Linux Academy
Live! Lab

Provisioning an EC2 Instance

Contents

Lab Connection Information

- Labs may take up to five minutes to build

- Access to an AWS Console is provided on the Live! Lab page, along with your login credentials

- Ensure you are using the N. Virginia region

- Labs will automatically end once the alloted amount of time finishes

This lab will walk through the process of creating an EC2 instance, including choosing an AMI and instance type, determining instance details such as VPCs, subnets, and Availability zones, and creating security groups and key pairs.

Provisioning the Instance

Navigate to the **EC2 Dashboard** and click **Launch Instance**. The first thing we need to select is the AMI. **Select** the *Amazon Linux AMI*.

Next, we **Choose an Instance Type**. We want to use the *General purpose t2.micro*. Press **Next: Configure Instance Details**.

For the instance details, set the **Network** to one of the available VPCs, and set the **Subnet** to *us-east-1a*. *Enable* **Auto-assign Public IP**. We can leave the rest as-is. **Next: Add Storage**.

Storage settings can also be left as default. **Next: Add tags**.

Tags are optional when creating EC2 instances, although can be useful for differentiating instances in actual infrastructures. For this lab, we gave our instances a **Name** tag of *lab-ec2*. Press **Next: Configure Security Group**.

For this lab, we want to *Create a new security group*. We set the **Security group name** to *lab-sg* and left the **Description** with its current settings. Leave the SSH rule. We do not need to add any more rules for this lab. **Review and Launch**.

Review the instance settings, then press **Launch**.

We are now prompted to select a key pair. Change the dropdown menu to **Create a new key pair**, and set the **Key pair name**. We called ours *labkeypair*. **Download Key Pair**, then **Launch Instances**.

Click **View Instances** to see your instance. Wait until the instance finishes provisioning.

Checking Network Settings

We now want to confirm that the VPC and subnet settings are correct for us to access the instance. Select your instance, then under the **Description** tab, locate the VPC ID. Make note of the VPC name. Also note the Subnet ID.

Navigate to the **VPC Dashboard**. Click on **Your VPCs**. Select the VPC used by your instance and review its summary, then select **Internet Gateways** to confirm that there is an Internet Gateway associated with your subnet.

Click on **Subnets**. Remembering the subnet ID associated with your instance, select the appropriate subnet.

Select the **Route Table** tab below. Ensure it has the Internet Gateway associated with it. Now view the **Network ACL** to make sure SSH is allowed.

Log in to the Instance

Open the terminal. We want to SSH into our instance, but first we need to set the proper permissions for our key pair. Change the permissions settings:

```
chmod 400 labkeypair.pem
```

Return to the **EC2 Dashboard** and select your instance. Press **Connent**. Copy the SSH example given at the bottom of the pop-up:

```
ssh -i "labkeypair.pem" ec2-user@ec2.compute-1.amazonaws.com
```

Now that we have successfully accessed our instance, the lab is complete.