Challenge Lab: s3

Duration

This lab takes approximately **45 minutes** to complete.

Launch Your Lab Environment

1. At the top of these instructions, click Start Lab to launch this lab.

A Start Lab panel opens displaying the lab status.

1. Wait until you see the message "**Lab status: ready**", then click the **X** to close the Start Lab panel.
2. Click the Details drop down menu above these instructions, and then click Show. Copy the value of the **ips -- public** field to a text file and save the file as **Lab Details.txt**, using a text editor such as [Atom](https://atom.io/), [Sublime Text](https://www.sublimetext.com/) or [Visual Studio Code](https://code.visualstudio.com/). This value is the public IP address of the Linux Host. The information you have saved will be referred to as *Lab Details* in the lab.

Using SSH to Connect to the Linux Host

 Windows Users: Using SSH to Connect

 These instructions are specifically for Windows users. If you are using macOS or Linux, [skip to the next section](https://labs.vocareum.com/web/1228582/318437.0/ASNLIB/public/docs/lang/en/README.md#ssh-MACLinux).

1. Click the Details drop down menu above the instructions you are currently reading, and then click Show. A Credentials window will be presented.
2. Click the **Download PPK** button and save the **labsuser.ppk** file. *Typically your browser will save it to the Downloads directory.*
3. Exit the Details panel by clicking the **X**.
4. Download **PuTTY** to SSH into the Amazon EC2 instance. If you do not have PuTTY installed on your computer, [download it here](https://the.earth.li/~sgtatham/putty/latest/w64/putty.exe).
5. Open **putty.exe**
6. Configure PuTTY timeout to keep the PuTTY session open for a longer period of time:
   * Click **Connection**.
   * Set **Seconds between keepalives** to 30.
7. Configure your PuTTY session:
   * Click **Session**.
   * **Host Name (or IP address):** Paste the **IP address of the Linux Host instance** you saved in the *Lab Details* file earlier.
   * Back in PuTTY, in the **Connection** list, expand  **SSH**
   * Click **Auth** *(don't expand it)*.
   * Click **Browse**.
   * Browse to and select the **labsuser.ppk** file that you downloaded.
   * Click **Open** to select it.
   * Click **Open** again.
8. Click **Yes**, to trust and connect to the host.
9. When prompted **login as**, enter: ec2-user. This will connect you to the EC2 instance.
10. Windows Users: [Click here to skip ahead to the next task.](https://labs.vocareum.com/web/1228582/318437.0/ASNLIB/public/docs/lang/en/README.md#ssh-after)

macOS  and Linux  Users

These instructions are specifically for Mac/Linux users. If you are a Windows user, [skip ahead to the next task.](https://labs.vocareum.com/web/1228582/318437.0/ASNLIB/public/docs/lang/en/README.md#ssh-after)

1. Click the Details drop down menu above the instructions you are currently reading, and then click Show. A Credentials window will be presented.
2. Click the **Download PEM** button and save the **labsuser.pem** file.
3. Exit the Details panel by clicking the **X**.
4. Open a terminal window, and change directory cd to the directory where the *labsuser.pem* file was downloaded. For example, if the *labsuser.pem* file was saved to your Downloads directory, run this command:

cd ~/Downloads

1. Change the permissions on the key to be read-only, by running this command:

chmod 400 labsuser.pem

1. Run the command below *(replace****<public-ip>****with the****Linux Host****IP address you saved in the*Lab Details*file earlier)*.

ssh -i labsuser.pem ec2-user@<public-ip>

1. Type yes when prompted to allow the first connection to this remote SSH server. Because you are using a key pair for authentication, you will not be prompted for a password.

Your Challenge

To finish the Challenge do the following:

* Create an S3 bucket
* Upload an object into this bucket - **Capture screenshot for submission**
* Try to access the object using a web browser - **Capture screenshot for submission**  
   **Make the Object (not the bucket) publicly accessible**
* Access the object using a web browser - **Capture screenshot for submission**
* List the contents of the S3 bucket using AWS CLI - **Capture screenshot for submission**

Lab Complete

When you are finished with the lab:

 Congratulations! You have completed the activity. Click End Lab at the top of this page and then click **Yes** to confirm that you want to end the lab. A panel will appear indicating that "Lab resources are stopping." Click the **X** in the top right corner to close the panel. Your lab resources are persisted and accessible to you when you start the lab again.