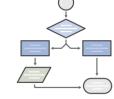
Area Code Finder



Requirement



Deliverable Screenshot



Solution Architect.





What does "Area Code Finder" do?

User Scenario

How many times you're curious about where is the strange phone number called from? You may want to know. Area code finder will help you search location of a provided area code. I collected nearly 400 area codes and locations in North America, and loaded them into my backend Aurora database.

Please try it now https://tri-alb-clb-https-1496351026.us-west-2.elb.amazonaws.com:3001

Using AWS CloudFormation implements automate full stack, self contained, automatically deployment on AWS



Response to Trinimbus Assignment



Requirement



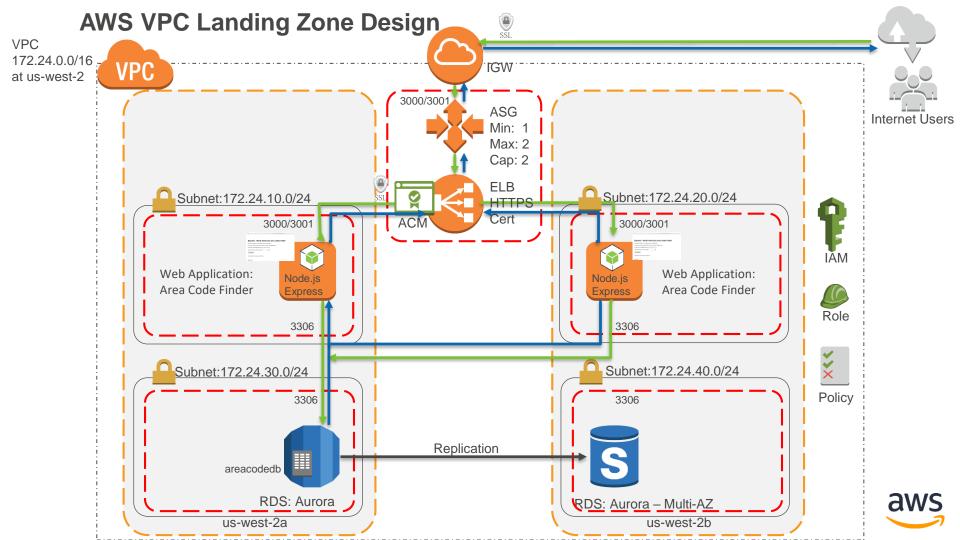
Deliverable Screenshot



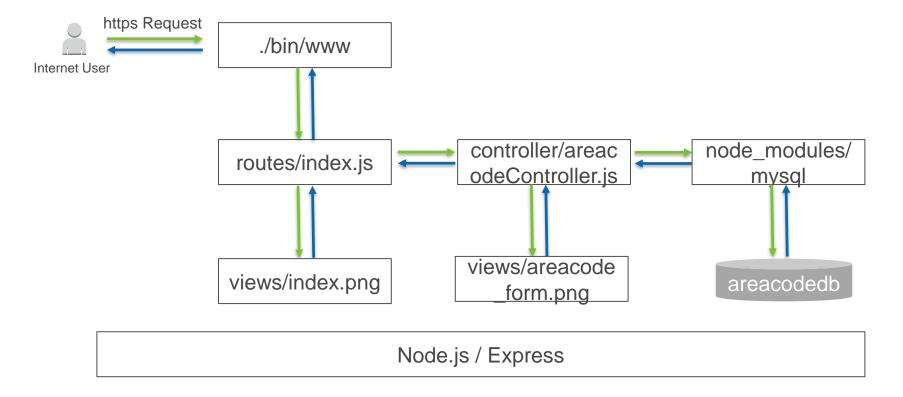
Solution Architect.







Web Application Architecture



The Web Application is created from scratch based on Node.js and Express



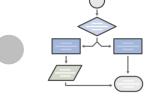
Response to Trinimbus Assignment



Requirement



Deliverable Screenshot



Solution Architect.

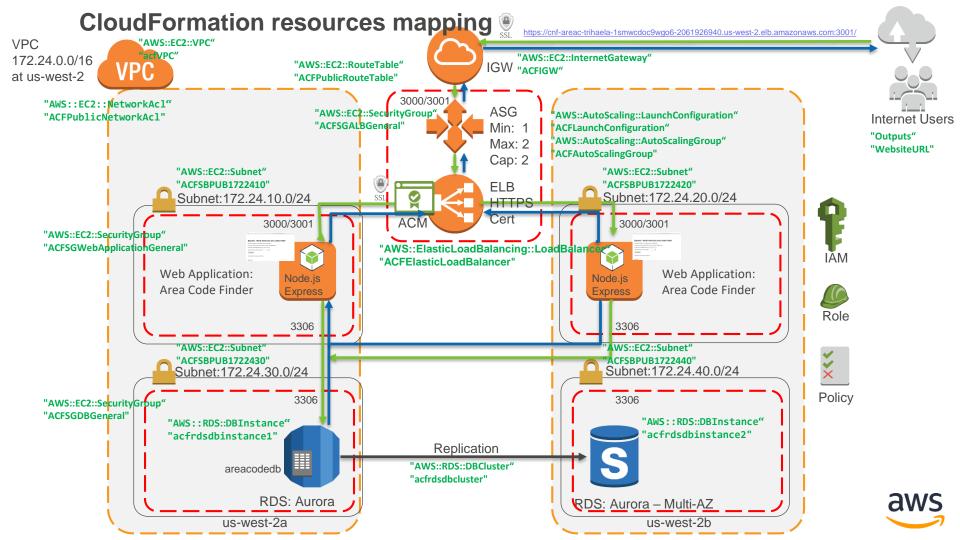




CloudFormation Deployment

- Full web application stack is auto-deployed via CloudFormation, by providing only 8 parameters and 1 click to implement CloudFormation
- Leverage intrinsic functions to avoid hard coding
- ELB and ASG are automatically configured in CloudFormation
- RDS Aurora multi-AZs cluster/instance are automatically created by CloudFormation. Table and data are created and loaded automatically by User Data + Python scripts.





Leverage cfn-init, cfn-signal and user data

- Automatically install packages like httpd
- Automatically start service

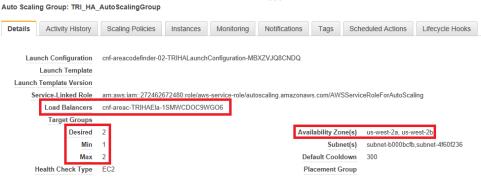


ELB and ASG are automatically configured via CloudFormation

```
"Properties": {
"SecurityGroups" : [{ "Ref" : "ACFSGALBGeneral" }],
"Scheme": "internet-facing",
"Subnets" : [{ "Ref" : "ACFSBPUB1722410" }, { "Ref" : "ACFSBPUB1722420" }],
"CrossZone" : "true",
"Listeners": [
    "InstancePort": { "Ref" : "ACFHTTPSPORT" },
    "InstanceProtocol": "HTTPS",
    "LoadBalancerPort": { "Ref" : "ACFHTTPSPORT" },
    "Protocol": "HTTPS",
    "SSLCertificateId" : { "Ref" : "ACFSSLCertificationID" }
"HealthCheck" : {
    "Target" : {
     "Fn::Join" : [ "", [ "HTTPS:", { "Ref" : "ACFHTTPSPORT" }, "/" ] ]
    "HealthyThreshold" : "10",
    "UnhealthyThreshold": "5",
    "Interval" : "30",
    "Timeout" : "5"
```

```
 Load Balancer Protocol
 Load Balancer Port
 Instance Protocol
 Instance Port

 HTTPS
 3001
 HTTPS
 3001
```





Response to Trinimbus Assignment

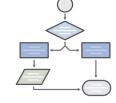


Requirement





Deliverable Screenshot



Solution Architect.





Deliverable Screenshot (Web Application)

