**Domain: Compute Services**

**Topic: EC2**

**Task: Launch EC2 instance**

**Problem to Be Solved**

*Learn how to launch EC2 instances with required parameters*

## Explanation of the Solution

* [Setup pre-requirements](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/get-set-up-for-amazon-ec2.html)
* [Instance launch](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html)
* [Terminate instance](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/terminating-instances.html)

## Implementation Details

*Prerequisites:*

* *Create ssh-key*
* *Create security group to allow access to port 22 from your ip address (see the explanation above)*

*Launch instance:*

1. *From the console dashboard, choose* ***Launch Instance****.*
2. *Choose an* ***Amazon Machine Image*** *(AMI) with the following name “Amazon Linux 2 AMI”*
3. *Choose an* ***Instance Type -> t2.nano***
4. *On the Review Instance Launch page, choose* ***Launch****.*
5. *When prompted for a key pair, select* ***Choose an existing key pair****, then select your key pair*
6. *Locate your instance in* ***Instances*** *navigation pane.*
7. *Select your instance, and then choose* ***Actions****,* ***Security****,* ***Change security groups****.*
8. *Select required security group from the list and choose* ***Add security group****.*

*Connect to the instance*

1. *From bash console type “ssh -i your\_ssh\_key ec2-user@ec2\_instance\_public\_name”.*
2. *Observe instance root directory with “ls”command*
3. *Type ”exit” to disconnect from the instance.*

## Benefits / Outcomes / Pros and Cons / Summary

*This simple task shows you how to launch standalone EC2 instance with defined shape and image.*

## Tearing down

*Terminate instance(see the explanation above), security group and ssh-key.*