

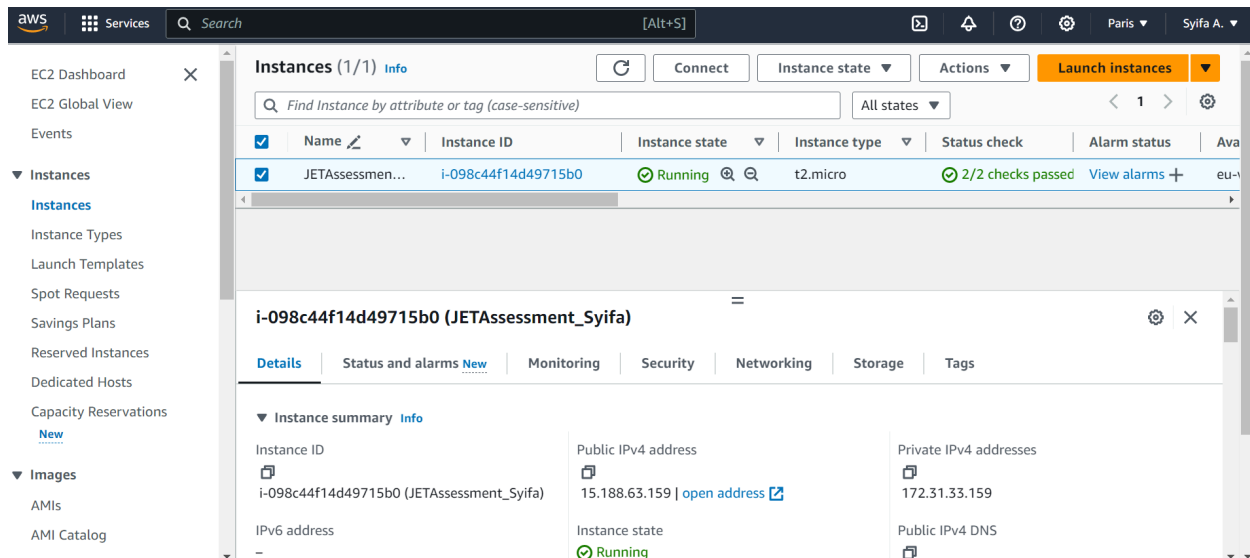
CI/CD Pipeline

Jet Platform Engineering Early Careers Assessment

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AWS EC2 Instance

I started the assessment by creating an Instance on AWS EC2



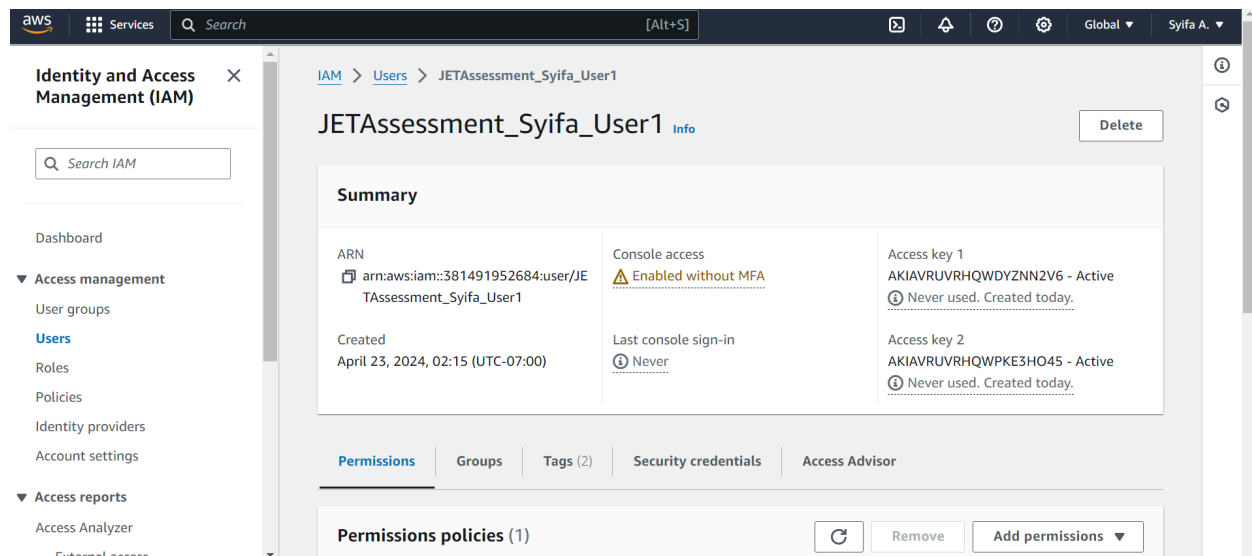
Amazon Elastic Compute Cloud (Amazon EC2) is a web service offered by Amazon Web Services (AWS) that provides resizable compute capacity in the cloud. In simpler terms, it allows users to rent virtual servers, known as instances, on which they can run their applications.

Features:

1. **Instances:** These are virtual servers that users can rent from AWS. Instances are available in various configurations, such as different CPU, memory, storage, and networking capacities, to suit different workload requirements.
2. **Variety of Operating Systems:** EC2 supports a wide range of operating systems, including various Linux distributions, Microsoft Windows, and FreeBSD, allowing users to choose the operating system that best fits their needs.
3. **Security:** EC2 instances run in a virtual private cloud (VPC), providing network isolation and control over inbound and outbound traffic. Users can also implement additional security measures such as firewalls, security groups, and encryption to protect their instances and data.

4. Integration with Other AWS Services: EC2 integrates seamlessly with other AWS services, such as Amazon S3 for storage, Amazon RDS for databases, Amazon VPC for networking, and AWS IAM for access management, allowing users to build complex and scalable architectures.

This instance has an IAM user that I have set up with its own credentials



The secret keys have been stored as Secrets in my repository, allowing for the CI/CD workflow to automate its process securely.

Following that, I created a GitHub workflow yaml file for the CI/CD automation in the workflow directory.