## Setting up CDK

- ->first install node.js,then npm
- ->After installing Node.js, install the AWS CDK Toolkit(npm install -g aws-cdk)
- ->npm install -g typescript

## **Creating a project**

- ->mkdir newcdk
- ->cd newcdk
- ->cdk init app --language typescript

#### Commands

cdk list(ls)	Lists the stacks in the app
cdk synthesize (synth)	Synthesizes and prints the CloudFormation template for one or more specified stacks
cdk bootstrap	Deploys the CDK Toolkit staging stack; see Bootstrapping
cdk deploy	Deploys one or more specified stacks
cdk destroy	Destroys one or more specified stacks
cdk diff	Compares the specified stack and its dependencies with the deployed stacks

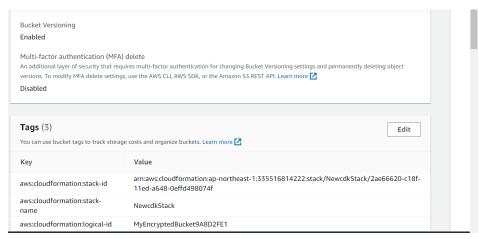
# Create a CDK code using TS to deploy an S3 Bucket with versioning, Encryption enabled (KMS)

->created a new stack named -NewcdkStack on starting point of CDK, newcdk.ts.

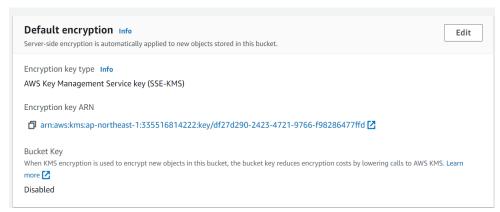
```
const app = new cdk.App();
new NewcdkStack(app, 'NewcdkStack', {});
```

- -> then cdk is to check the stack names
  PS C:\Users\Rraks\try1\newcdk> cdk is
  NewcdkStack
- -> then on the stack-newcdk-stack.ts- created a bucket- with bucketname-yurnkiyu787, With versioning enabled, with kms encryption enabled, with lifecycyle rules-rules for Infrequent Access transition after 30 days and Glacier after 90 Days.

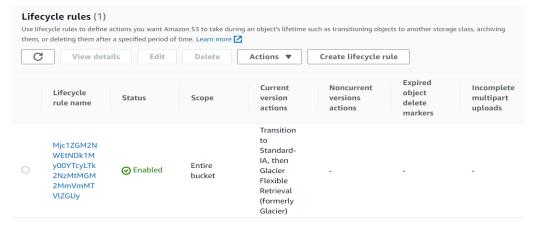
### -> then cdk deploy NewcdkStack



Versioning has been enabled on the bucket



Encryption has been enabled



Lifecycle rules has been enabled