/24 labuser02

...

GUI Accounts

<https://demo.rpki.net/rpki>

<u>UserID</u>	<u>Password</u>
labuser01	fnord
labuser02	fnord
labuser03	fnord
...	
labuser12	fnord

Router Accounts

```
telnet rmac.psg.com 20xx (your UserID)
```

```
user: cisco
```

```
password: cisco
```

```
enable: cisco
```

Configure RPKI Server

```
router bgp <AS>
```

```
bgp rpki server tcp <ip address> port <port>  
refresh <time in sec>
```

```
router bgp 650xx
```

```
bgp rpki server tcp 198.180.150.1 port \  
42420 refresh 120
```


Check Server

```
show ip bgp rpki servers
```

Look at Table

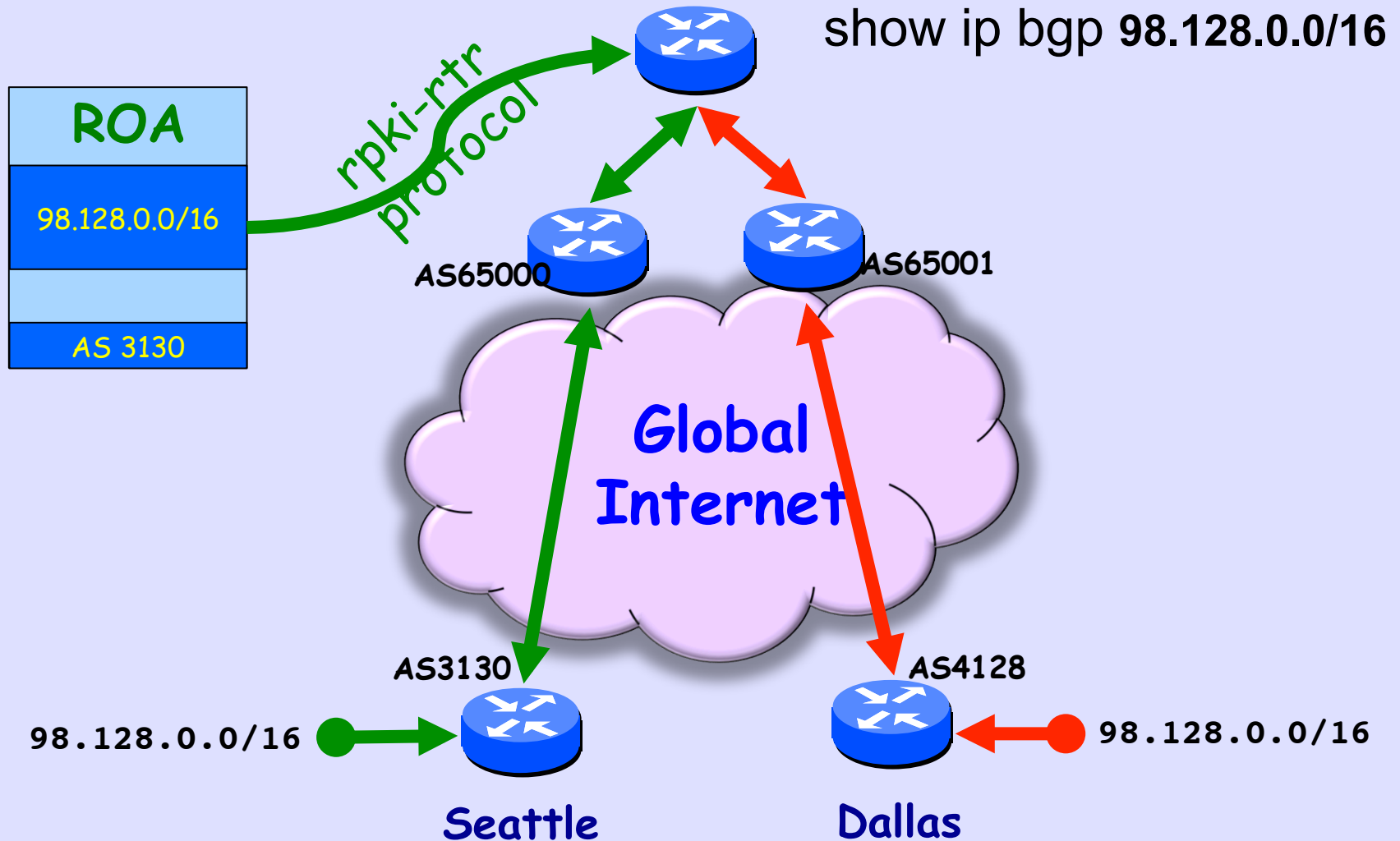
```
show ip bgp rpki table
```

```
show ip bgp ipv6 unicast rpki table
```

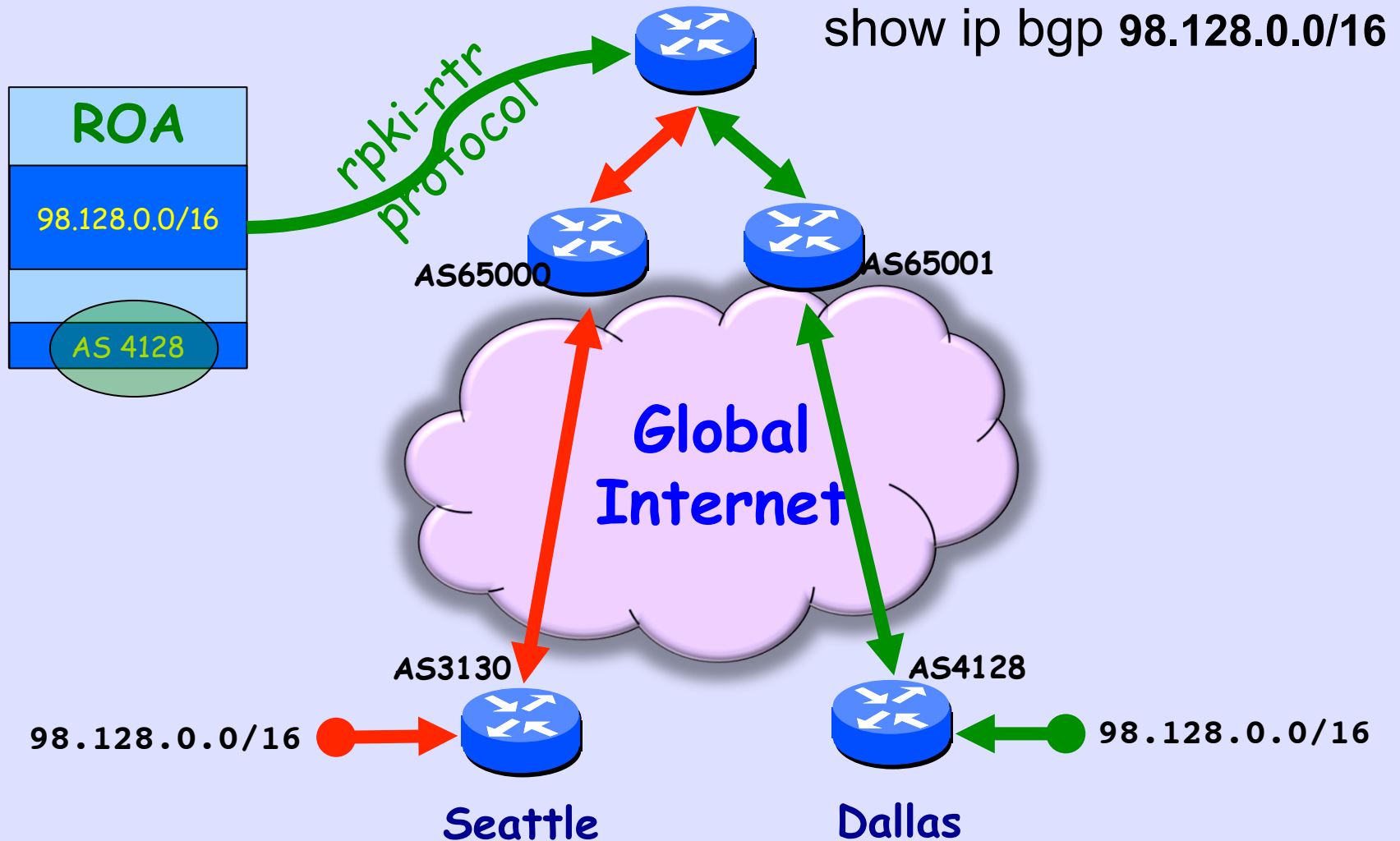
Look at a Prefix

```
show ip bgp 98.128.0.0/16
```

Fat-Finger Detected



ROA Controls Validity



Try Your Own /24

