Lab Setup



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https://benpiper.com



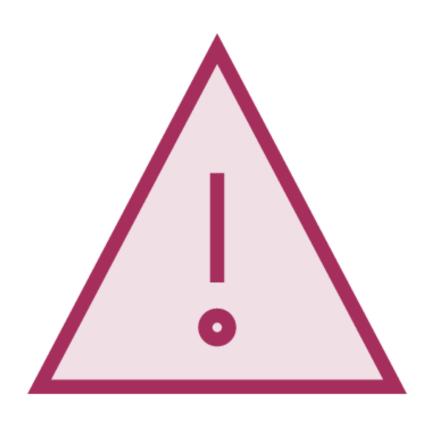
Choose a Domain Name to Use for the Lab

Existing domain name



New domain name



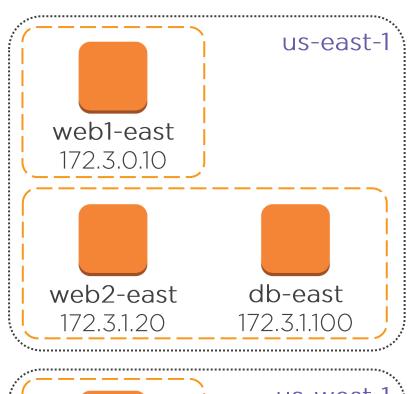


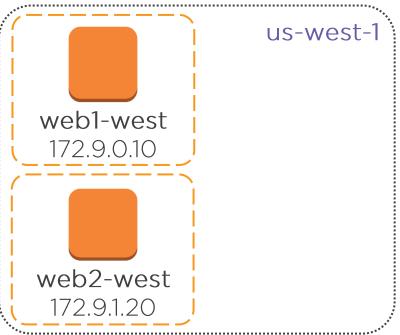
Don't use a domain name that's already being used for something important!

If in doubt, use a domain name designated for testing



Lab Scenario







Lab Setup Options



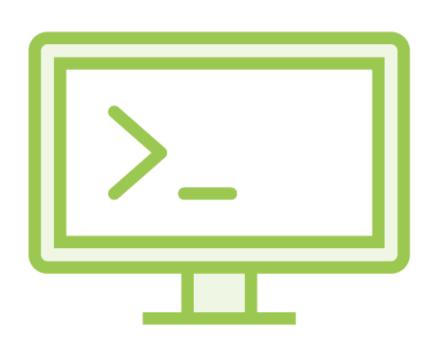
Manual



PowerShell script



Why Use PowerShell



Works on Windows, Linux, and Mac!

- github.com/PowerShell/PowerShell

Automated lab setup

Scripts provided to help you test your Route 53 configurations

Not all Route 53 features available in the web console



Manual Lab Setup



VPCs and Subnets

Region	VPC CIDR	Subnet Name	Subnet CIDR
us-east-1	1 172.3.0.0/16	r53-lab-1a	172.3.0.0/24
		r53-lab-1b	172.3.1.0/24
us-west-1	172.9.0.0/16	r53-lab-1a	172.9.0.0/24
		r53-lab-1b	172.9.1.0/24



VPC Configurations **Enable DNS hostnames**

Internet gateway: r53-lab-igw



Route Tables

Name: r53-lab-rt

- Associate with all subnets

Default route:

- IPv4: 0.0.0.0/0

- Target: r53-lab-igw



Security Group: r53-lab-sg

Direction	Protocol	Ports	Source
Inbound	TCP	80	Any
Inbound	TCP	22	Your IP



Instance AMIs

```
aws-elasticbeanstalk-amzn-2017.09.1.x86_64-ecs-hvm-2018011*
```

ami-48351d32 in the N. Virginia (us-east-1) region

ami-f7383a97 in the N. California (us-west-1) region

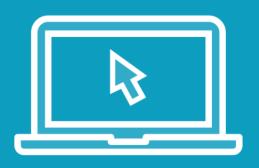


Instances

Region	Name	Subnet	IP address
us-east-1	web1-east	r53-lab-1a	172.3.0.10
	web2-east	r53-lab-1b	172.3.1.20
	db-east	r53-lab-1b	172.3.1.100
us-west-1	web1-west	r53-lab-1a	172.9.0.10
	web2-west	r53-lab-1a	172.9.1.20



Demo



Configuring PowerShell and the AWS Tools for PowerShell

github.com/benpiper/aws-powershell



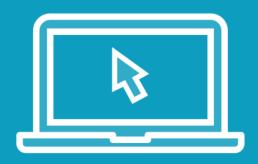
Demo



Customize and run the lab setup script



Demo



Configure the web server instances



Summary



PowerShell is strongly encouraged!

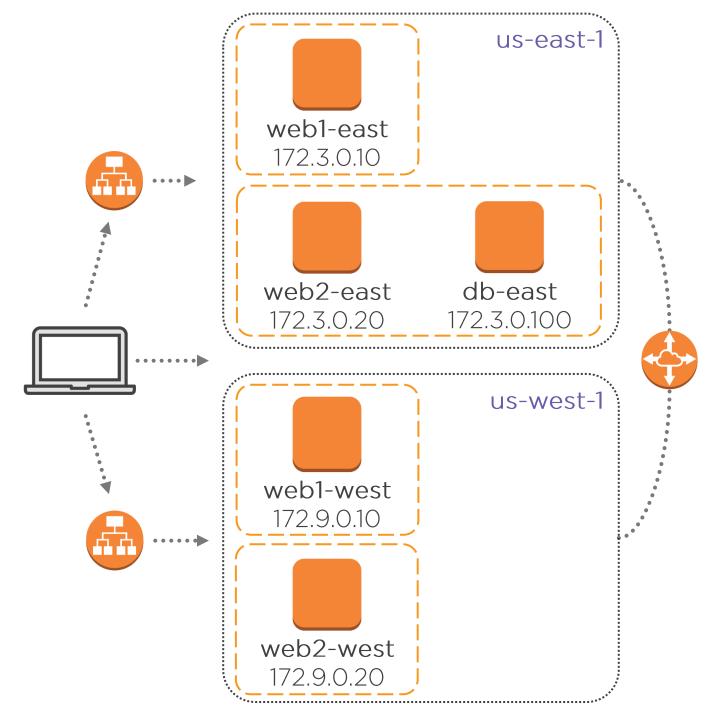


Coming Up Next



We'll start configuring Route 53!





benpiper.host		Public
Name	Policy	Target
web1-east	Simple	37.150.10.10
web1-west	Weighted	200.200.10.10
web1-west	Failover (primary)	37.150.10.10

benpiper.host		Private (us-west-1)
Name	Policy	Target
db	Simple	172.100.1.10
web1-west	Weighted	37.10.10.10

benpiper.host		Private (us-west-1)
Name	Policy	Target
db	Simple	172.100.1.10
web1-west	Weighted	37.10.10.10

