# DevOps Kitchen Workshop

## S3 Bucket -  Lifecycle

*#day_three -  File transition to storage classes*

ForgTech company wanna test your ability to type down a clean code by Deploying the structure of resources. This will help you to build a good reputation.

ForgTech is required to build an S3 Bucket and configure file transition to multiple storage classes for archiving and low-cost purposes.

The S3 requires to have directories as follows:

1. /log
2. /outgoing
3. /incoming

and file transition must match the following rules:

- Transition all files under /log to infrequent access (i.e. Standard-IA) 30 consecutive days after creation time.
- Transition all files under /log to Archive access (i.e. Glacier) 90 consecutive days after creation time.
- Transition all files under /log to Deep Archive access (i.e. Glacier Deep Archive) 180 consecutive days after creation time.
- Remove all files under /log 365 consecutive days after creation time.
- Transition all files under /outgoing with tag "notDeepArchive" to infrequent access (i.e. Standard-IA) 30 consecutive days after creation time.
- Transition all files under /outgoing to Archive access (i.e. Glacier) with the tag "notDeepArchive" 90 consecutive days after creation time.
- Transition all files under /incoming with size between 1MB to 1G to infrequent access (i.e. Standard-IA) 30 consecutive days after creation time.
- Transition all files under /incoming with size between 1MB to 1G to Archive access (i.e. Glacier) 90 consecutive days after creation time.

Use IaC Terraform to build all resources and consider the below requirements specifications. and ensuring that you can destroy the S3 *(i.e. using terraform destroy command)* even if the bucket is not empty.

1. Resources must be created at the us-east-1 region.
2. Resources must have tags as below:
    a. Key: "Environment", Value: "terraformChamps"
    b. Key: "Owner", Value: <"Your_first_name">
3. Preferd to use variables

## Code Sample:

- [Day Two sample/Blog](Day Two sample/Blog)

- Day Two sample/video
- Day Two sample/Code
- Day Two sample/Storage Classes

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