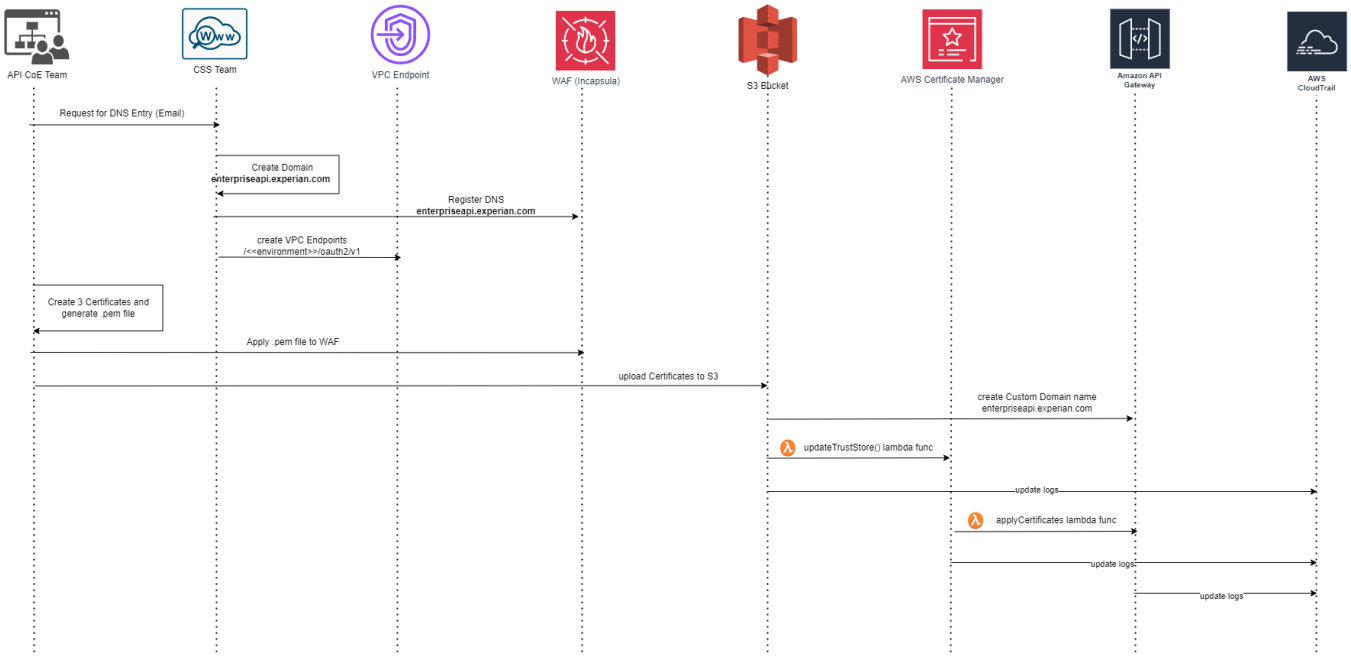
WF-03: Applying Certificates to AWS Certificates Manager and AWS Enterprise Gateway

Components Diagram

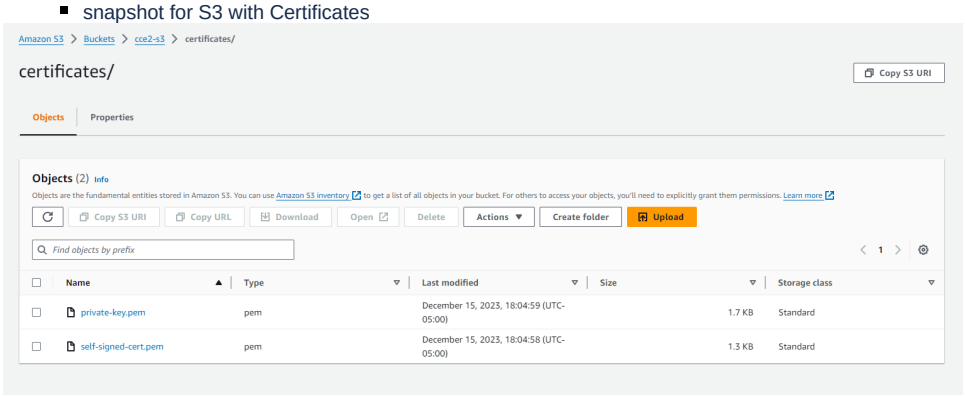


Flow Steps

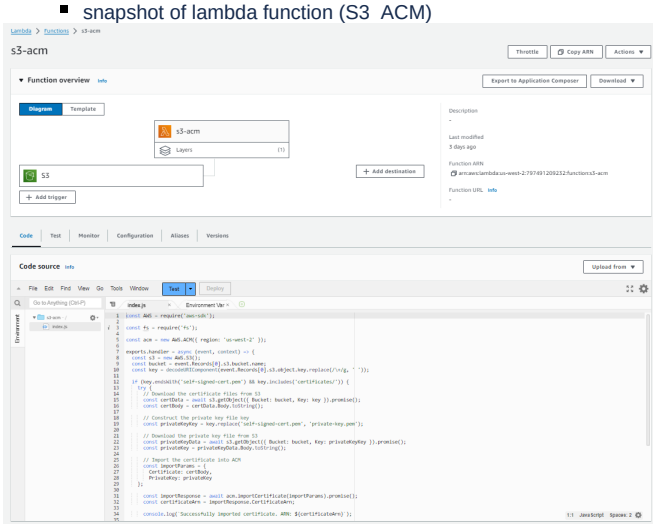
- Pre-requisites
  - AWS CLI installed
  - Terraform Installed
  - All PATH variables should be set
  - The location of the terraform script could be found here Browse EITS APICoE Development / EITS-EnterpriseAPIGateway-AWS - Bitbucket Global (experian.local)

- Steps
  - $cd /sandbox
    - the 'main.tf' is under this path
  - $ls
    - (check all the terraform files (main.tf, variables.tf and variables.tfvars) available
  - $terrraform init
    - (it will instantiate the main.tf file). This will install all the terraform modules. The message returned is "Successfully Initialized"
  - $terraform validate
    - (check for the validity of the code). We should receive the message "Validation has been successful
  - $terraform apply --var-file=variables.tfvars
    - (applies to AWS and creates the resources). The resources defined under EITS-EnterpriseAPIGateway-AWS/terraform/sandbox/variables.tf, would be created
  - The information on the infrastructure 'values' is being looked up from EITS-EnterpriseAPIGateway-AWS/terraform/sandbox/variables.tfvars. If the same infrastructure provisioning needs to be done on a development environment then the following changes needs to be done
    - check-out "EITS-EnterpriseAPIGateway-AWS/terraform/
    - Copy all files from
    - check-out "EITS-EnterpriseAPIGateway-AWS/terraform/sandbox/variables.tfvars" to "EITS-EnterpriseAPIGateway-AWS/terraform/stagomg/"
    - Modify "EITS-EnterpriseAPIGateway-AWS/terraform/sandbox/variables.tfvars" and change the relevant values under variables to reflect development environment parameters
    - Check-in the files
    - Raise a pull request (PR). The notification would be sent to 'Cleison and Jesus B' for review
    - Based on the approval, Either of the reviewers would be merging the code to 'develop' branch
    - Once the develop branch is updated, Jenkins pipeline would be kicked in to invoke the Terraform script (This item is currently not started) and hence we need to follow the manual process defined earlier.

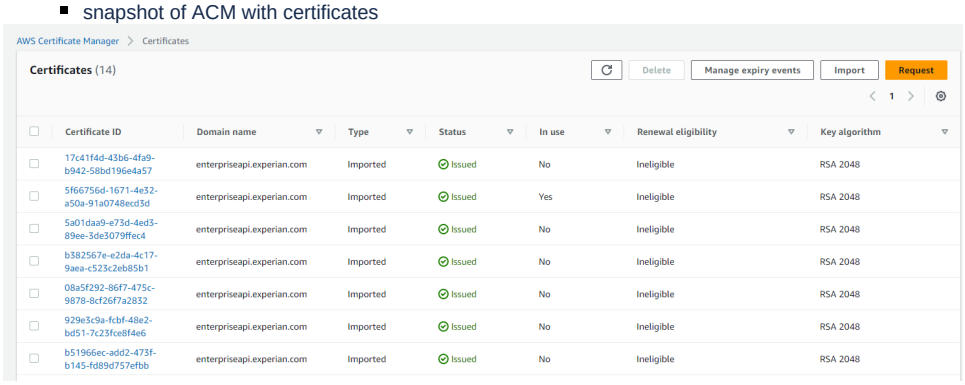
- When the terraform file is executed successfully we should be able to see the certificates applied to AWS Certificates Manager (ACM) and AWS API GW
  - snapshot for S3 with Certificates



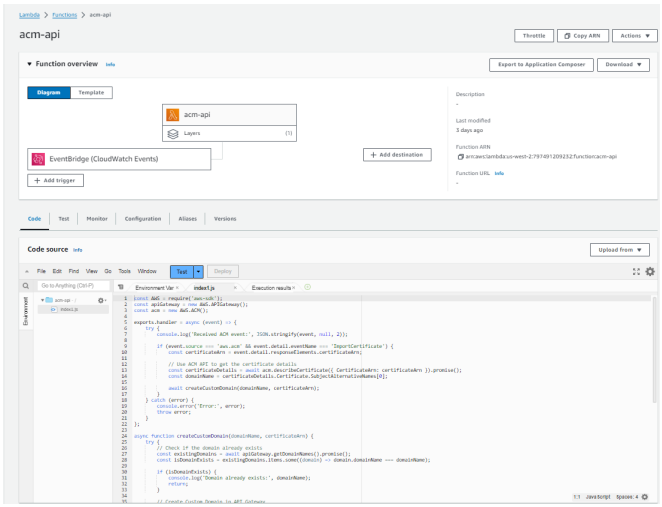
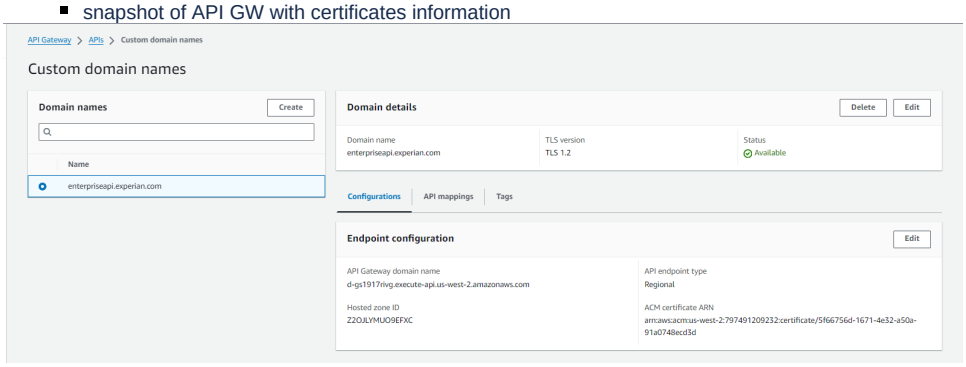
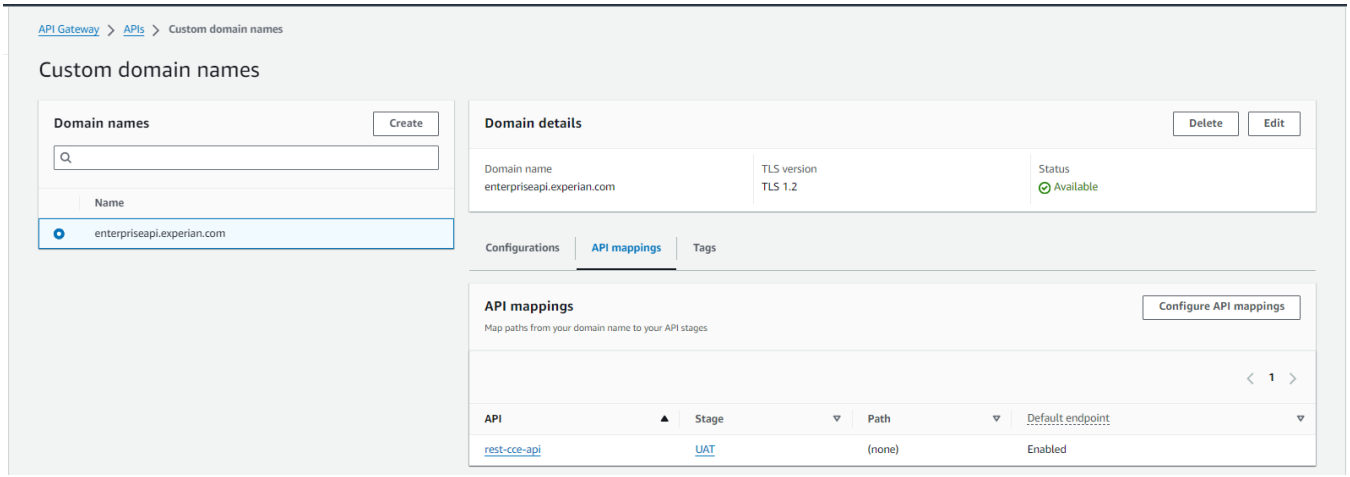
  - snapshot of lambda function (S3 ACM)



  - snapshot of ACM with certificates



  - snapshot of lambda function (ACM API GW)



- snapshot of API GW with certificates information