Geolocation and Latency Records

Ben Piper
AWS CERTIFIED SOLUTIONS ARCHITECT

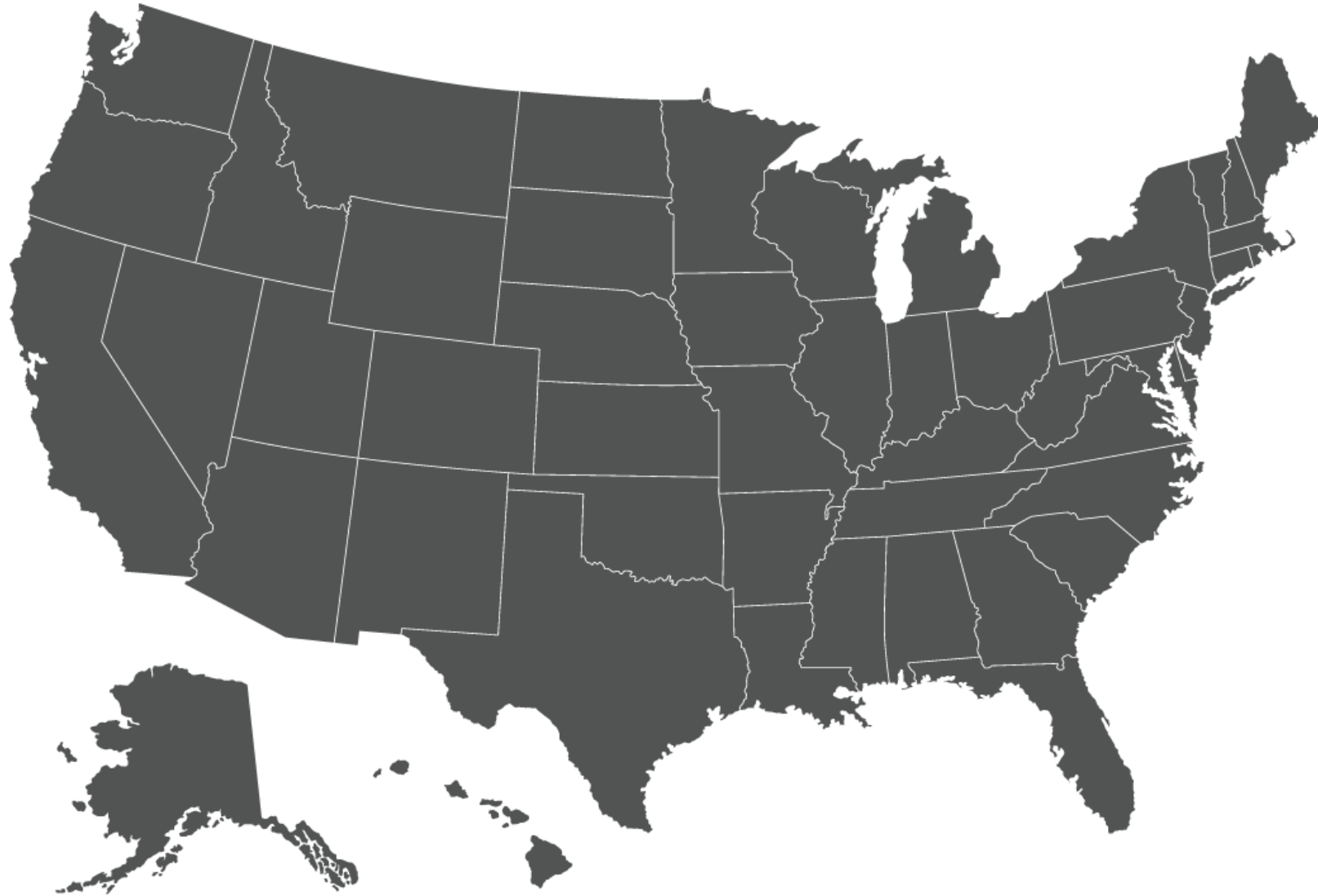https://benpiper.com

Geolocation and Latency Records

Each Route 53 configuration is unique

Your lab experience will differ from the videos
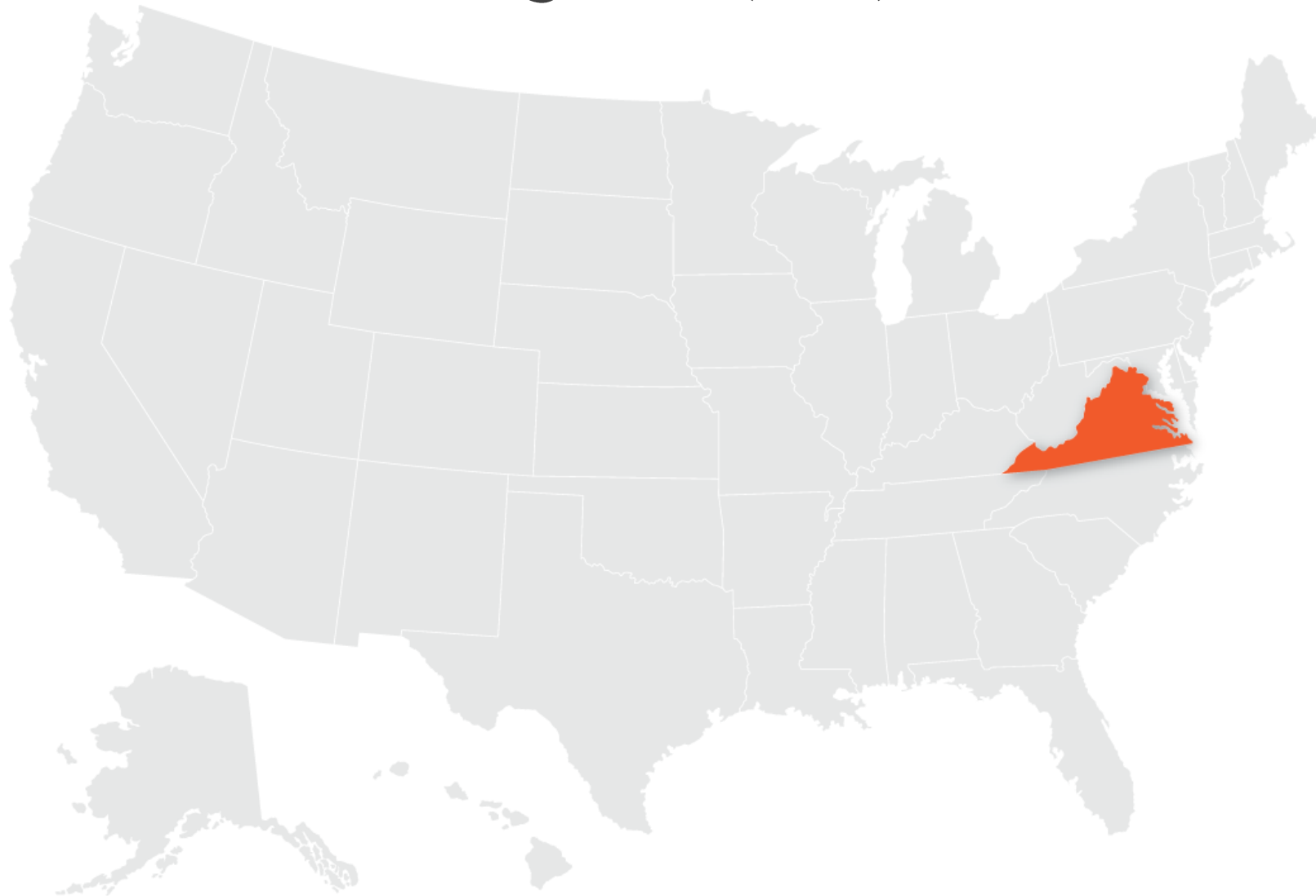
The United States (USA)

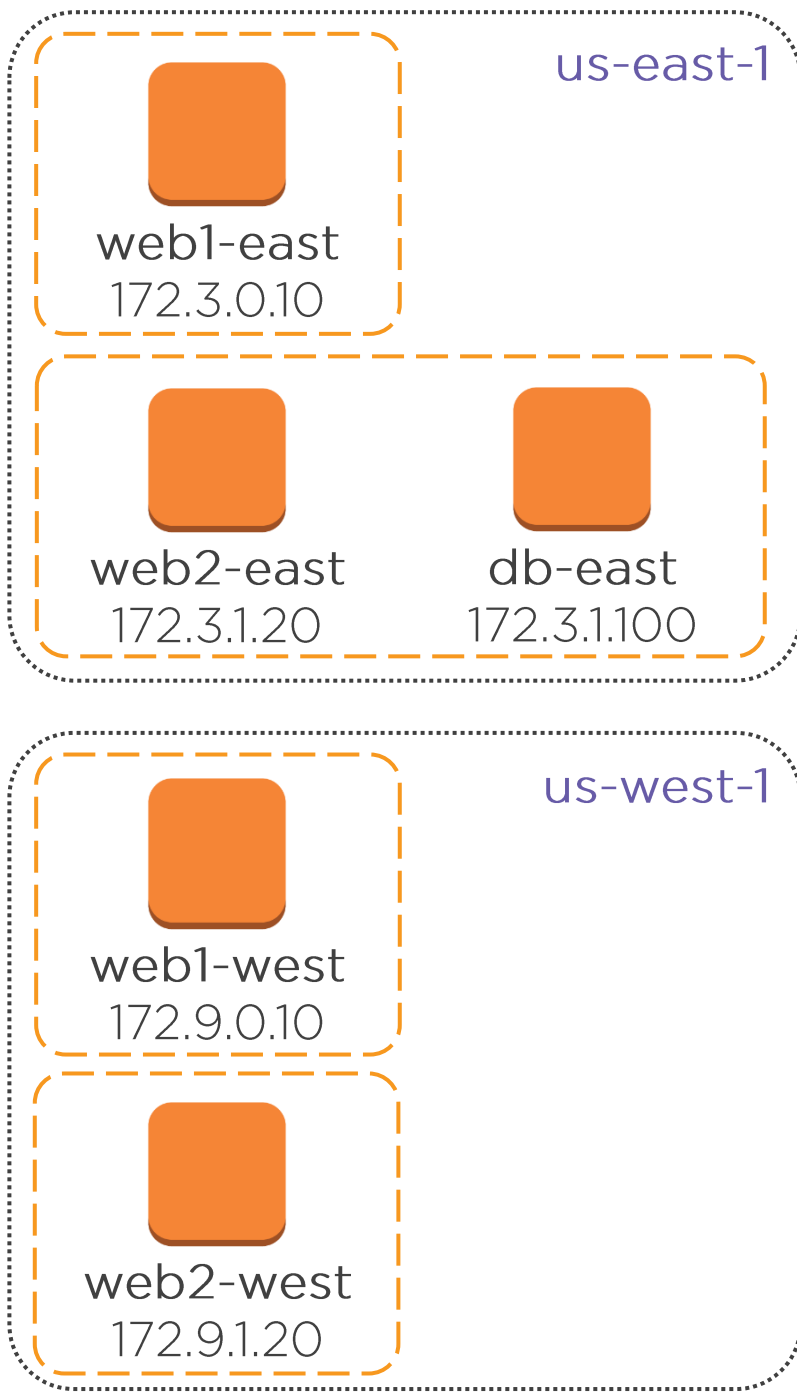# California (CA)

Virginia (VA)

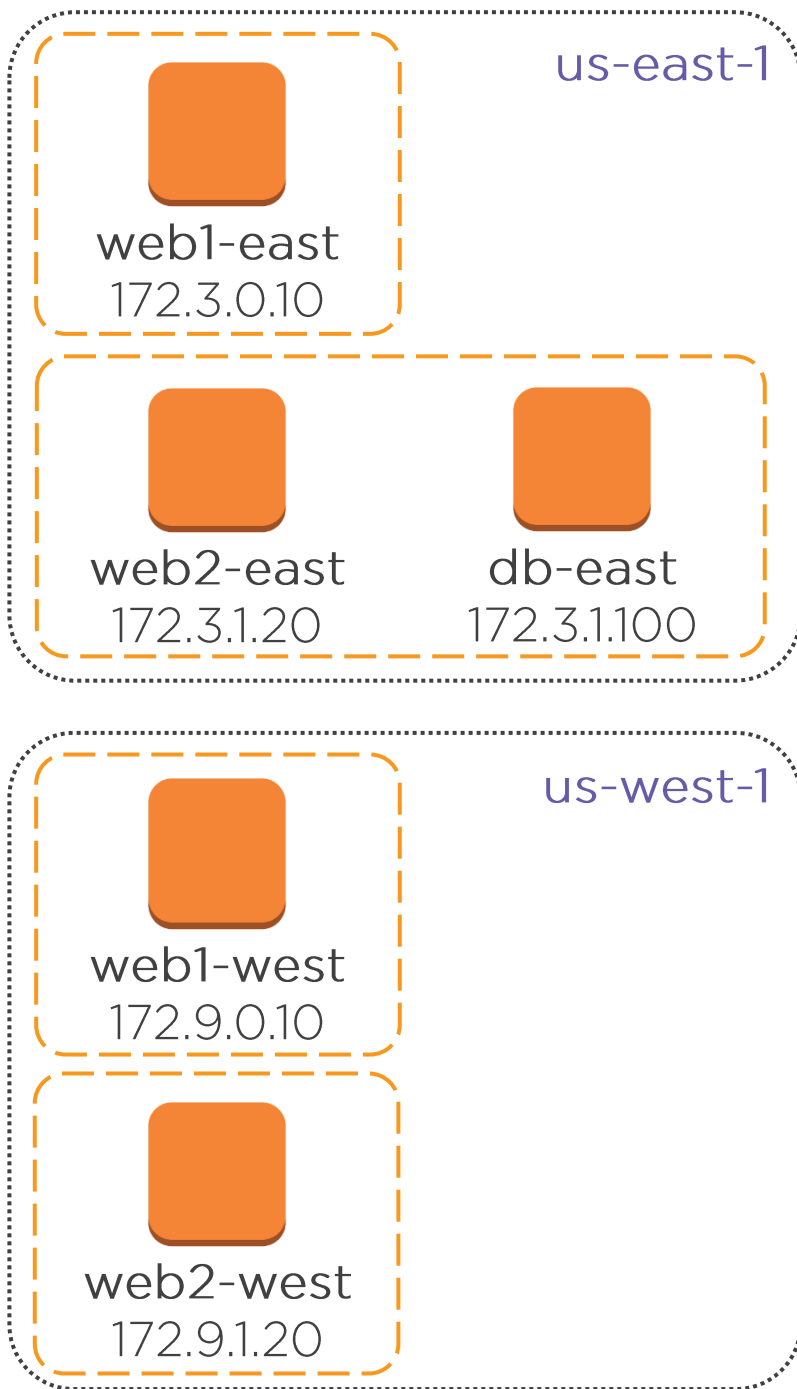# South Carolina (SC)

Creating Geolocation Records

benpiper.host		Public
Name	Policy	Target
www	Geolocation (USA)	web1-west
www	Geolocation (USA-SC)	web1-east
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

benpiper.host		Public
Name	Policy	Target
www	Geolocation (USA)	web1-west
www	Geolocation (USA-SC)	web1-east
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

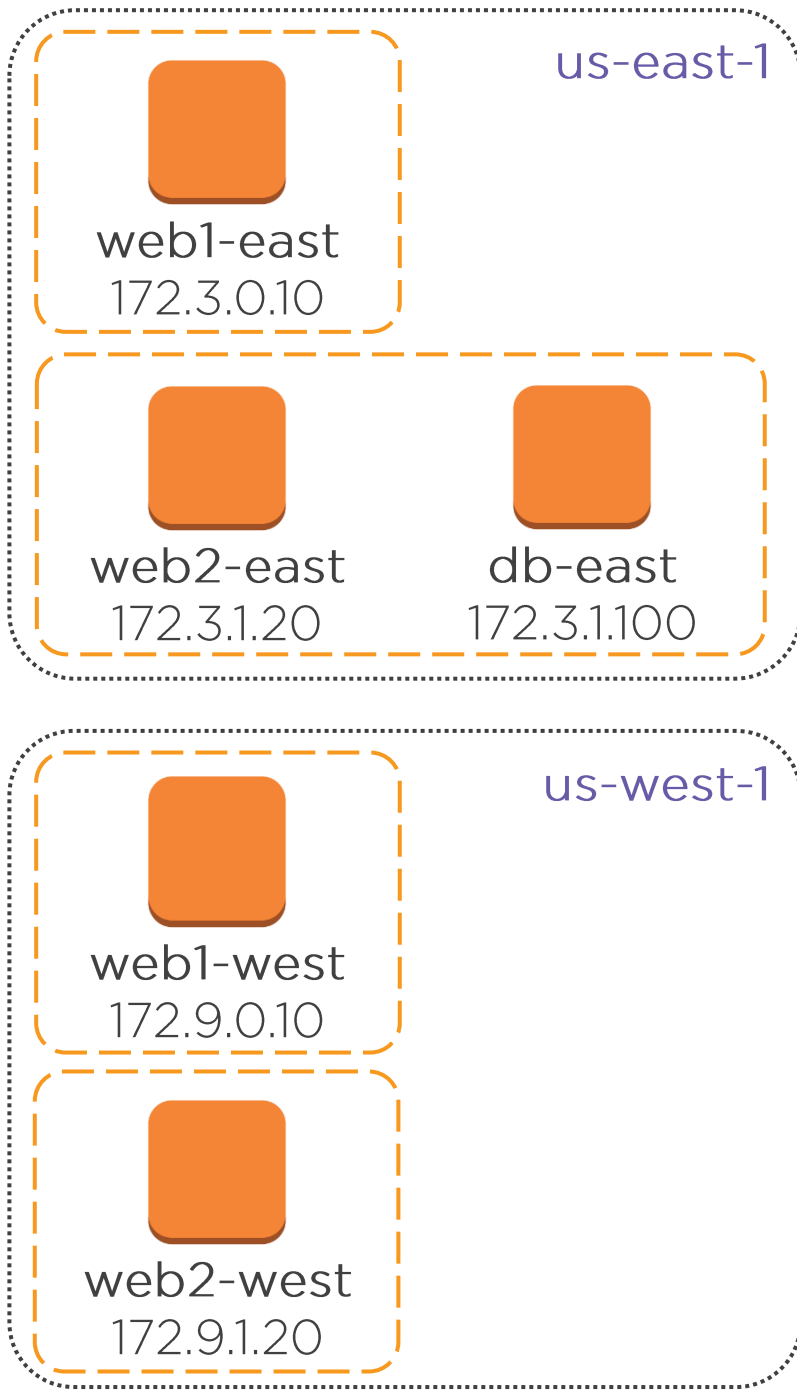| benpiper.host		Public
Name	Policy	Target
www	Geolocation (USA)	web1-west
www	Geolocation (USA-SC)	web1-east
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

Client

USA-SC

us-east-1

web1-east
172.3.0.10

web2-east
172.3.1.20

db-east
172.3.1.100

us-west-1

web1-west
172.9.0.10

web2-west
172.9.1.20

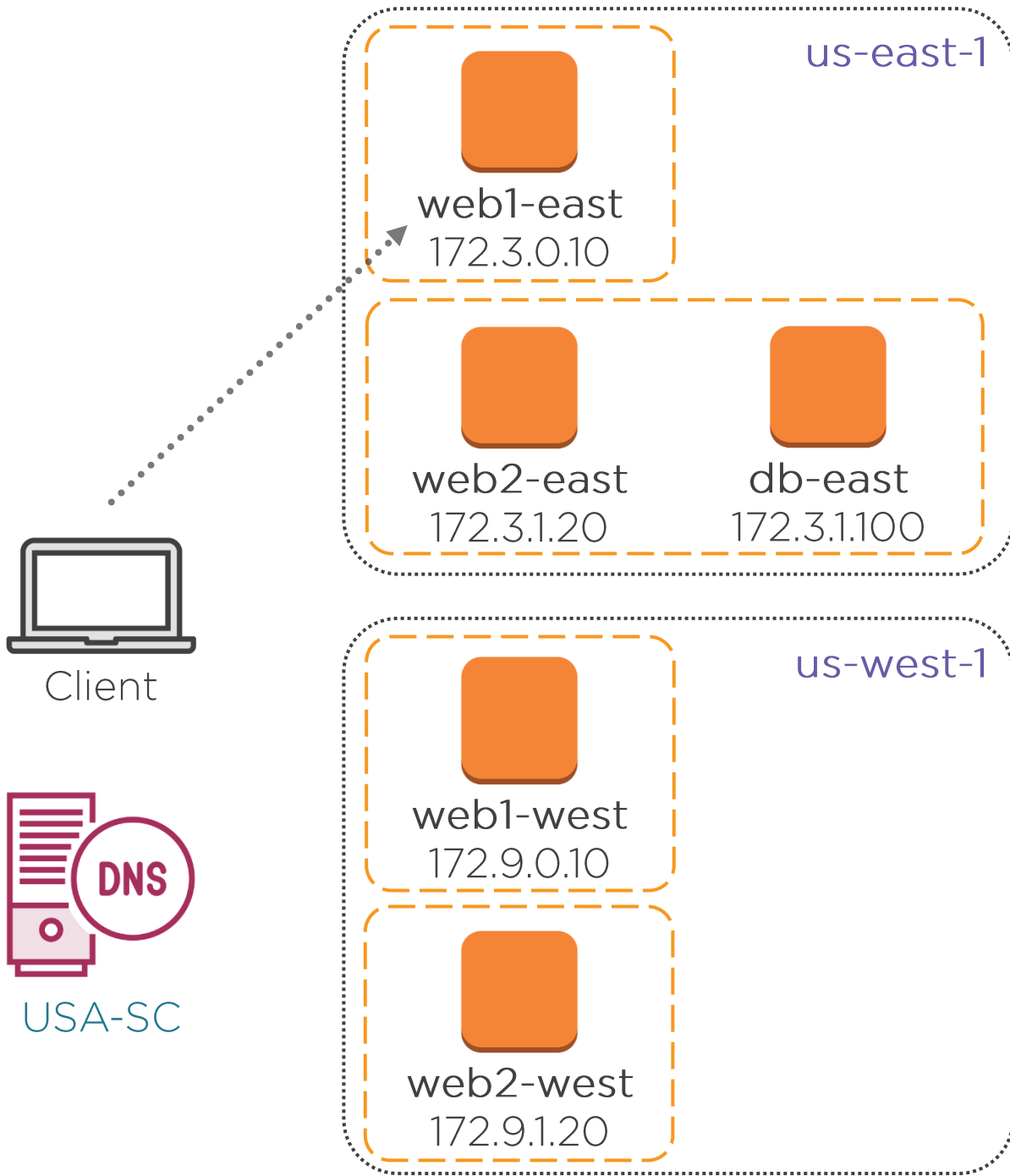| benpiper.host		Public
Name	Policy	Target
www	Geolocation (USA)	web1-west
www	Geolocation (USA-SC)	web1-east
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

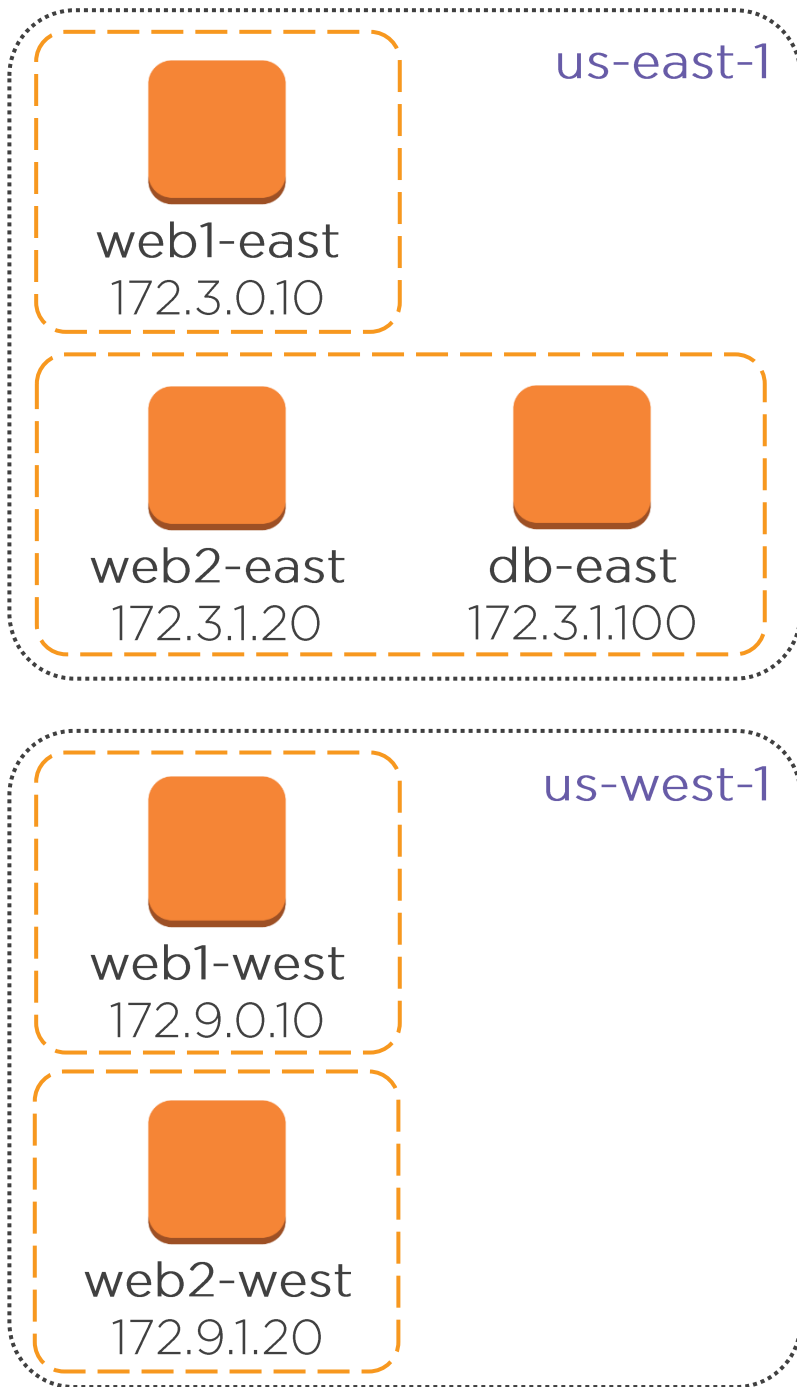| benpiper.host		Public
Name	Policy	Target
www	Geolocation (USA)	web1-west
www	Geolocation (USA-SC)	web1-east
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

us-east-1

web1-east
172.3.0.10

web2-east
172.3.1.20

db-east
172.3.1.100

us-west-1

web1-west
172.9.0.10

web2-west
172.9.1.20

Client

DNS

USA-VA

Close Doesn't Count!

us-east-1

web1-east
172.3.0.10

web2-east
172.3.1.20

db-east
172.3.1.100

us-west-1

web1-west
172.9.0.10

web2-west
172.9.1.20

Client

Germany

DNS

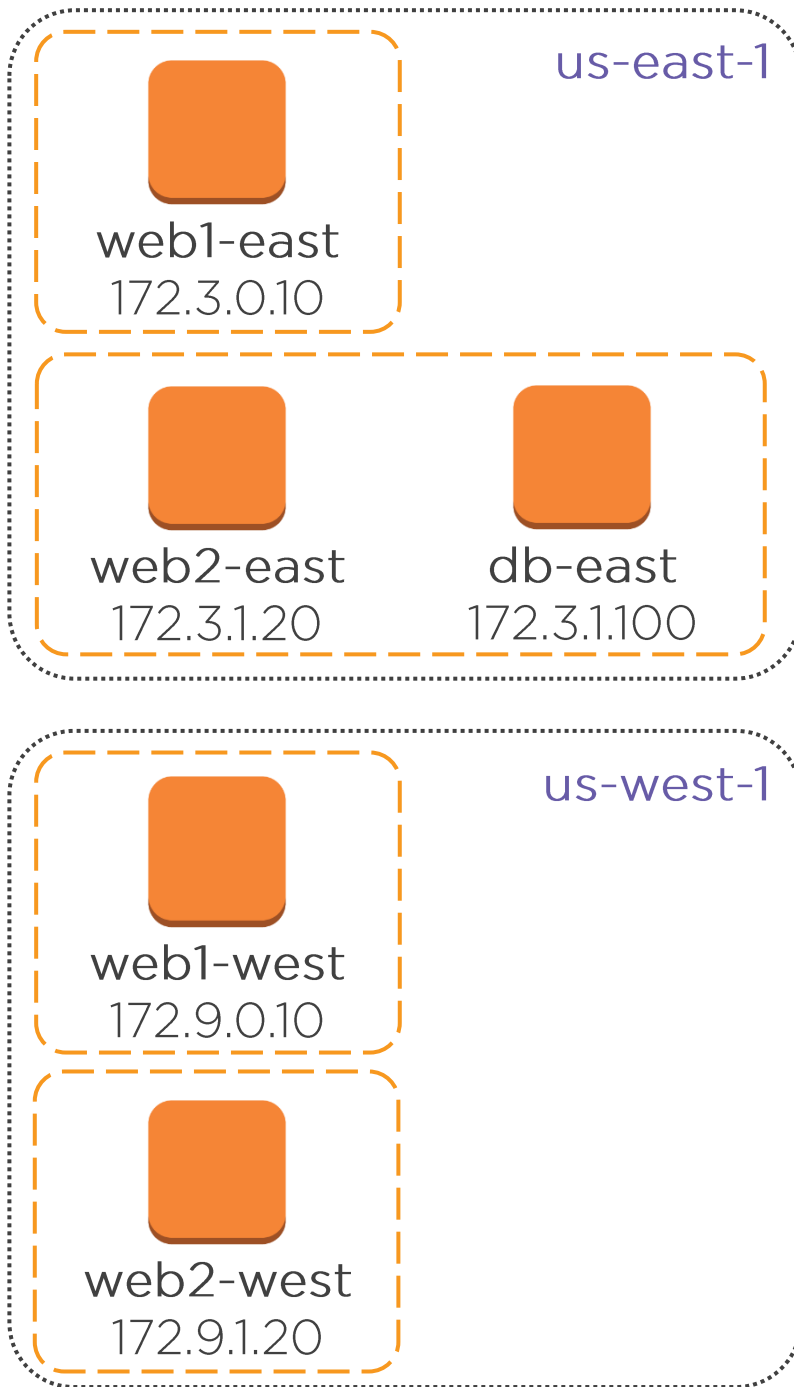| benpiper.host		Public
Name	Policy	Target
www	Geolocation (USA)	web1-west
www	Geolocation (USA-SC)	web1-east
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

us-east-1		
web1-east 172.3.0.10		
web2-east 172.3.1.20	db-east 172.3.1.100	

us-west-1	
web1-west 172.9.0.10	
web2-west 172.9.1.20	

Client

DNS

Germany

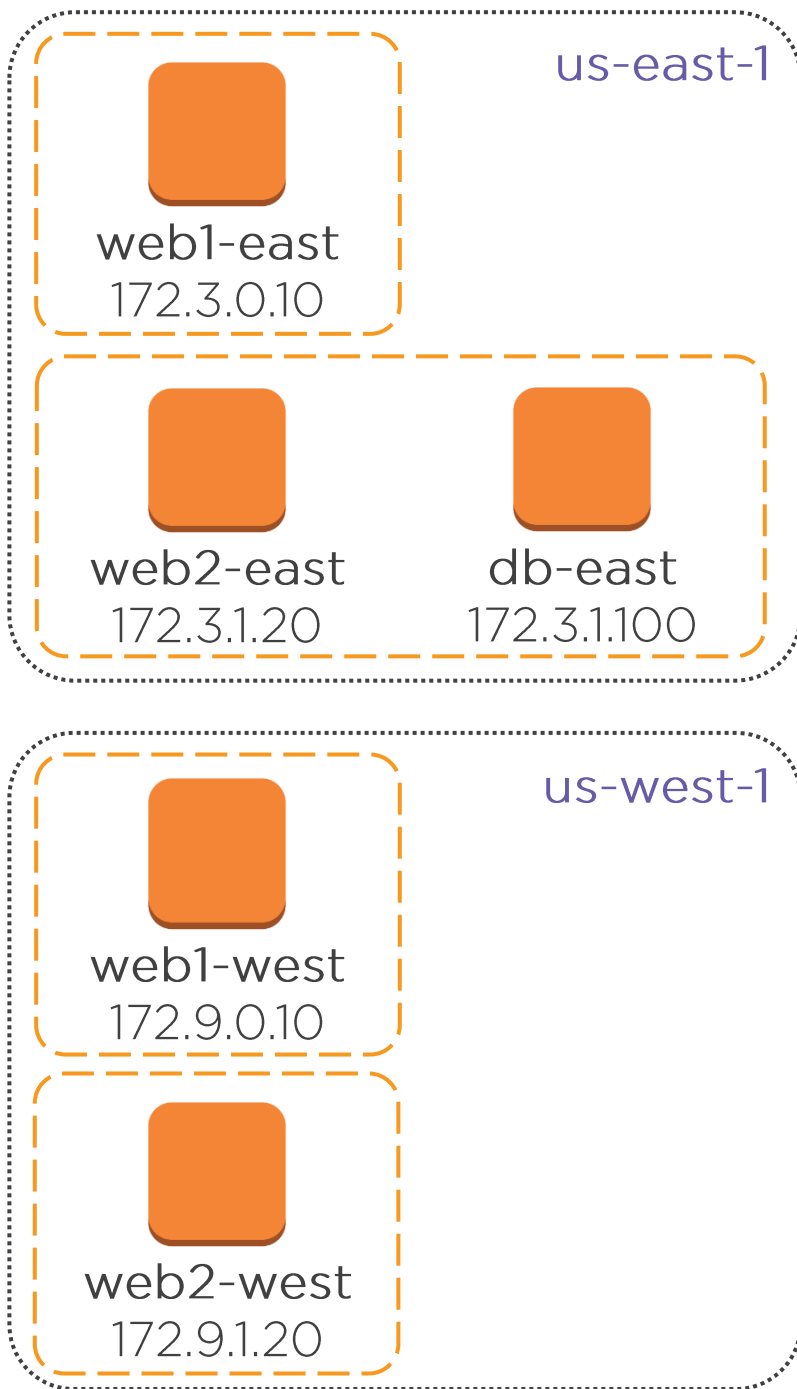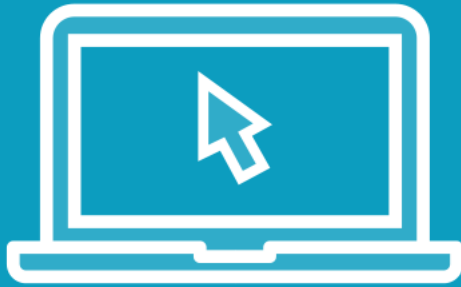| benpiper.host		Public
Name	Policy	Target
www	Geolocation (default)	web1-east
www	Geolocation (USA)	web1-west
www	Geolocation (USA-SC)	web1-east
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

Demo

Create geolocation records

Initiate queries from around the world

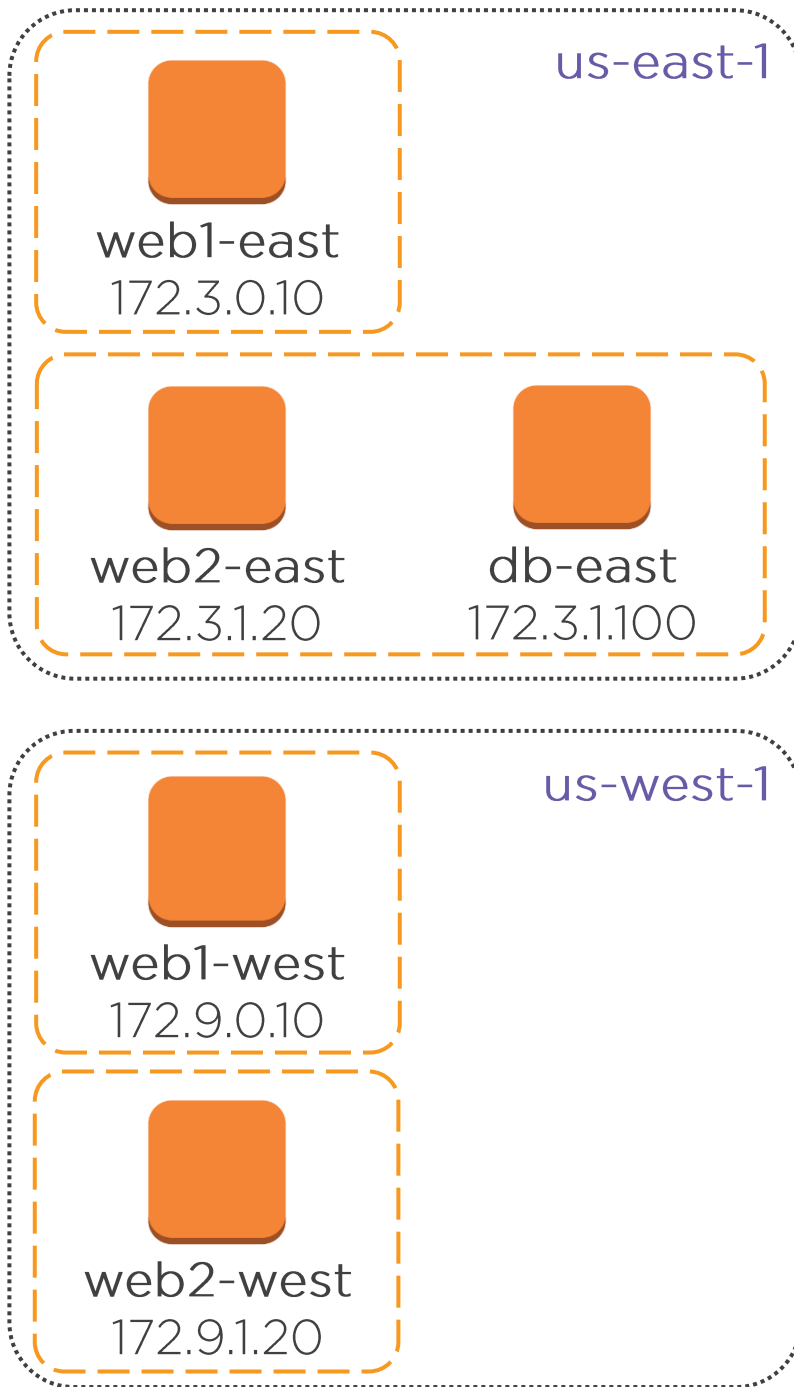# Creating Latency Records

Close Does Count!

benpiper.host		Public
Name	Policy	Target
www	Latency (us-east-1)	web1-east
www	Latency (us-west-1)	web1-west
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

Client

USA-SC

us-east-1

web1-east
172.3.0.10

web2-east
172.3.1.20

db-east
172.3.1.100

us-west-1

web1-west
172.9.0.10

web2-west
172.9.1.20

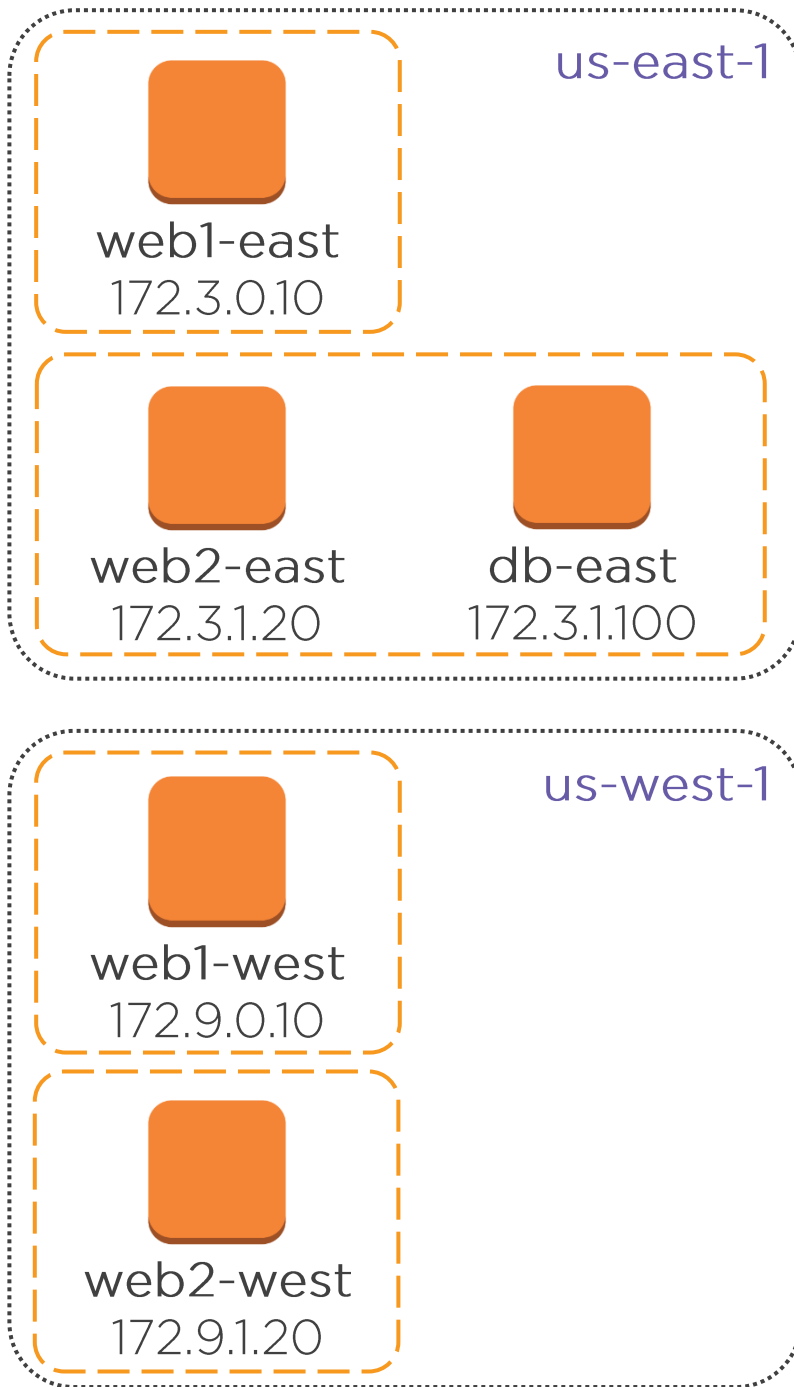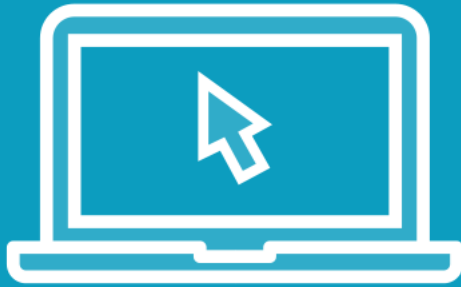| benpiper.host		Public
Name	Policy	Target
www	Latency (us-east-1)	web1-east
www	Latency (us-west-1)	web1-west
web1-east	Simple	52.206.88.55
web2-east	Simple	18.208.90.217
web1-west	Simple	54.219.0.218
web2-west	Simple	54.177.105.227

us-east-1

web1-east
172.3.0.10

web2-east
172.3.1.20

db-east
172.3.1.100

us-west-1

web1-west
172.9.0.10

web2-west
172.9.1.20

Client

DNS

USA-CA

Demo

Create latency records
- us-east-1
- us-west-1

Summary

Geolocation records route traffic based on the specific location of the query

- Remember to specify a default location!

- Close doesn't count!

Latency records route traffic based on the latency to an AWS region

- Network latency changes constantly

Coming Up Next

Traffic flow policies