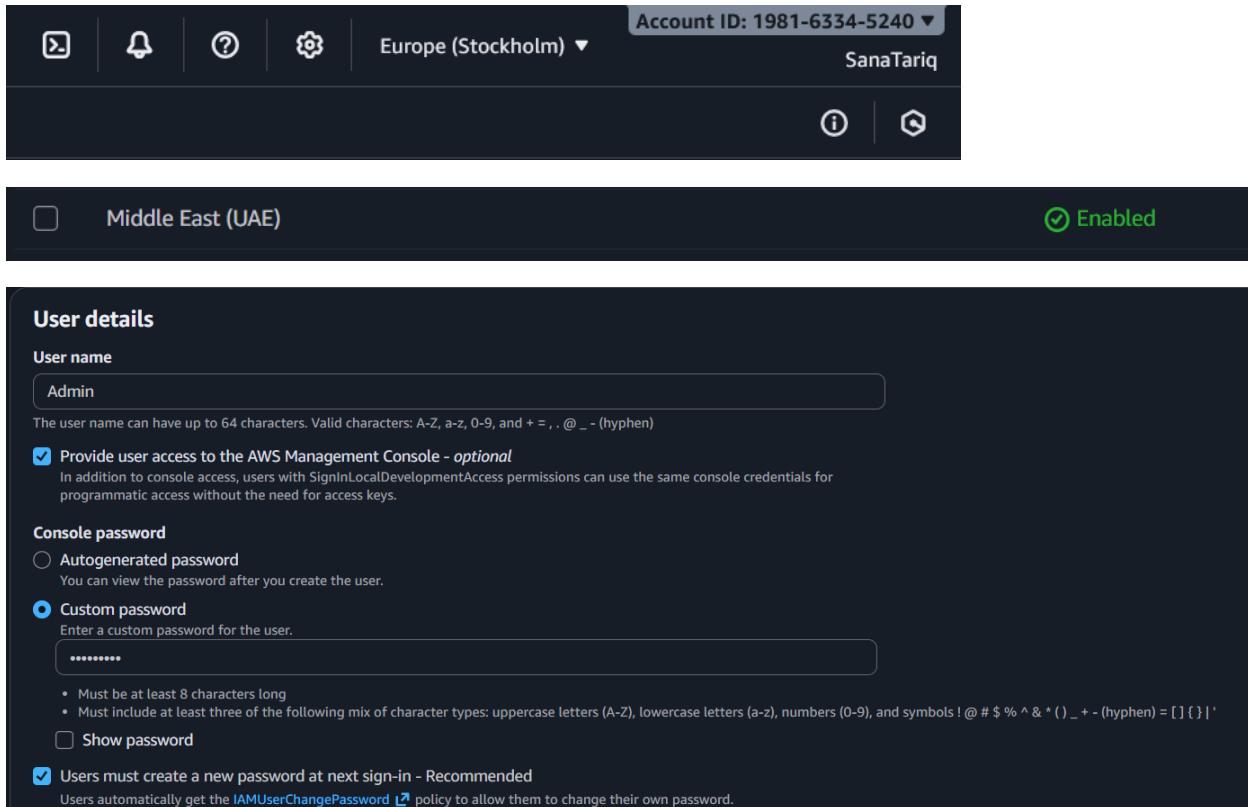


NAME: SANA TARIQ
CLASS: BSE 5B
REG.NO: 058
SUBJECT: CLOUD COMPUTING

LAB#08

Task 1 & 2: Account & IAM Setup



The screenshot shows the AWS IAM User creation interface. At the top, it displays the account ID (1981-6334-5240) and region (Europe (Stockholm)). The user name is set to "SanaTariq". Below this, there is a dropdown menu for the region, currently set to "Middle East (UAE)", with the status "Enabled".

User details

User name: Admin

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = . @ _ - (hyphen)

Provide user access to the AWS Management Console - optional (checkbox checked): In addition to console access, users with SigninLocalDevelopmentAccess permissions can use the same console credentials for programmatic access without the need for access keys.

Console password

Autogenerated password: You can view the password after you create the user.

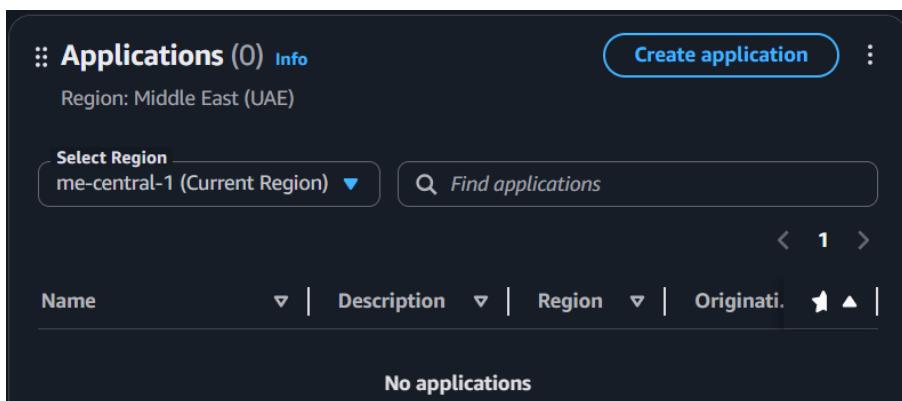
Custom password: Enter a custom password for the user. The password is masked as "*****".

Must be at least 8 characters long
Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # \$ % ^ & * () _ + - (hyphen) = [] { } |`

Show password

Users must create a new password at next sign-in - Recommended (checkbox checked): Users automatically get the IAMUserChangePassword policy to allow them to change their own password.

Task 3: VPC Inspection



The screenshot shows the AWS Applications page. It displays a header with "Applications (0)" and a "Create application" button. The region is set to "Middle East (UAE)". There is a "Select Region" dropdown currently set to "eme-central-1 (Current Region)" and a search bar with the placeholder "Find applications". Below the search bar, there are navigation arrows for pagination (less than, 1, greater than). The main table has columns for Name, Description, Region, Originati., and sorting icons. The message "No applications" is displayed at the bottom.

me-central-1.console.aws.amazon.com/vpcconsole/home?region=me-central-1#subnets:

Subnets (3) <small>info</small>	Last updated	Actions		
Name	Subnet ID	State	VPC	Block Public...
-	subnet-036b24d524a4a8b41	Available	vpc-04a44d49b9440a0d6	<input type="radio"/> Off
-	subnet-01a6b802f642a6c6f	Available	vpc-04a44d49b9440a0d6	<input type="radio"/> Off
-	subnet-055e50e87b27fd1b0	Available	vpc-04a44d49b9440a0d6	<input type="radio"/> Off

Task 4: EC2 & Gitea Deployment (The Technical Part)

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.

Lab8key

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

- RSA
RSA encrypted private and public key pair
- ED25519
ED25519 encrypted private and public key pair

Private key file format

- .pem
For use with OpenSSH
- .ppk
For use with PuTTY

Firewall (security groups) | [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

We'll create a new security group called '**launch-wizard-1**' with the following rules:

Allow SSH traffic from
Helps you connect to your instance

My IP
154.192.251.82/32

```
,      #
~\_ ####_      Amazon Linux 2023
~~ \####\_
~~   \###|
~~     \#/  https://aws.amazon.com/linux/amazon-linux-2023
~~     V~'__->
~~       /
~~_.  _/
~~  /  /
~~/_m/'[ec2-user@ip-172-31-5-40 ~]$
```

```
[ec2-user@ip-172-31-5-40 ~]$ sudo yum update -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-5-40 ~]$ sudo yum install -y docker
```

```
Complete!
[ec2-user@ip-172-31-5-40 ~]$ sudo mkdir -p /usr/local/lib/docker/cli-plugins
https://github.com/docker/compose/releases/latest/download/docker-compose-linux-x86_64 -o /usr/local/lib/docker/cli-plugins/docker-compose
sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
curl -SL https://github.com/docker/compose/releases/latest/download/docker-compose-linux-x86_64 -o /usr/local/lib/docker/cli-plugins/docker-compose
[ec2-user@ip-172-31-5-40 ~]$ sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
[ec2-user@ip-172-31-5-40 ~]$ sudo curl -SL https://github.com/docker/compose/releases/latest/download/docker-compose-linux-x86_64 -o /usr/local/lib/docker/cli-plugins/docker-compose
% Total    % Received % Xferd  Average Speed   Time   Time     Time  Current
          Dload  Upload Total Spent   Spent    Left  Speed
0       0     0      0      0      0      0      0      0      0      0      0      0
0       0     0      0      0      0      0      0      0      0      0      0      0
100 29.8M  100 29.8M  0      0  51.8M      0      0      0      0      0      0      0
[ec2-user@ip-172-31-5-40 ~]$ sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
[ec2-user@ip-172-31-5-40 ~]$ sudo chmod +x /usr/local/lib/docker/cli-plugins/docker-compose
[ec2-user@ip-172-31-5-40 ~]$
```

```
[ec2-user@ip-172-31-5-40 ~]$ nano compose.yaml
[ec2-user@ip-172-31-5-40 ~]$ [ec2-user@ip-172-31-5-40 ~]$ docker compose up -d
[+] up 16/18
[+] up 23/23 gitea:latest Pulled
  Image gitea/gitea:latest Pulled
    2d35ebdb57d9 Pull complete
    9f4ae672c1f34 Pull complete
    4da94b3cc809 Pull complete
    8e0166ce0bd3 Pull complete
    346e493cb6cb Pull complete
    95215379f1d1 Pull complete
  Image postgres:alpine Pulled
    1074353eec0d Pull complete
    51a9324a2bdc Pull complete
    1e827ac0fa1e Pull complete
    0629ac8b8cc5 Pull complete
    2e50a444bddf Pull complete
    4465107e1675 Pull complete
    cc2ee20b6816 Pull complete
    0fdf86289dd1 Pull complete
    98ecc0da868 Pull complete
    b747867e61cb Pull complete
  Network webnet Created
  Volume gitea_postgres Created
  Volume gitea Created
  Container gitea_db Created
  Container gitea Created
```

Initial Configuration

If you run Gitea inside Docker, please read the [documentation](#) before changing any settings.

Database Settings

Gitea requires MySQL, PostgreSQL, MSSQL, SQLite3 or TiDB (MySQL protocol).

Database Type *	PostgreSQL
Host *	db:5432
Username *	gitea
Password *
Database Name *	gitea
SSL *	Disable
Schema	Leave blank for database default ("public").

General Settings

Site Title *

You can enter your company name here.