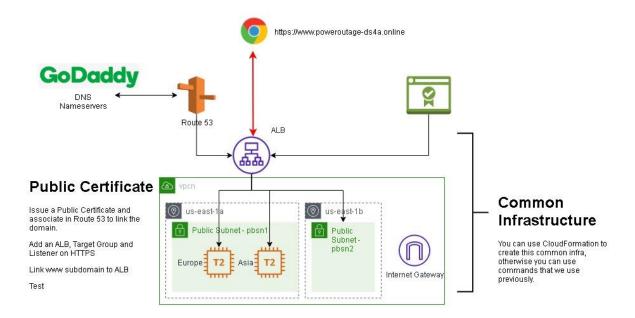
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General Diagram



Reuse the Lab 10a to deploy the common infrastructure (VPC, Instances, ALB, Link Registrar to Route 53), then issue a TLS certificate to link to ALB and finally, create a CNAME record on Route 53 to ALB.

The common infrastructure is done using CloudFormation, and the remainder instructions are done using Web.

Prerequisites

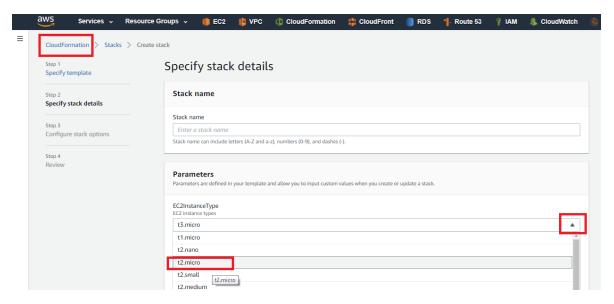
Labs1c1 have to be done and the context for Administrative user have to activated on Command Line Session.

To acquire knowledge about: DNS Concepts, Route 53 Hosted Zones, and Simple and Geolocation Routing Policies.

Labs10: Lab Prerequisites (Option 1: Using Cloudformation)

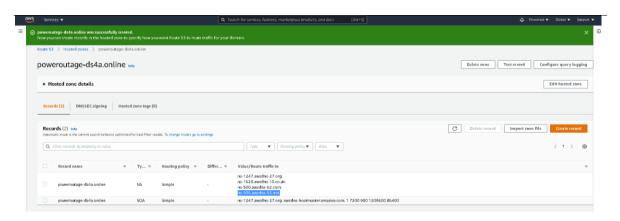
You can use the instructions of previous laboratory (Labs10c1) to create common infrastructure, with the recommendation to use t2.micro instances to use free tier for this lab.

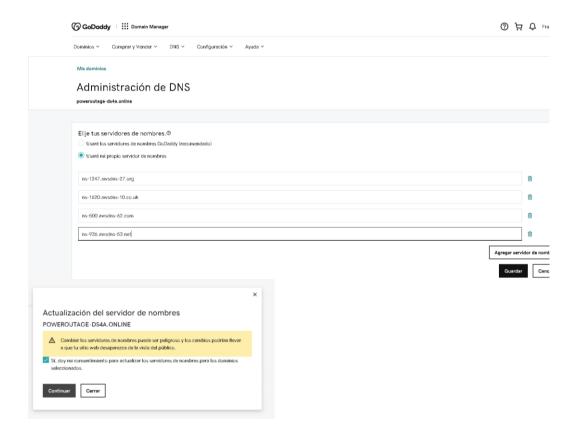
There are subtle differences between the Cloudformation template from Labs10c1 and this lab (Labs10c2) such as: Empty subnet and ALB with public DNS.



In addition, you have to create the Registrar (GoDaddy) association to hosted zone (NS Record).

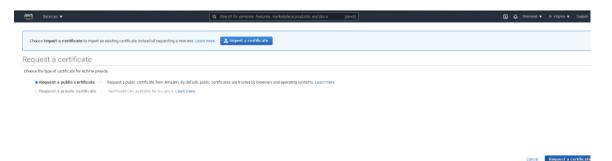
On Route 53, you create a Hosted Zone with the name of the domain (poweroutage-ds4a.online) and you every NS Record to put on the GoDaddy DNS Administration.



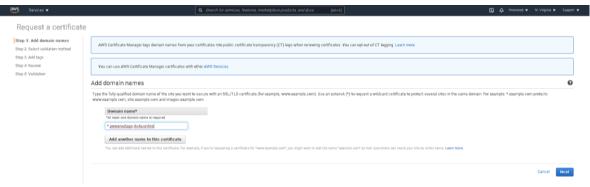


Labs10c2: Issue a Public Certificate using ACM

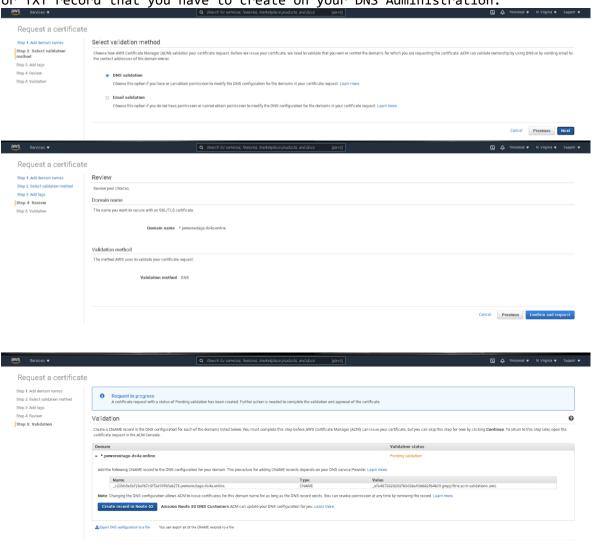
Goes to AWS Certificate Manager and request a public certificate:



You must write the domain, you can use wildcard (*) of your domain, even you can create multiples domains on the same certificate.



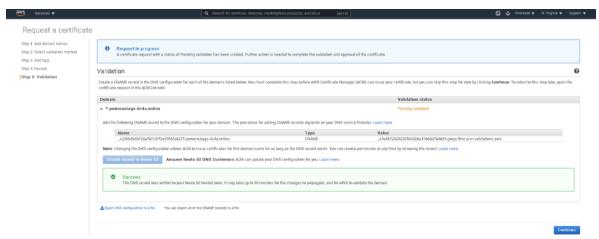
You have to show the ownership of that domain, therefore AWS create a CNAME or TXT record that you have to create on your DNS Administration.



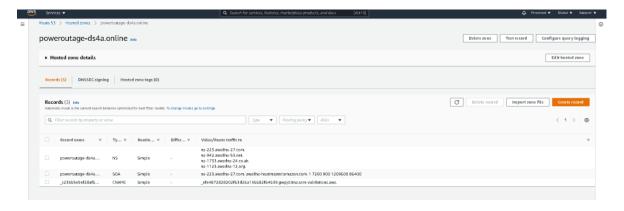
If you administer using Route 53 on the same account, you can use the "Create Record in Route 53" otherwise, you have to create the record manually and wait that AWS reckon that CNAME record. Aws change the status

automatically from Pending to Issued

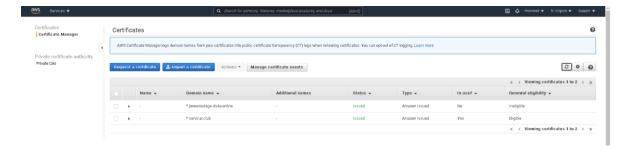




You can test on Route 53, if the record was created.



Again on ACM, you can check the Status changed to Issued.



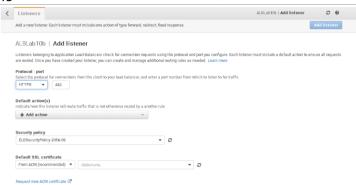
Labs10c2: Create a HTTPS Listener

On the ALB created by Cloudformation, you have to create a new listener on Port 443 (HTTPS) and associated with new certificate.

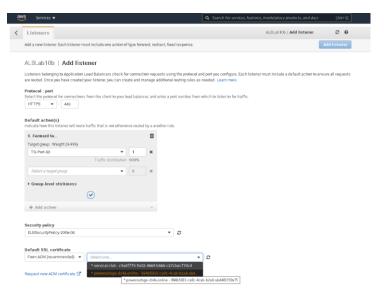
You must select the ALB, click on Add Listener of Listeners Tab.



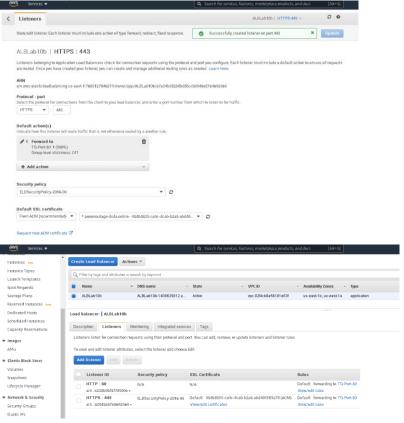
Then you choose as protocol HTTPS and AWS automatically mofidy the port to 443



On the action, you choose the Target Group created from Cloudformation and on Default SSL certificate, you choose the last created certification (poweroutage-ds4a.online).

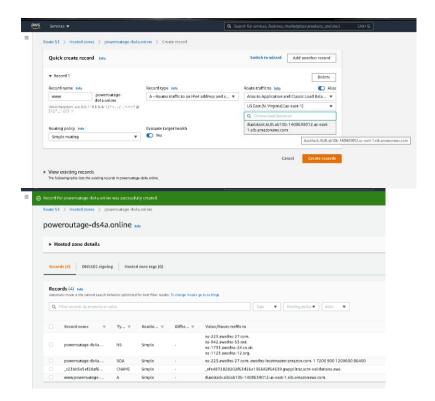


Finally, you have to check the configuration and follow Next options.

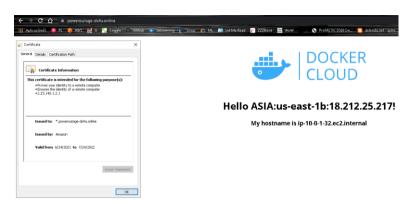


Labs10c3: Create an alias with the name of the Domain on Route 53

Create the Route 53 Record Alias to your ALB



Tested using https://www.poweroutage-ds4a.online or the name of the record created previously.



Clean Resources

Delete using Cloudformation

Delete manually the certificates.