

## **TECH2102: Enterprise Computing (2023)**

**Assignment code:** A2

**Author:** Samandeep Singh

**BVC username:** SamandeepSingh (s.singh9471@mybvc.ca)

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**Description:** For this assignment, I created an EC2 instance and configured it as per the given instructions. I chose the Amazon AMI and instance type of T2 Micro. I configured the instance details such as network, subnet, auto-assign public IP, IAM role, shutdown behavior, and tenancy shared. I added storage of 8 General purpose SSD (GP2) and configured the volume not to be deleted on termination. I also added a name tag of Dev-Server and an owner tag of my name to ensure that the tags were applied for both instances and volumes.

Further, I created a new security group called Dev-appserver-secgroup and added a rule for HTTP to allow it from everywhere. I then created a new Amazon Machine Image (AMI) from the instance I created and named it BVCUserName-aws-appserver-v1. I set the storage of the new AMI to be 8 gig.

Finally, I created an autoscaling group using the BVCUserName-aws-appserver-v1 AMI that I created. I configured a security group BVCUserName-ASG-secgroup-v1 and allowed HTTP and SSH. I named the autoscaling group BVCUserName-AutoScalingGroup and set the group size to 3, scaling between 3 and 3. Additionally, I configured the tag name to be ASGServer1. I have followed the provided instructions carefully, and I believe I have completed all the required tasks correctly. Refer to the video uploaded to the GDrive link below to know what all I have done in more detail.

GDrive Link:

<https://drive.google.com/file/d/1Da7lWp-OfTh1viwGrLJ2ySvl8LHO9NA2/view?usp=sharing>