Usage instructions:

1. Launch the product via 1-click from AWS Marketplace. **Wait** until the instance status changes to 'Running' and passes all health checks. Then, connect to your instance using your Amazon private key and the '**ubuntu**' user."

To update software, use: **sudo apt update && sudo apt upgrade -y**

Launch & connect (first run)

1. **Launch the AMI** with a security group that allows. Wait ~1–2 minutes for first-boot to finish.

2. Run the following command to set up your IP address and login credentials:

sudo /opt/keycloak/firstboot-keycloak.sh

You'll be asked:

- **Public IP**: type your instance Public IP you address.
- **Admin username** (default: admin) and choose your **password**.

The wizard will automatically do the following:

- Generate a TLS certificate tied to your IP.
- Create /opt/keycloak/.env.
- Start Keycloak with Docker Compose.
- Enable auto-start on reboots.

3) Access Keycloak

- Open in a browser for Key Cloak GUI: **https://Your_Instance_Public_IP:8443/**

- Click **Administration Console**. Your browser will warn about a **self-signed** certificate—proceed to the site.
- Log in with the **admin username/password you set** in the wizard.

(Optional) Additional Info: Common tasks, etc.

- Show current settings:

  sudo cat /opt/keycloak/.env

- Restart Keycloak:

  sudo systemctl restart keycloak

- Update to the latest Keycloak image:

  cd /opt/keycloak

  sudo docker compose --env-file .env pull

  sudo docker compose --env-file .env up -d

  Status:

  sudo systemctl status keycloak

AWS Data

- Data Encryption Configuration: This solution does not encrypt data within the running instance.
- User Credentials are stored: /root/.ssh/authorized_keys & /home/ubuntu/.ssh/authorized_keys
- Monitor the health:
  - Navigate to your Amazon EC2 console and verify that you're in the correct region.
  - Choose Instance and select your launched instance.
  - Select the server to display your metadata page and choose the Status checks tab at the bottom of the page to review if your status checks passed or failed.

Extra Information: (Optional)

Allocate Elastic IP

To ensure that your instance **keeps its IP during restarts** that might happen, configure an Elastic IP. From the EC2 console:

1. Select ELASTIC IPs.
2. Click on the ALLOCATE ELASTIC IP ADDRESS.
3. Select the default (Amazon pool of IPv4 addresses) and click on ALLOCATE.
4. From the ACTIONS pull down, select ASSOCIATE ELASTIC IP ADDRESS.

5. In the box that comes up, note down the Elastic IP Address, which will be needed when you configure your DNS.
6. In the search box under INSTANCE, click and find your INSTANCE ID and then click ASSOCIATE.
7. Your instance now has an elastic IP associated with it.
8. For additional help: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/elastic-ip-addresses-eip.html