Project File: Cloud Security

Background

- During the last week, you created a highly available web server for XCorp's Red Team to use for testing and training.

- Your lead cloud administrator has asked for a diagram of the Network you created to keep for documentation and company records.

- Your task: Use draw.io to create a detailed diagram of your cloud infrastructure.

Cloud Recap

When you're finished completing all the activities in cloud week, you should have:

- A total of 3 VMs running DVWA.

- All 3 VMs receiving traffic from your load balancer.

If you did not setup the 3rd (optional) VM, you should have:

- A total of 2 VMs running DVWA

- Both VMs receiving traffic from your load balancer.

You can complete this homework with either 2 or 3 VMs.

Your Goal

When you are finished with this assignment, you should have a network diagram that shows your entire cloud setup, including your Ansible jump box and the Docker containers running on each VM.

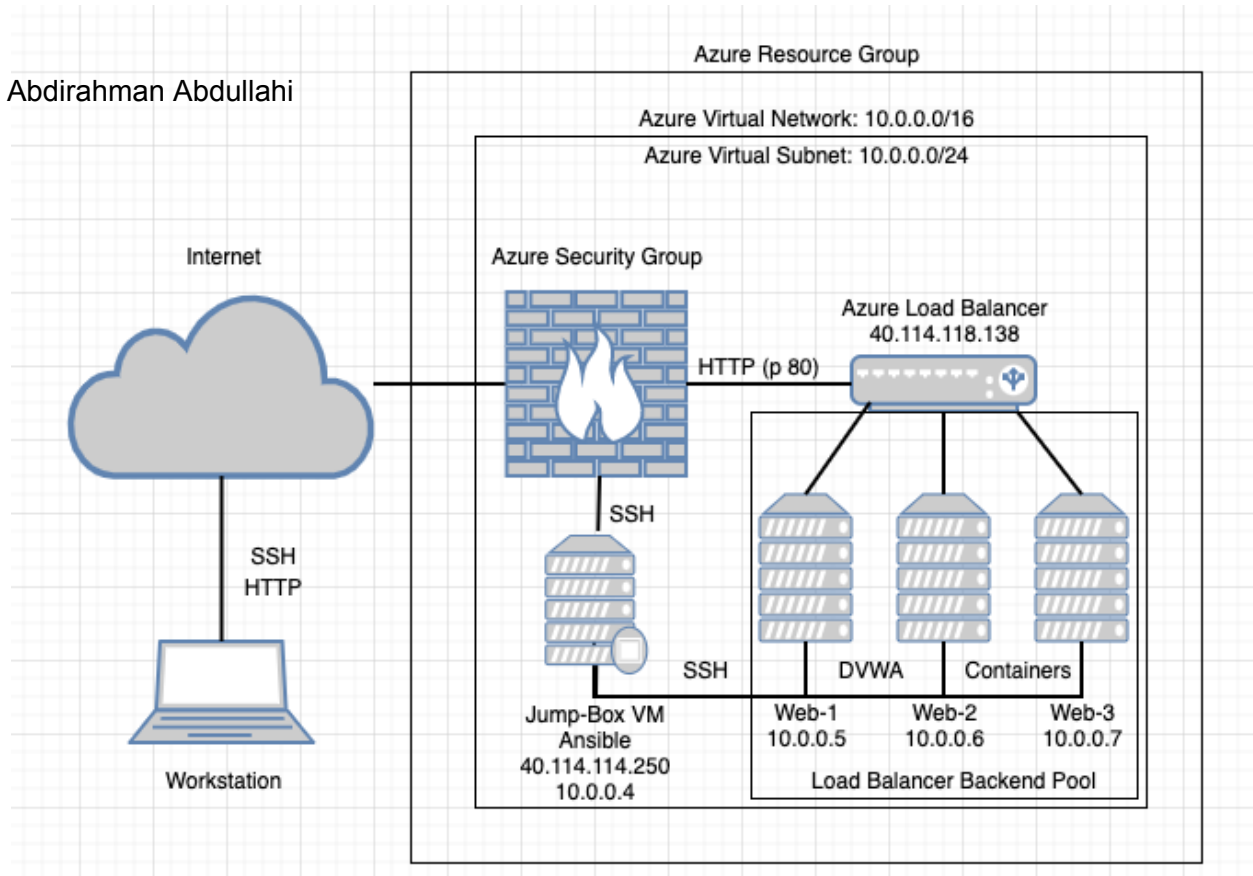This document can be used as part of a portfolio to demonstrate your ability.

Instructions

Use a free account at draw.io to diagram the entire cloud network you have created.

- Your diagram should show the following:

- Azure resource group
- Virtual network with IP address range
- Subnet range
- Flow of specific traffic (e.g., HTTP, SSH)
- Security group blocking traffic
- Load balancer
- All 4 VMs that you have launched
- Where Docker and Ansible are deployed

Azure Resource Group

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Azure Virtual Network: 10.0.0.0/16

Azure Virtual Subnet: 10.0.0.0/24

Internet

Azure Security Group

Azure Load Balancer
40.114.118.138

HTTP (p 80)

SSH

SSH
HTTP

SSH

DVWA   Containers

Jump-Box VM
Ansible
40.114.114.250
10.0.0.4

Web-1   Web-2   Web-3
10.0.0.5   10.0.0.6   10.0.0.7

Load Balancer Backend Pool

Workstation

The diagram above shows.
Azure resource group Virtual network with IP address range Subnet range Flow of specific traffic (e.g., HTTP, SSH) Security group blocking traffic Load balancer All 4 VMs that I have launched Where Docker and Ansible are deployed.