Testing Redundant Systems

Cybersecurity

Cloud Security Day 4

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Today we will verify redundancy by turning off one or more virtual machines used in the infrastructure.

Testing Redundant Systems

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.

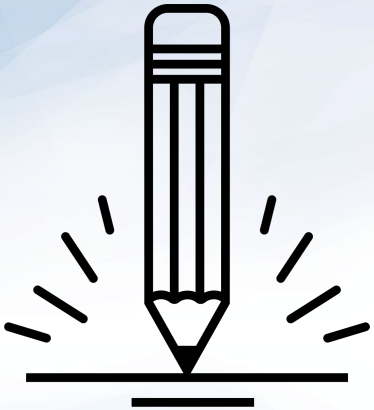
04 Deployed two identical VMs to the network.

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.

In the next activity, you'll stop one VM and check whether or not you still have access to the site.



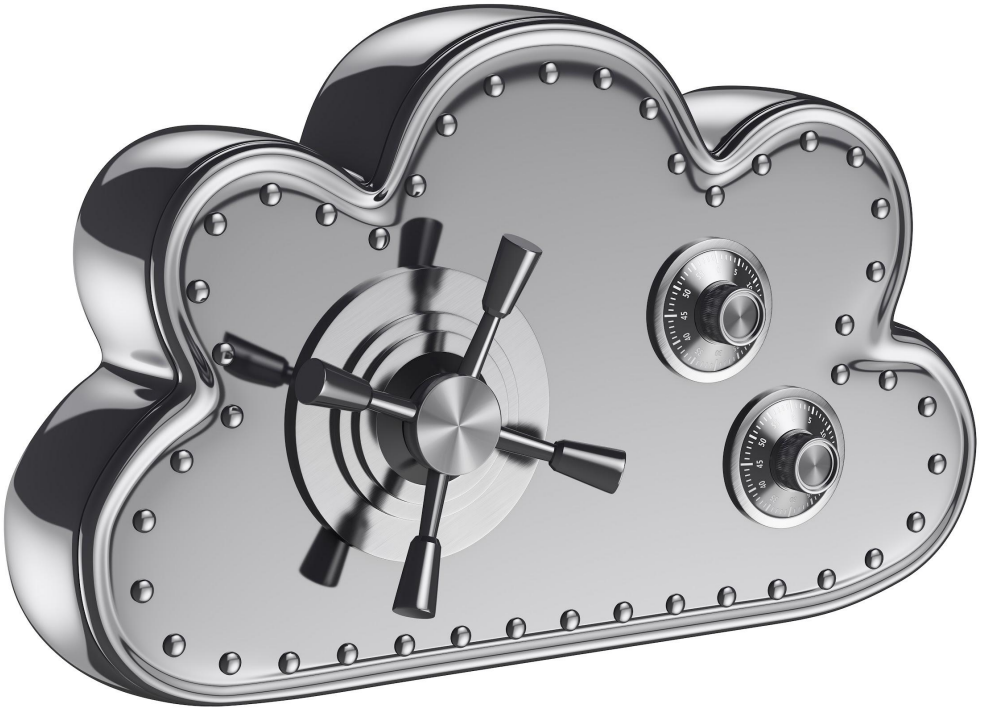
Activity: Redundancy Testing

In this activity, you will add your latest VM to the backend pool for your load balancer and test if the website continues working if one of your VMs has a problem.

Suggested Time:
20 Minutes

Time’s Up! Let’s Review.

That concludes our week on cloud security.



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.

Next week:

While we can complete this project with the single machine we set up in the previous classes, it will be much more interesting and realistic to set up monitoring for multiple machines.


The End