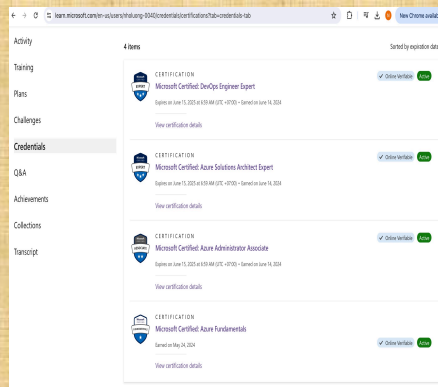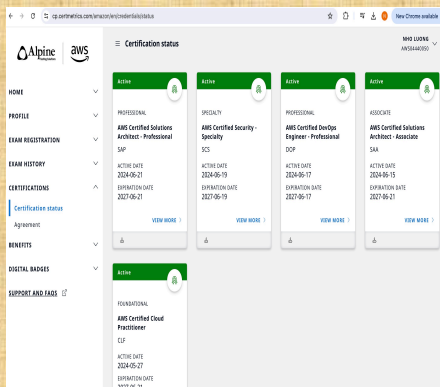# Setup on AWS CLoud

Author: Nho Luong

Skill: DevOps Engineer Lead

Configure Your Development Environment:
Amazon Web Services

Chef Workflow

When building and testing Chef code a normal workflow involves managing servers directly from your workstation. In this class, you'll start by logging into a server directly to get to know the way Chef works. In the second half of class, we'll manage remote servers (nodes) using a workstation connected to a Chef Server. For now, we'll start by managing a node using AWS.

Author: Nho Luong
Skill: DevOps Engineer Lead

Objectives:

• Check pre-reqs •
Verify your ssh client •
Create AWS Account •
Launch Centos VM

Verify your ssh client

This class uses ssh to connect to our instances. This usually involves an ssh client. If using Ma- cOS or most Linux workstations the terminal should work. If using Windows or having trouble connect- ing, the ChefDK includes Git for Windows, an ssh client.
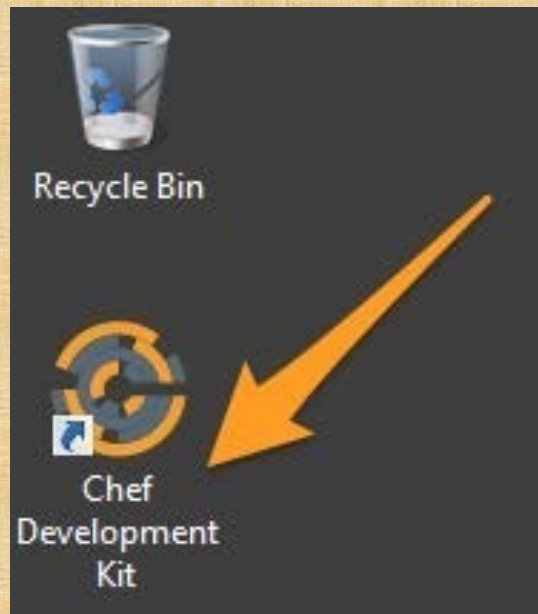
Disclaimers:

The output that you witness may be different depending on what Amazon Machine Images you use. If you have issues with Amazon Web Services, visit the discussion forums.

This class is known to work with the versions of the software we suggest installing. If something isn't working, check that you're running with the test- ed versions of the following: • ChefDK 0.18.30 • Optional: Git 2.8.2

Author: Nho Luong
Skill: DevOps Engineer Lead

Install the Chef Development Kit

You can install ChefDK from [here](#)
or On Windows you can run the
installation script->

```
PS > . { iwr -useb https://omnitruck.chef.io/install.ps1 } | iex; install -project chefdk -channel stable -version 1.0.3
```

Create/Access your
AWS Account

You will need to log into your AWS account; [if you don't have one y](#)et you can take advantage of AWS's [one-year free account](#) that gives you 750 hours of the t2.m[icro tier use eac](#)h month If you are unable to use AWS, you may try using one of the other options offered for this class

Author: Nho Luong
Skill: DevOps Engineer Lead

Launch a CentOS 7 Instance

Spin up a CentOS instance on [Amazon EC](#)2 If you haven't used AWS before, [this tutorial](#) will show you how to do so Launch a CentOS 7 instance from either the AWS console or from the AWS Marketplace Select t2.micro to implement the free usage tier In this process when you [create your security group](#), You must open ports 22 ([ssh), 80 (http), and 443 (htt](#)ps)

Author: Nho Luong
Skill: DevOps Engineer Lead

Class Workflow

For the first half of the class we will log into an AWS instance and work with Chef by directly managing the virtual machine
On the virtual CentOS instance we will install the Chef Development Kit (ChefDK) and write code using a command-line text editor, like Vi, Emac or Nano

In the second half of the class we will manage several AWS instances remotely using a Chef Server.
For these exercises we will be using your local machine, where the ChefDK will also be installed. You can use any text editor you prefer for these exercises. I'll be using Vim or Sublime Text throughout the video demos.

Author: Nho Luong
Skill: DevOps Engineer Lead

Connect to your AWS Instance

You will now need to connect to your CentOS VM [instance](#) [Amazon provides doc](#)umentation of how to connect [using a web browser](#) or [with ssh](#)

```
$ ssh -i /path/to/private/key
centos@52.87.191.240
```

Install the Chef Development Kit

From your ssh connection, run the following command to install the ChefDK:

```
$ curl https://omnitruck.chef.io/install.sh | sudo bash -s -- -P chefdk -c stable -v 0.18.30
```

After installing, check that the tools can be found by running:

```
$ chef --version
```

Setup Your Text Editor

We'll be writing code in this class to configure remote machines. Install your text editor of choice.

If you're new to command-line text editors, we recommend trying Nano.

Learn [Vim](#)

```
[vagrant@localhost ~]$ sudo yum install vim -y
```

Learn [Emac](#)s

```
[vagrant@localhost ~]$ sudo yum install emacs -y
```

Learn [Nano](#)

```
[vagrant@localhost ~]$ sudo yum install vim -y
```

Clean Up

To reduce the costs of running [your instances](#), you will need to [stop your VM](#) At the completi[on of this class](#) [you will n](#)eed to [destroy your instances](#)

Author: Nho Luong
Skill: DevOps Engineer Lead

Thank You

Author: Nho Luong
Skill: DevOps Engineer Lead