SAM   
It is an extension to Cloud formation – used specifically to define serverless applications.  
  
It gives you a simplified syntax for defining these serverless resources.  
Could be APIs, Lambda functions, Dynamo Db tables etc.  
  
It also has its own command line interface called the SAM CLI.  
  
We use the SAM cli to package the deployment code, upload it to S3, and deploy your serverless application using cloud formation.  
  
1. Command in SAM cli.

SAM Package :  
It creates a zip file of your code and dependencies and uploads it to Amazon S3.  
It outputs a SAM compatible template.  
  
Example :  
sam package \  
 --template-file ./mytemplate.yml \  
 --output-template-file sam-template.yml \  
 --s3-bucket s3bucketname  
  
SAM Deploy.  
This takes input the SAM template created above.  
We mention the name of the cloud formation stack.  
capabilities parameter : This enables cloud formation to create an iam role to allow the function to execute.  
  
sam deploy \  
 --template-file sam-template.yml \  
 --stack-name mystack \  
 --capabilities CAPABILITY\_IAM  
  
2. CLOUD FORMATION AND SAM LAB.

Here we will deploy a lambda function using cloud formation and SAM.  
  
2.1   
Install the SAM cli.