

Privaclave AWS Deployment Manual

Pre-requisites:

- ❖ Create an **EC2** instance of at least **t3.medium** configuration with **Red Hat Enterprise Linux**.

Step 1: Prepare the Setup

- ✓ Gain root access:

```
bash
sudo -i
```

- ✓ Update and install **wget**

```
bash
sudo yum update -y
sudo yum install -y wget
```

- ✓ Install **unzip** (if not already installed):

```
bash
sudo yum install -y unzip
```

- ✓ Download the **privaclave_setup** zip file:

wget https://github.com/privaclave-internal/privaclave-setup/raw/main/privaclave_setup_0.0.1.zip -O privaclave_setup_0.0.1.zip

- ✓ Unzip the setup file:

```
bash
unzip privaclave_setup_0.0.1.zip
```

- Apply (Read , Write and execute) permission → **chmod 777 privaclave_setup_0.0.1**

Step 2: Configure AWS Credentials

- ✓ Navigate to the unzipped **privaclave_setup_0.0.1** directory

```
bash
cd privaclave_setup_0.0.1
```

- ✓ Open **AwsConfig.properties** file for editing

```
bash
nano AwsConfig.properties
```

* alternative way : `vi AwsConfig.properties` (if nano not installed)

- ✓ Update the file with your **AWS credentials**

```
properties
AWSAccessKeyId=YOUR_AWS_ACCESS_KEY_ID
AWSSecretAccessKey=YOUR_AWS_SECRET_ACCESS_KEY
EC2HostedRegion=YOUR_EC2_REGION
privaclaveComponentRoleArn=arn:aws:iam::014223972444:role/thirdpartys3access
```

* **privaclaveComponentRoleArn** role is fixed from Privaclave so no need to change that.

Step 3: Obtain AWS Access Key and Secret Access Key

1. **Sign in to the AWS Management Console:**
 - Open [AWS Management Console](#).
 - Sign in with your AWS account credentials.
2. **Navigate to the IAM Console:**
 - In the AWS Management Console, type **IAM** in the search bar and select **IAM**.
3. **Select the User:**
 - In the IAM console, click on Users in the navigation pane.
 - Click on the name of the user for whom you want to create access keys.
4. **Create Access Keys:**
 - Click on the Security credentials tab.
 - Scroll down to the Access keys section.
 - Click on Create access key.
 - A dialog box will appear showing the **Access key ID** and **Secret access key**.
 - **Important:** Copy the Secret access key immediately as you will not be able to retrieve it later. Store it securely.

Step 4: Run the Setup Script

- ✓ Navigate to the setup directory:

```
bash
cd /home/user/privaclave_setup_0.0.1/
```

- ✓ `chmod +x privaclave_setup0.0.1.sh`

- ✓ `yum install dos2unix`
- ✓ `dos2unix setup.sh`

- ✓ Run the setup script

```
bash
./setup.sh
```

This will install:

- **JDK 1.8.341** : verify installation using '`java -version`' command.
- **Tomcat Web Server 8.5.100** : It will be installed at `/opt/tomcat` folder.
- **After Successful installation Inbound security groups need to configure to allow port 8080 and your application will be available at <http://<your instace public ip>:8080>.**

Inbound rules (4) Manage tags Edit inbound rules

Q Search < 1 > ⚙

<input type="checkbox"/>	Name ▾	Security group rule... ▾	IP version ▾	Type ▾	Protocol ▾	Port range
<input type="checkbox"/>	-	sgr-048d82d091d451...	IPv4	SSH	TCP	22
<input type="checkbox"/>	-	sgr-0f0fd99bd1887043d	IPv4	Custom TCP	TCP	8080

Step 5: Install MariaDB

- ✓ `chmod +x mariadbinstall.sh`
- ✓ `dos2unix mariadbinstall.sh`

- ✓ Run the MariaDB installation script:

```
bash
./mariadbinstall.sh
```

Step 6: Deploy Privaclave Components

- ✓ Run the deployment command

```
bash
java -jar PRIVACLAVE_AWS_COMPONENT_DEPLOYER_0.0.1.jar
```

This will perform the following operations :

- ❖ Create Lambda functions as per the defined configuration.
- ❖ Pull **AutoPilot<VERSION_ID>.jar** from PRIVACLAVE COMPONENTS BUCKET and upload it to the Lambda function.
- ❖ Pull **CockpitEngine.war** and **CockpitAgent.war** from PRIVACLAVE COMPONENTS BUCKET and deploy them to the /opt/tomcat/webapps directory.
- ❖ Configure **Cockpit Engine DB** and related DB Configuration.