

11.4 - Cloud 4

Class Preparation

1. Check into BCS
2. Update your git repository with ``git pull``
3. Launch/login to your **PERSONAL** Azure Portal
4. Start your 3 VMs if they're not already running

Homeworks Due

- Unit 10 (Network Security): due Sunday December 13
- Unit 11 (Cloud): due Sunday December 20

Upcoming Units

- Week 12: Project Week (12/14 - 12/19)
- Week 13: Cryptography (1/04 - 1/09)

Schedule Notes

Project 1 (Individual; Required)

- Mon 12/14 - Sat 12/19

Winter Break - No Class

- Last class on Sat 12/19
- Off: Mon 12/21 - Sat 1/02
- Return on Monday 1/04

Schedule Change

- Crypto delayed until after Winter Break

Cloud So Far

So far, we've accomplished the following:

01

Created a virtual network.

02

Protected the network with a firewall and completed several firewall rules.

03

Deployed a jump box to the network.

04

Deployed two identical VMs to the network.

05

Used Docker containers to run a website and Ansible.

06

Used Ansible to configure their VMs with code (infrastructure as code).

07

Configured a load balancer to distribute traffic among the VMs.



Next class, we will begin our **project week**, in which we will add monitoring to our virtual machine set up.

Next week:

In the project week, you will get hands-on experience setting up a monitoring system in the cloud.

We will continue to use the configurations you've done so far, so make sure not to delete or remove anything.

You need to have everything completed through the last Wednesday activity to be able to do the project



Today's Work

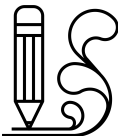
For those of you who have completed all activities through Wednesday evening and have validated you can access your DVWA website from your home machine:

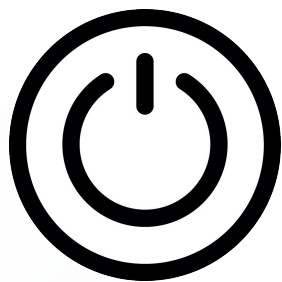
1. Redundancy Activity (01_Redundancy)
2. Redundancy Testing Activity (03_Redundancy_Testing) - Optional but Beneficial

For those of you who have not completed all Azure activities to-date yet:

1. Complete all activities through Wednesday night and validate you can access your DVWA website from your home machine
2. Redundancy Activity (01_Redundancy) - if you have time

The *Redundancy Activity* is a good overview of all tasks we've learned about, so even if you don't have time to complete today it is very good practice. Completing this activity is not needed to be ready for next week's project.





Don't forget to power off your machines!