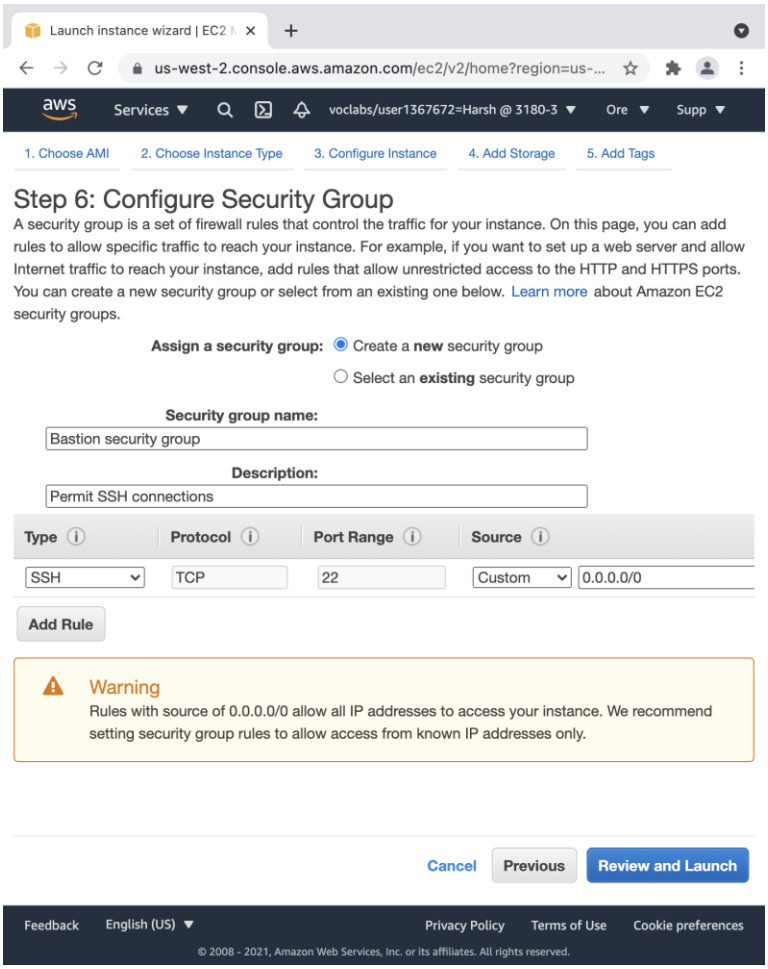
Creating EC2 Instances from the CLI and Management Console

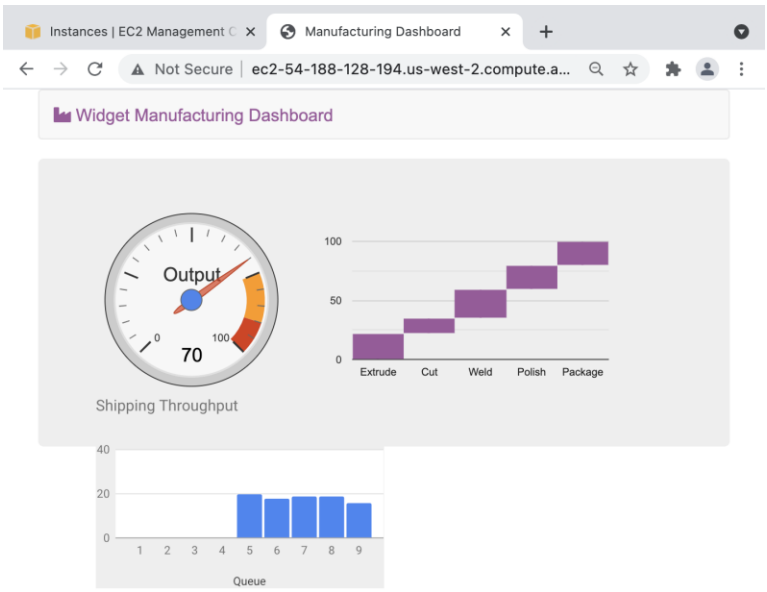
This exercise is designed to go over how to create and configure EC2 instances from the command line interface (CLI) and AWS Management Console. It was completed using the re/Start lab environment so there are some preconfigured resources.

Launching an instance from the management console

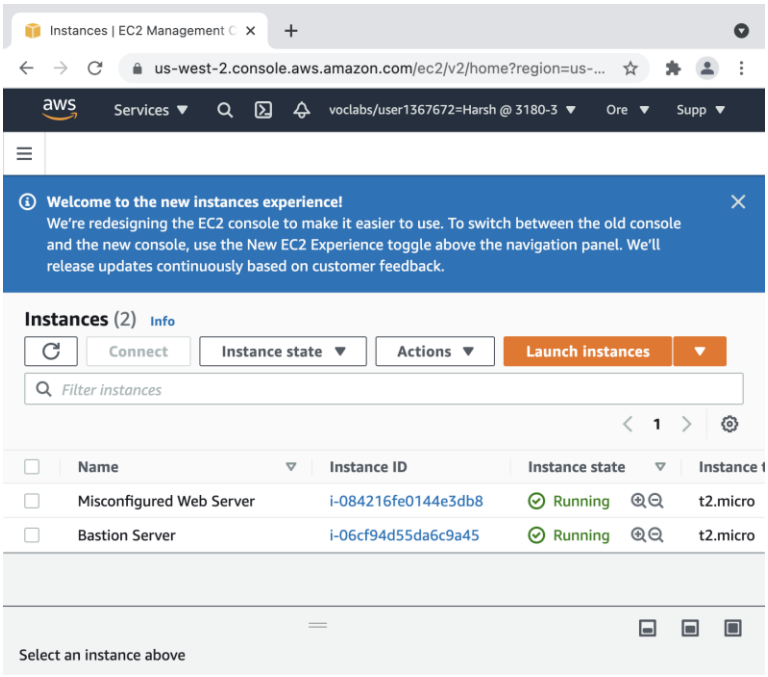
Creating a new security group for the instance we're creating: Bastion Host.



We can successfully access Bastion Host from the public IP address, verifying that it is running.



Additionally, we can verify Bastion Host is running directly from the Management Console EC2 service.



The Misconfigured Web Server instance will not be discussed in this presentation.

Launching an instance from the CLI

```
Downloads — ec2-user@ip-10-0-0-151:~ — ssh -i labsuserpem.pem ec2-...
[ec2-user@ip-10-0-0-151 ~]$
[ec2-user@ip-10-0-0-151 ~]$ # Set the Region
[ec2-user@ip-10-0-0-151 ~]$ AZ=`curl -s http://169.254.169.254/latest/meta-data/
placement/availability-zone`
[ec2-user@ip-10-0-0-151 ~]$ export AWS_DEFAULT_REGION=${AZ::-1}
[ec2-user@ip-10-0-0-151 ~]$ # Obtain latest Linux AMI
[ec2-user@ip-10-0-0-151 ~]$ AMI=$(aws ssm get-parameters --names /aws/service/am
i-amazon-linux-latest/amzn2-ami-hvm-x86_64-gp2 --query 'Parameters[0].[Value]' -
-output text)
[ec2-user@ip-10-0-0-151 ~]$ echo $AMI
ami-0800fc0fa715fdcfe
[ec2-user@ip-10-0-0-151 ~]$ SUBNET=$(aws ec2 describe-subnets --filters 'Name=ta
g:Name,Values=Public Subnet' --query Subnets[].SubnetId --output text)

[ec2-user@ip-10-0-0-151 ~]$ echo $SUBNET
subnet-0153ec2faaa60244e
[ec2-user@ip-10-0-0-151 ~]$
[ec2-user@ip-10-0-0-151 ~]$
[ec2-user@ip-10-0-0-151 ~]$ SG=$(aws ec2 describe-security-groups --filters Name
=group-name,Values=WebSecurityGroup --query SecurityGroups[].GroupId --output te
xt)
[ec2-user@ip-10-0-0-151 ~]$ echo $SG
sg-028fe4e97e817e6e2
[ec2-user@ip-10-0-0-151 ~]$
```

Verifying from the Management Console that the Web Server instance is running.