

Lab 2: Creating Amazon EC2 Instances

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Figure 1

A screenshot showing Name and Tags.

The screenshot displays the AWS Management Console interface for launching an EC2 instance. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:`. The console header includes the AWS logo, a search bar, and the user's account information: `voclabs/user2353490=Mutturaj @ 2899-2449-2459`.

The main content area is titled "Launch an instance" and includes a brief introduction: "Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below."

The "Name and tags" section is expanded, showing a table of tags:

Key	Value	Resource types
Name	Bastion Server	Instances
IFT 422	Spurthy Mutturaj	Instances

Below the table, there is an "Add new tag" button and a note: "You can add up to 48 more tags."

The "Summary" section on the right provides a overview of the instance configuration:

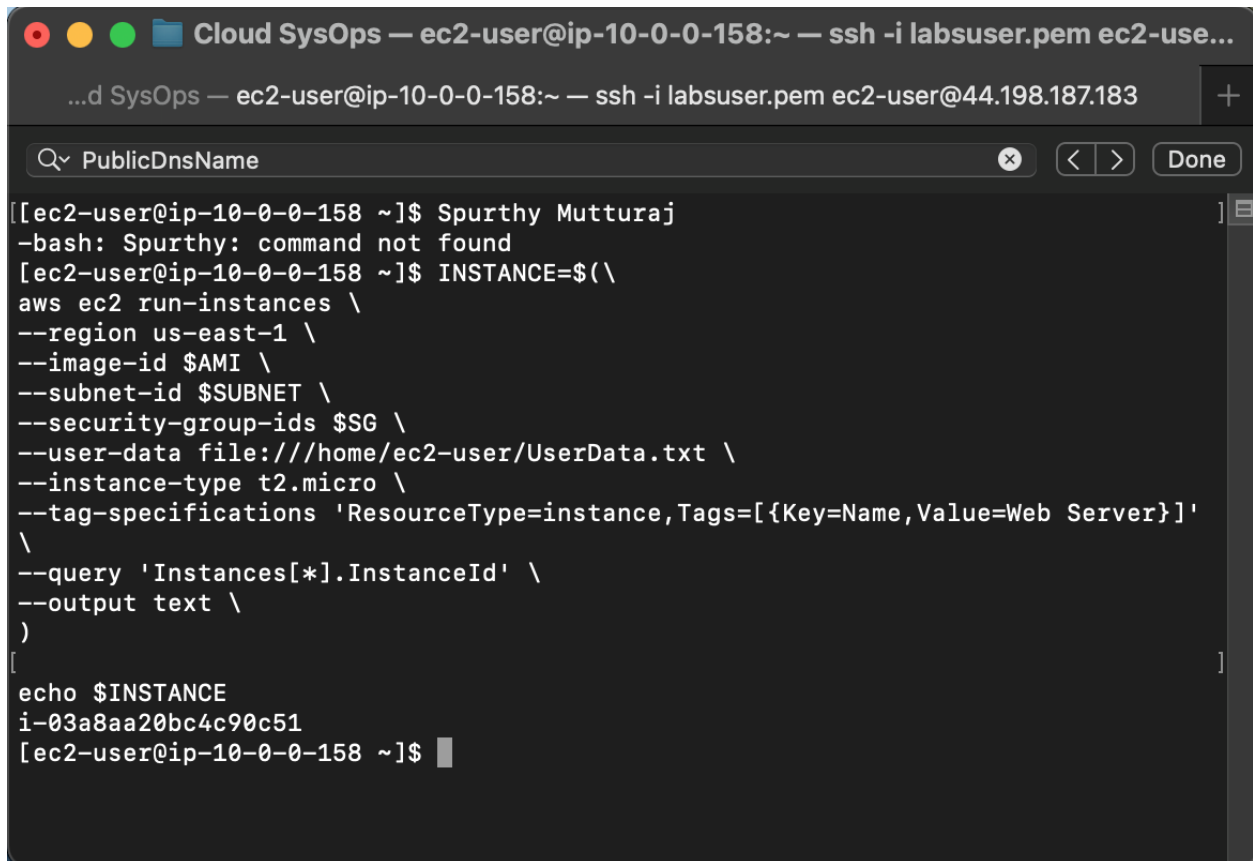
- Number of instances: 1
- Software Image (AMI): Amazon Linux 2023 AMI 2023.1.2...[read more](#) (ami-051f7e7f6c2f40dc1)
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

A "Free tier" notification is displayed, stating: "In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet."

At the bottom right, there are buttons for "Cancel", "Launch instance", and "Review commands".

Figure 2

Screenshot of launching an Instance



The screenshot shows a terminal window titled "Cloud SysOps — ec2-user@ip-10-0-0-158:~ — ssh -i labsuser.pem ec2-use...". The terminal displays the following commands and output:

```
[ec2-user@ip-10-0-0-158 ~]$ Spurthy Mutturaj
-bash: Spurthy: command not found
[ec2-user@ip-10-0-0-158 ~]$ INSTANCE=$(
aws ec2 run-instances \
--region us-east-1 \
--image-id $AMI \
--subnet-id $SUBNET \
--security-group-ids $SG \
--user-data file:///home/ec2-user/UserData.txt \
--instance-type t2.micro \
--tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=Web Server}]' \
--query 'Instances[*].InstanceId' \
--output text \
)
[
echo $INSTANCE
i-03a8aa20bc4c90c51
[ec2-user@ip-10-0-0-158 ~]$
```

Figure 3

Screenshot of testing the server

