

# Docker and CI/CD Concepts

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**Due** May 14 by 11:59pm      **Points** 15      **Submitting** a file upload      **File Types** pdf  
**Available** until May 14 at 11:59pm

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This assignment was locked May 14 at 11:59pm.

Dear Students,

Give this lab your best attempt and learn Docker "Container" concepts and very simple CI/CD pipeline with GitHub.

Docker = A container that allows you to virtualize a new operating system on your existing operating system.

C = Continuous

I = Integration

D = Deployment

CI/CD = Continuous Integration/Continuous Deployment

<https://github.com/BalmaBrian/git-started>    [\\_ \(https://github.com/BalmaBrian/git-started\)](https://github.com/BalmaBrian/git-started)

Submit a PDF of screen shots.

NOTE: Do you have Docker already installed before starting on your lab?

IF YOU DO NOT ALREADY HAVE DOCKER ON YOUR LAPTOP THEN FOLLOW THESE INSTRUCTIONS FROM SACSTATE ECS SUPPORT:

In case you do not have Docker already installed and working on your laptop, then follow these instructions.

INSTRUCTIONS FROM SACSTATE ECS SUPPORT:

I have completed the VMware VM for your class. The following link is a direct link to download the VM which is in a zip folder. Please note that people with existing access can use the link.

<https://mysacstate.sharepoint.com/:u:/r/sites/ecs/Shared%20Documents/Docker%20VM/Ubuntu%2064-bit.zip?csf=1&web=1&e=qN4NQx>

This Ubuntu VM is fully updated and has Docker, AWS CLI 2, & VScode installed. Docker has been tested while the AWS CLI is operational and just needs students to link their AWS account to the tool. VScode was installed out of convenience and we recommend using the "Remote Development using SSH" tools on VScode if your students want to use the VScode editor on the VM. Here is a link to setting up and using the "Remote Development using SSH" tool for VScode:

<https://code.visualstudio.com/docs/remote/ssh>

The account created on the VM is called hornet. The following is important information on the user account:

- Username: hornet
- Password: gohornets
- Sudo Password: gohornets

Once you download the zip folder, unzip it. After that to launch the VM in VMware, double click the file called "Ubuntu 64-bit.vmx". We fully recommend to save the unzipped VM in your U-Drive because it is faster to link a U-Drive on a Sassafras system than it is to use OneDrive and redownload the VM every time a student uses a Sassafras machine. U-Drive instructions can be read here:

[code][KB0010301 : How to set up SacFiles \(U Drive\) \(https://csus.service-now.com/kb\\_view.do?sys\\_kb\\_id=da28a357db6a2450921462405b9619bd\)](https://csus.service-now.com/kb_view.do?sys_kb_id=da28a357db6a2450921462405b9619bd)[/code]

Please let us know if you need further assistance with the VM in addition to letting us know how the VM works for you,

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Best,

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Jagan