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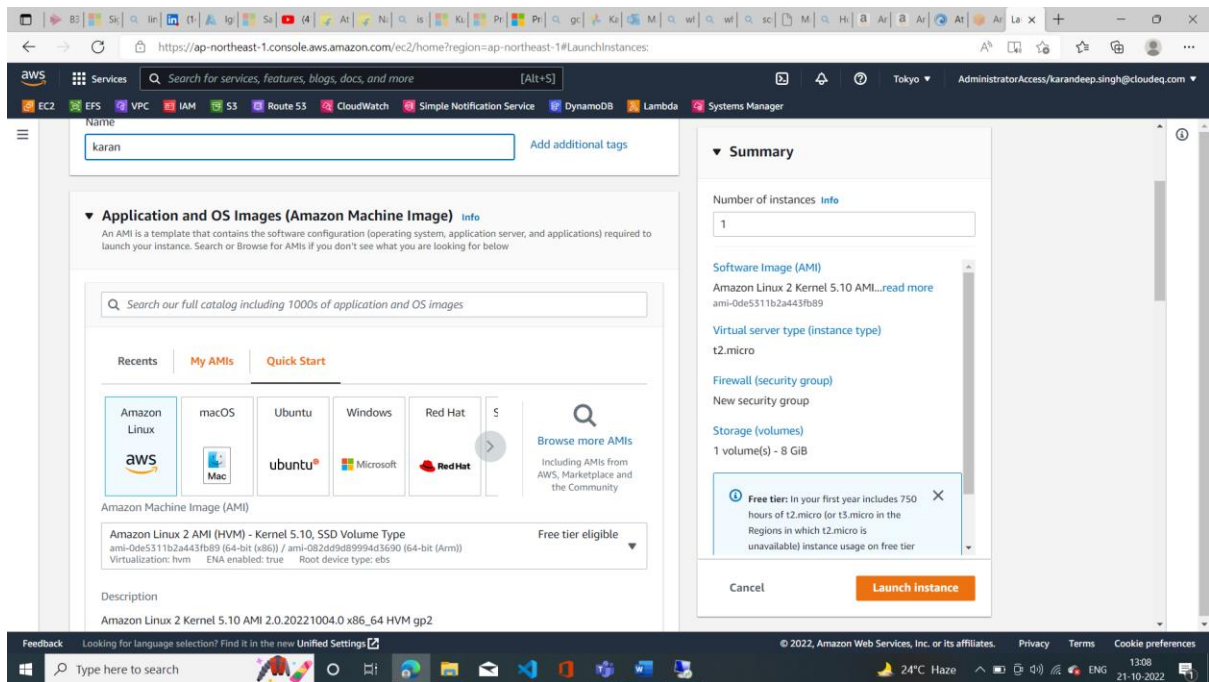
Sprint-5(IAC)
Docker-Day1

Q: What is Elastic Compute Cloud (EC2)?

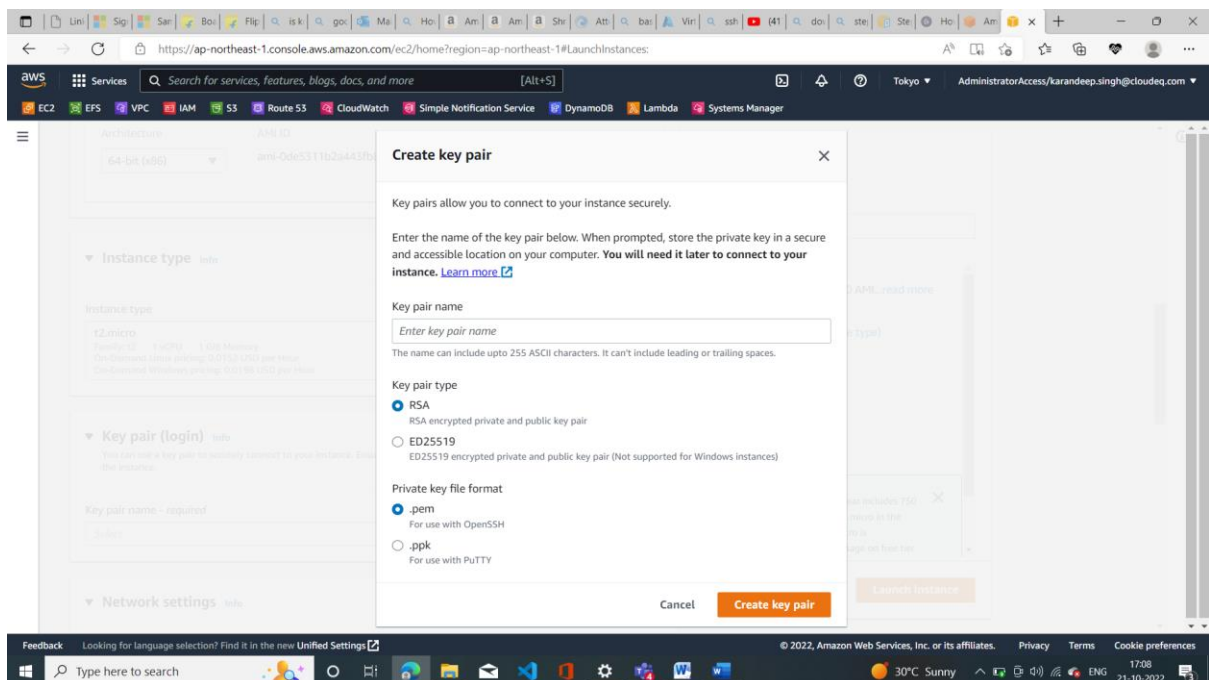
EC2 stands for Elastic Compute Cloud. EC2 is on-demand computing service on the AWS cloud platform. Under computing, it includes all the services a computing device can offer to you along with the flexibility of a virtual environment. It also allows the user to configure their instances as per their requirements allocate the RAM, ROM, and storage according to the need of the current task. Even the user can dismantle the virtual device once its task is completed and it is no more required. For providing, all these scalable resources AWS charges some bill amount at the end of every month, bill amount is entirely dependent on your usage. EC2 provides you to rent virtual computers. The provision of servers on AWS Cloud is one of the easiest way in EC2.

Steps to create Ec2

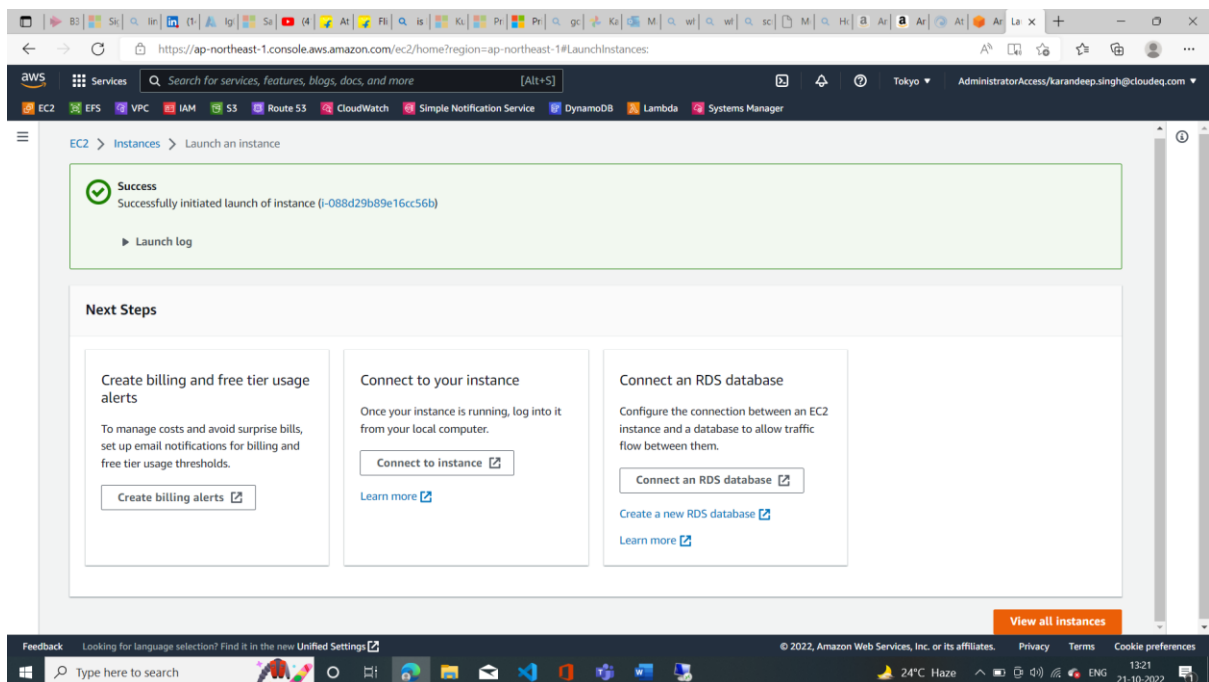
1. Go to AWS console Choose **Launch Instance**.
2. Give a name and choose an Amazon Machine Image (AMI)



3. Create key pair to connect your instance securely.



4. Choose Review and Launch.



Q: What is Docker?

Docker is an open source platform that enables developers to build, deploy, run, update and manage containers—standardized, executable components that combine application source code with the operating system (OS) libraries and dependencies required to run that code in any environment.

Docker VS Virtual machine

VM

Docker

Virtualization	From our understanding thus far, both virtual machines and Docker containers provide isolated environments to run applications	A Docker container virtualizes <i>only</i> the application layer, and runs on top of the host operating system.
Compatibility	A virtual machine uses its own operating system and is <i>independent</i> of the host operating system that it's running on	A Docker container, on the other hand, is compatible with <i>any</i> Linux distribution. You may run into some problems running Docker on a Windows machine or an older Mac.
Size	A Docker image is lightweight and is typically in the order of kilobytes.	A Docker image is lightweight and is typically in the order of kilobytes.
Performance	In terms of performance, Docker containers provide near-native performance. Because they are lightweight, you can start them in a few milliseconds.	Starting a VM is equivalent to setting up a standalone machine inside your computer. It can take as long as a few minutes to start a VM instance.

