Project 1 - Apple Silicon Supplement

One Time Instructions:

The following steps only have to be completed once at the very beginning of the course.

Create a Digital Ocean Account

Digital Ocean is a cloud provider that allows you to run Linux virtual machines. Use this link to receive a $100 credit on Digital Ocean. This credit is good for 60 days, which should give you enough time to finish this course.

Create a Project

After you have logged into DigitalOcean, click on "+ New Project". Name your project "Class" and choose "Class project / Educational purposes" for the "Tell us what it's for" drop down menu.

Instructions for Each Project or New Virtual Machine:

The following steps need to be completed for each future project in the class.

Create a Droplet (Virtual Machine / Virtual Private Server)

Click "Create", then click on "Droplet".

Under "Choose an image," select "CentOS 8 Stream x64".

Under "Choose a plan," click the "Regular Intel with SSD" radio button. Next, click on the "1GB / 1 CPU" option.

NOTE: If you Elasticsearch doesn't start for the ELK project, select the "2GB / 1 CPU" option or the "4 GB / 2 CPUs" option.

Under "Choose a datacenter region," select the location that is closest to you. If you're not sure, use "San Francisco 3".

Under "Authentication," click the "Password" radio button. Use `"123r00tPassword"` for the root password.

Under "Choose a hostname", use the hostname provided in the project instructions. For example, in Project 2, you are asked to use the hostname of "kanboard." Enter that given hostname here.

Under "Select Project", choose "Class".

Finally, click "Create Droplet".

Once the droplet has been created, you will see an IP Address. Hover over the IP address and click "Copy".

Connect to the Droplet

Open the Terminal Application. The easiest way to do this is to use Spotlight and search for "Terminal". Once the Terminal application is open, run the following command:

```
ssh root@THE_IP_ADDRESS_OF_THE_DROPLET
```

If you receive an error, wait a couple of minutes and try the above command again. It can take several minutes for the Linux server to become available.

When prompted with "Are you sure you want to continue connecting", type "yes" and hit ENTER. This will connect you to the Linux server you just created.

Next, enter the root password, which is `"123r00tPassword"`.

Disable the Security-Enhanced Linux (SELinux) Features

First, install the Nano editor:

```
dnf install -y nano
```

Edit the `/etc/selinux/config` file.

```
nano /etc/selinux/config
```

Change this line from:

```
SELINUX=enforcing
```

To:

```
SELINUX=disabled
```

Save the file by typing:

```
Ctrl-x
y
<ENTER>
```

Reboot the server to make the change active:

```
reboot
```

Reconnect to the server. You may need to wait a few minutes before the server becomes available again.

```
ssh root@THE_IP_ADDRESS_OF_THE_DROPLET
```

Confirm SELinux is disabled:

```
sestatus
```

You should see the following output:

```
SELinux status:    disabled
```

OPTIONAL: Disable Login Message

To disable the message from displaying each time you log in, run this command:

```
rm /etc/motd.d/cockpit
y
```

Disable the Local Linux Firewall

NOTE: This is not needed if you are using the CentOS 8 stream image provided by Digital Ocean. However, if you are using a different provider, you may need to run this additional command to disable the firewall.

```
systemctl disable --now firewalld
```

OPTIONAL: Install Postfix to Enable Email

If you want to send email from your server, you'll need to run the following two commands and then follow the instructions in the email lesson.

```
dnf install -y postfix
systemctl enable --now postfix
```