Downgrade and Upgrade Instances

1. **Go to Policy and click on create policy ,click on create your own policy**
2. **Give policy name ModifyEC@InstanceType**
3. **copy below code in Policy Document**
4.

```
{
        "Version": "2012-10-17",
        "Statement": [
                {
"Effect": "Allow",
"Action": [
"ec2:ModifyInstanceAttribute",
"ec2.StartInstances",
"ec2:StopInstances",
"ec2:DescribeInstances"
    ],
"Resource": "*"
}


]
}
```

5. Go to Role ,Click on create role > click AWS service > Click on Lambda > click on Next permissions > search created policy ModifyEC@InstanceType and attach it.

6. Click on Next: Review > Give Role name (ModifyEC@InstanceType) > Click on Create role .

7. Go to lambda > Click on Create Function > Select Auther from scratch
8. Type Function name >ModifyEC2InstanceType>Select Runtime (Node.js 6.10)>Choose an existing role > Seleect that role (ModifyEC2InstanceTypes. > Click on create function

9. Go to function code and replace the code with given below code

```javascript
const AWS = require('aws-sdk');

exports.handler = (event, context, callback) => {
    const { instanceId, instanceRegion, instanceType } = event;

    const ec2 = new AWS.EC2({ region: instanceRegion });

    Promise.resolve()
        .then(() => ec2.stopInstances({ InstanceIds: [instanceId] }).promise())
        .then(() => ec2.waitFor('instanceStopped', { InstanceIds: [instanceId] }).promise())
        .then(() => ec2.modifyInstanceAttribute({InstanceId: instanceId, InstanceType: { Value: instanceType } }).promise())
        .then(() => ec2.startInstances({ InstanceIds: [instanceId] }).promise())
        .then(() => callback(null, `Successfully modified ${event.instanceId} to ${event.instanceType}`))
        .catch(err => callback(err));
};
```

10. Configure test event > give new test name > override the given below code as edit as per your need'

```json
{
  "instanceRegion": "us-east-1",
  "instanceId": "i-07f3c38290614fb04",
  "instanceType": "t2.micro"
}
```

11. Test it.