Setup on AWS CLoud

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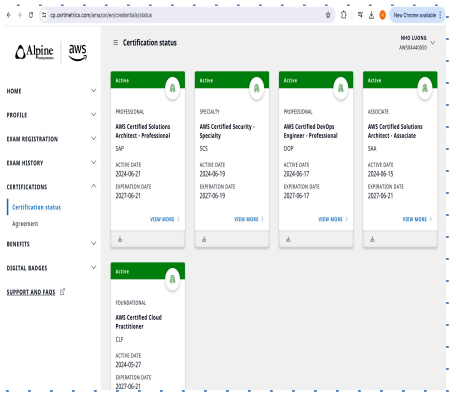

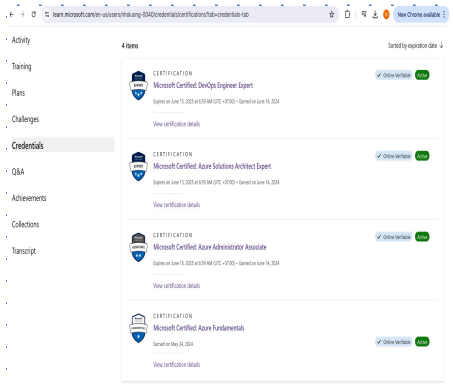

Configure Your Development Environment:

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.

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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

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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 yet you can take advantage of AWS's one-year free account that gives you 750 hours of the t2.micro tier use each month If you are unable to use AWS, you may try using one of the other options offered for this class

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Launch a CentOS 7 Instance

Spin up a CentOS instance on Amazon EC2 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 (https)

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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.

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Connect to your AWS Instance

You will now need to connect to your CentOS VM instance Amazon provides documentation 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
```

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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

```
[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 completion of this class you will need to destroy your instances

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Thank You

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