Creating Public Hosted Zones and Simple Records



Ben Piper
AWS CERTIFIED SOLUTIONS ARCHITECT
https://benpiper.com



Choose a Domain Name

Existing domain name



New domain name



Module Overview

Domain registration process

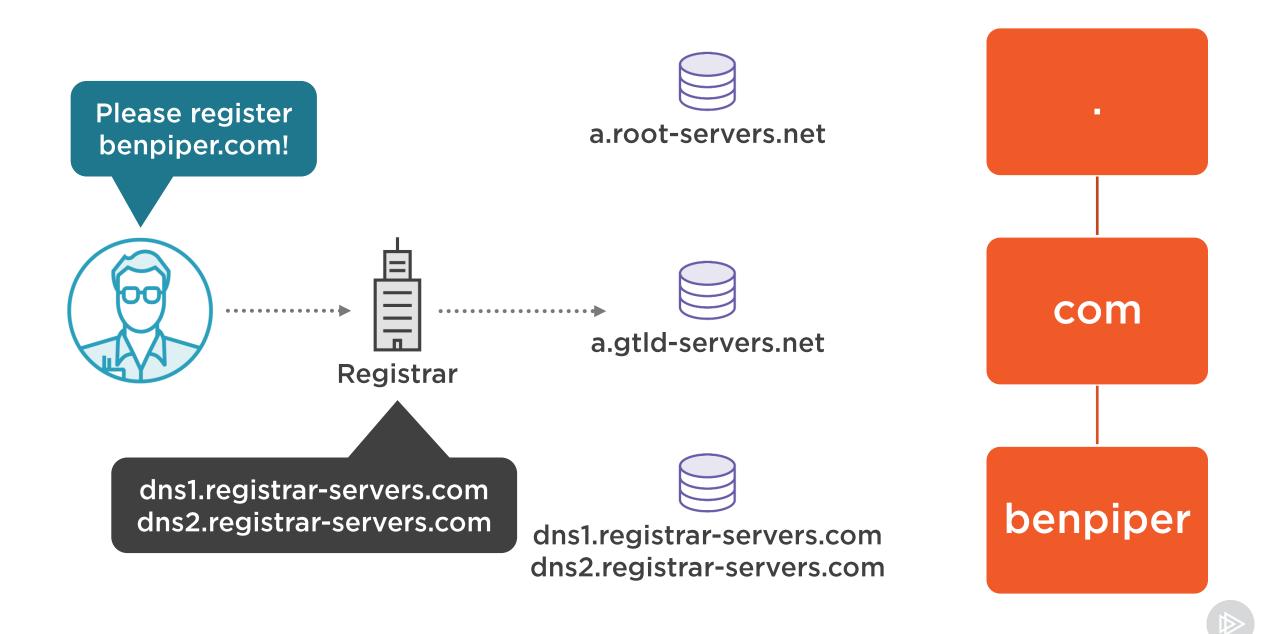
Using an existing domain name

Registering a new domain name



Understanding the Domain Registration Process





a.gtld-servers.net:

ORIGIN com.

benpiper.com. NS dns1.registrar-servers.com

benpiper.com. NS dns2.registrar-servers.com

dns1.registrar-servers.com:

ORIGIN benpiper.com.

benpiper.com. A 52.205.213.4

dns2.registrar-servers.com:

ORIGIN benpiper.com.

benpiper.com. A 52.205.213.4

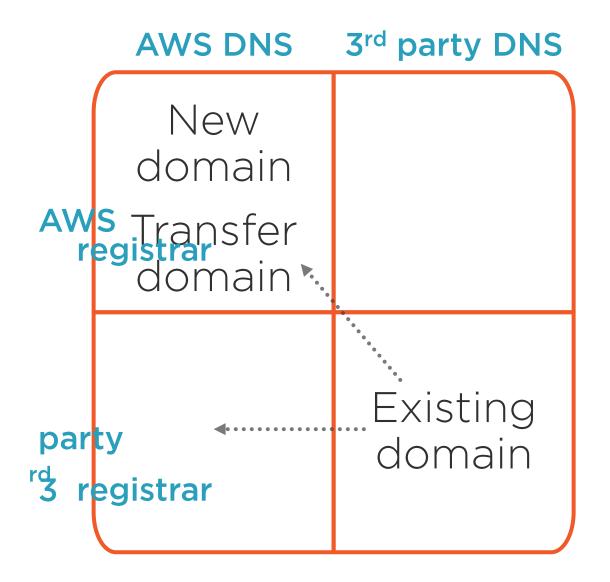


Domain registration prompts the top-level domain registry to create name server records pointing to your DNS servers

Registrar provides list of default name servers to the registry operator

We need to provide the registrar with Route 53 name servers





Using an Existing Domain Name



Getting Route 53 Name Servers

Create a public hosted zone

Create a reusable delegation set



You must use the name servers that AWS assigns





Create public hosted zones



Creating Reusable Delegation Sets





Create reusable delegation set

Create public hosted zone and associate with the reusable delegation set

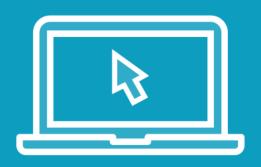
Open route53/reusable-delegationset.ps1





Update registrar with Route 53 name servers



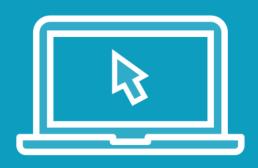


Find TTL of existing NS records



Changing the Negative Caching TTL





Create simple resource record
Change negative caching TTL



Registering a New Domain Name with Route 53



Registering a Domain Name with Route 53

Creates a public hosted zone

Updates the domain registry with Route 53 name servers





Domain name registration process using Route 53



Creating CNAME and Alias Records



web1.benpiper.com. A 52.205.213.4
www.benpiper.com. CNAME web1.benpiper.com.

Canonical Name Records





Create CNAME and alias records





Point www.benpiper.host and benpiper.host to web2-east

Chain resource records together





Create wildcard record

*.benpiper.host ---> www.benpiper.host

hello.benpiper.host ---> www.benpiper.host



Summary



Domain registration process Using an existing domain name Creating a public hosted zone Creating a reusable delegation set Updating registrar with name servers Registering domain name with Route 53 **Creating resource records** Chaining resource records



Coming Up Next



Health checks and failover records

