

Day 1 – AWS Key Pair Creation (AWS)



Challenge

100 Days of Cloud (AWS & Azure)

Day 1 – AWS Fundamentals



Objective

Create an AWS EC2 key pair that will later be used for secure access to cloud servers.

This task validates understanding of basic AWS security concepts and correct regional configuration.



Task Requirements

| Requirement | Value |
|-------------|---------------|
| Key Name | datacenter-kp |
| Key Type | RSA |
| AWS Region | us-east-1 |

Task

46:17

The Nautilus DevOps team is strategizing the migration of a portion of their infrastructure to the AWS cloud. Recognizing the scale of this undertaking, they have opted to approach the migration in incremental steps rather than as a single massive transition. To achieve this, they have segmented large tasks into smaller, more manageable units. This granular approach enables the team to execute the migration in gradual phases, ensuring smoother implementation and minimizing disruption to ongoing operations. By breaking down the migration into smaller tasks, the Nautilus DevOps team can systematically progress through each stage, allowing for better control, risk mitigation, and optimization of resources throughout the migration process.

For this task, create a key pair with the following requirements:

- Name of the `key pair` should be `datacenter-kp`.
- Key pair `type` must be `rsa`.

Use below given AWS Credentials: (You can run the `showcreds` command on `aws-client` host to retrieve these credentials)

| | |
|-------------|---|
| Console URL | https://077406604020.signin.aws.amazon.com/console?region=us-east-1 |
| Username | kk_jabs_user_209611 |
| Password | sx*PI480Z*NL |
| Start Time | Thu Dec 25 04:17:33 UTC 2025 |
| End Time | Thu Dec 25 05:17:33 UTC 2025 |

Concept Overview

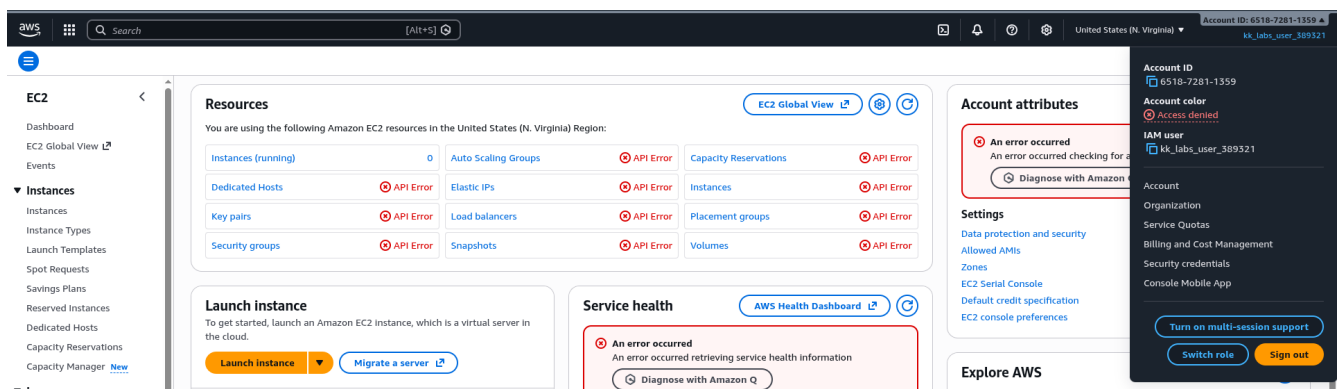
An **AWS Key Pair** is a set of cryptographic keys (public & private) used to securely authenticate to EC2 instances. AWS uses key pairs instead of passwords to improve security.

- Public key → stored in AWS
- Private key → downloaded and kept securely by the user

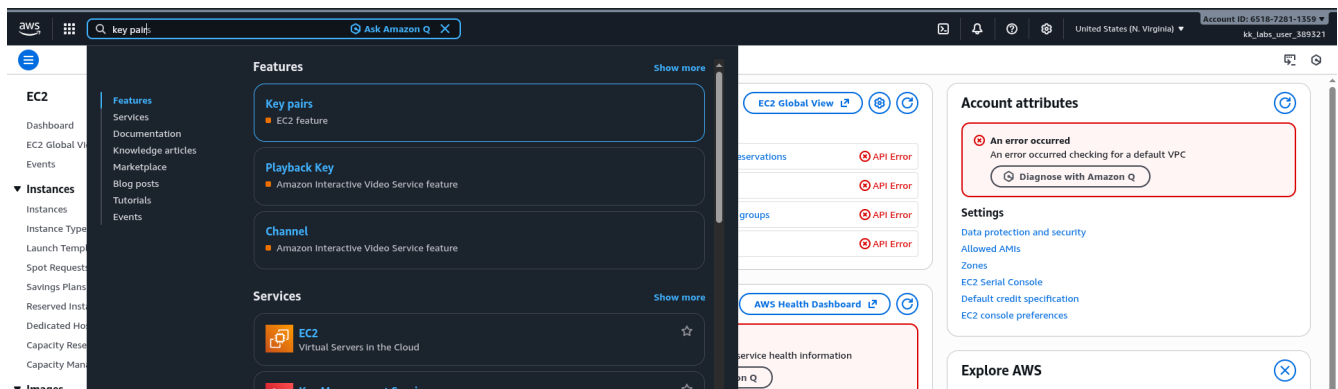


AWS Management Console (GUI)

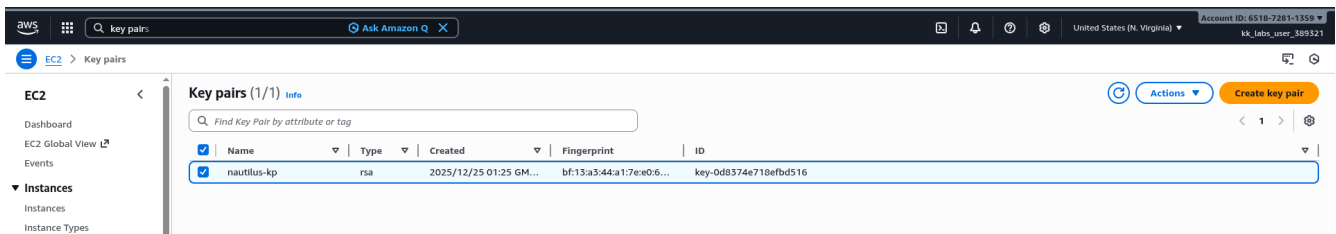
1. Logged into AWS Console using provided credentials



2. Navigated to EC2 → Key Pairs

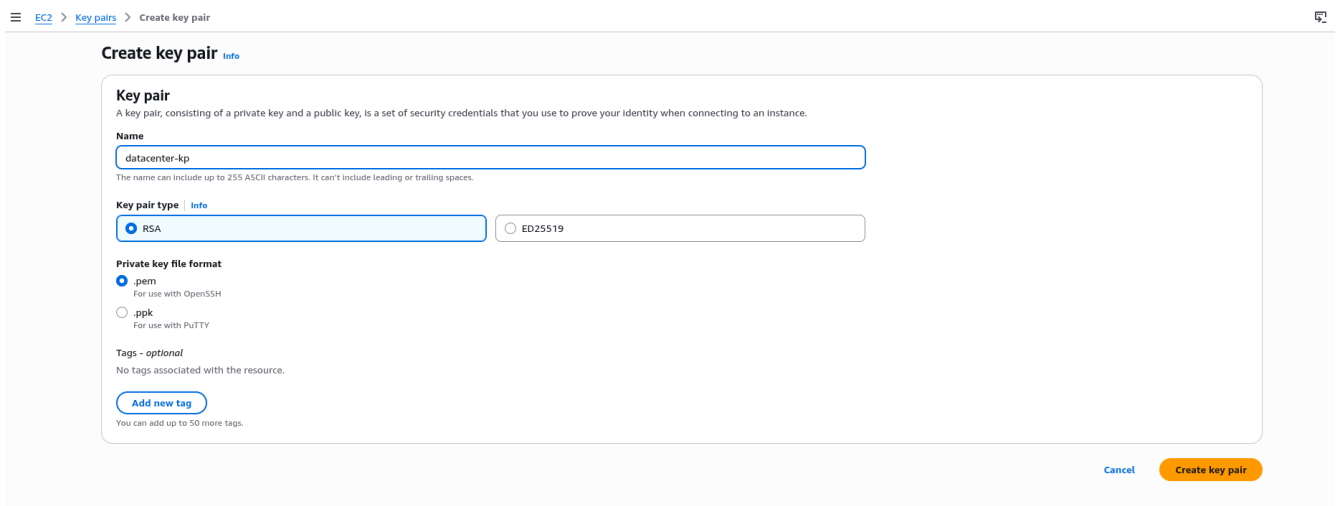


3. Clicked **Create Key Pair**



4. Entered the following:

- o **Name:** datacenter-kp
- o **Type:** RSA
- o **Region:** us-east-1



5. Created and downloaded the key

✓ Outcome


- Successfully created an RSA key pair named datacenter-kp
- Verified creation via CLI and AWS Console
- Private key secured with correct file permissions

📖 Key Takeaways

- AWS uses key pairs instead of passwords for EC2 access
- Correct region selection is critical in AWS

Proof of Work

This task demonstrates hands-on experience with: - AWS IAM authentication - EC2 key pair management - Secure handling of private keys

 Screenshots included as evidence of real cloud work

Next: Day 2 – EC2 Instance Launch & SSH Access