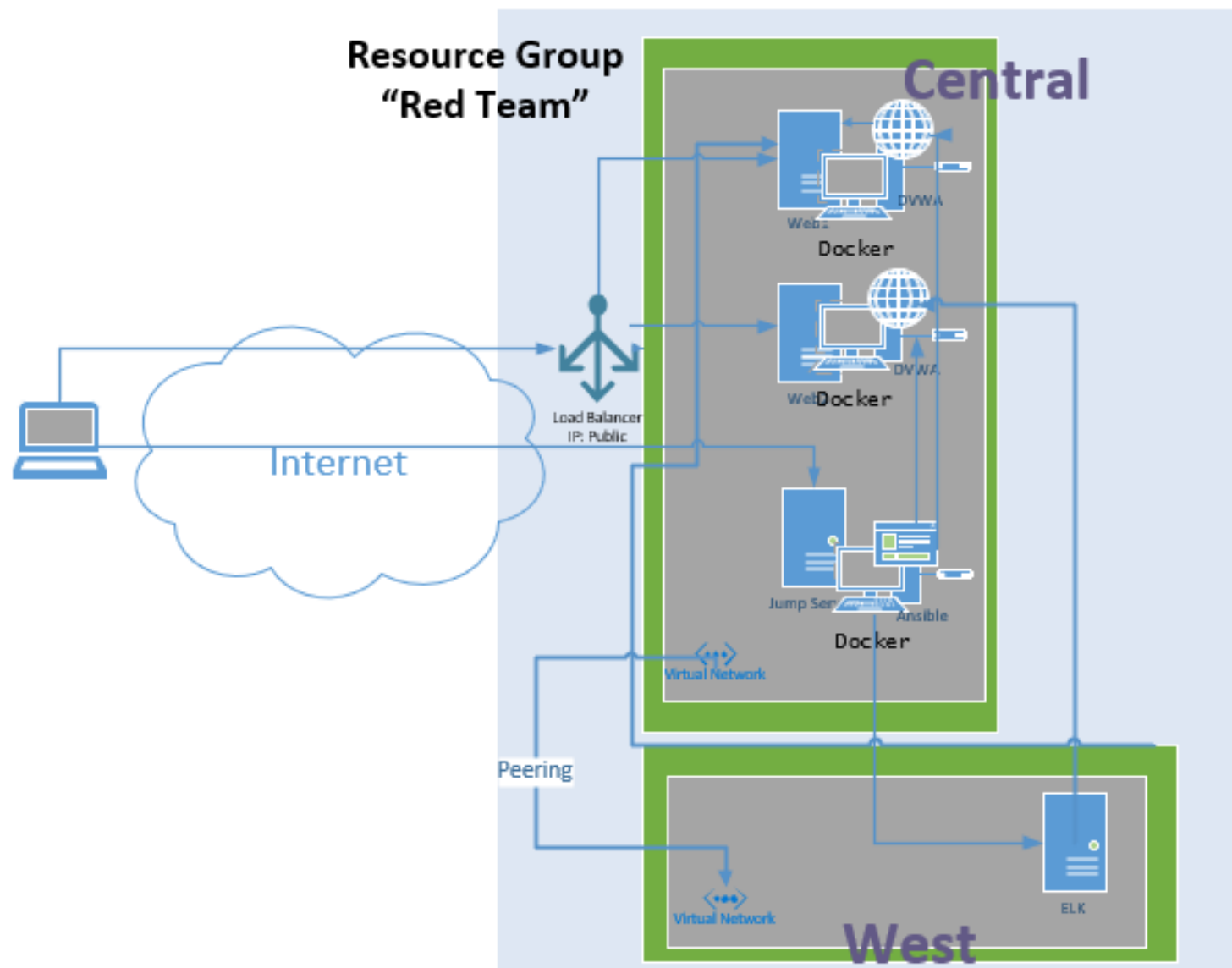


ELK Project

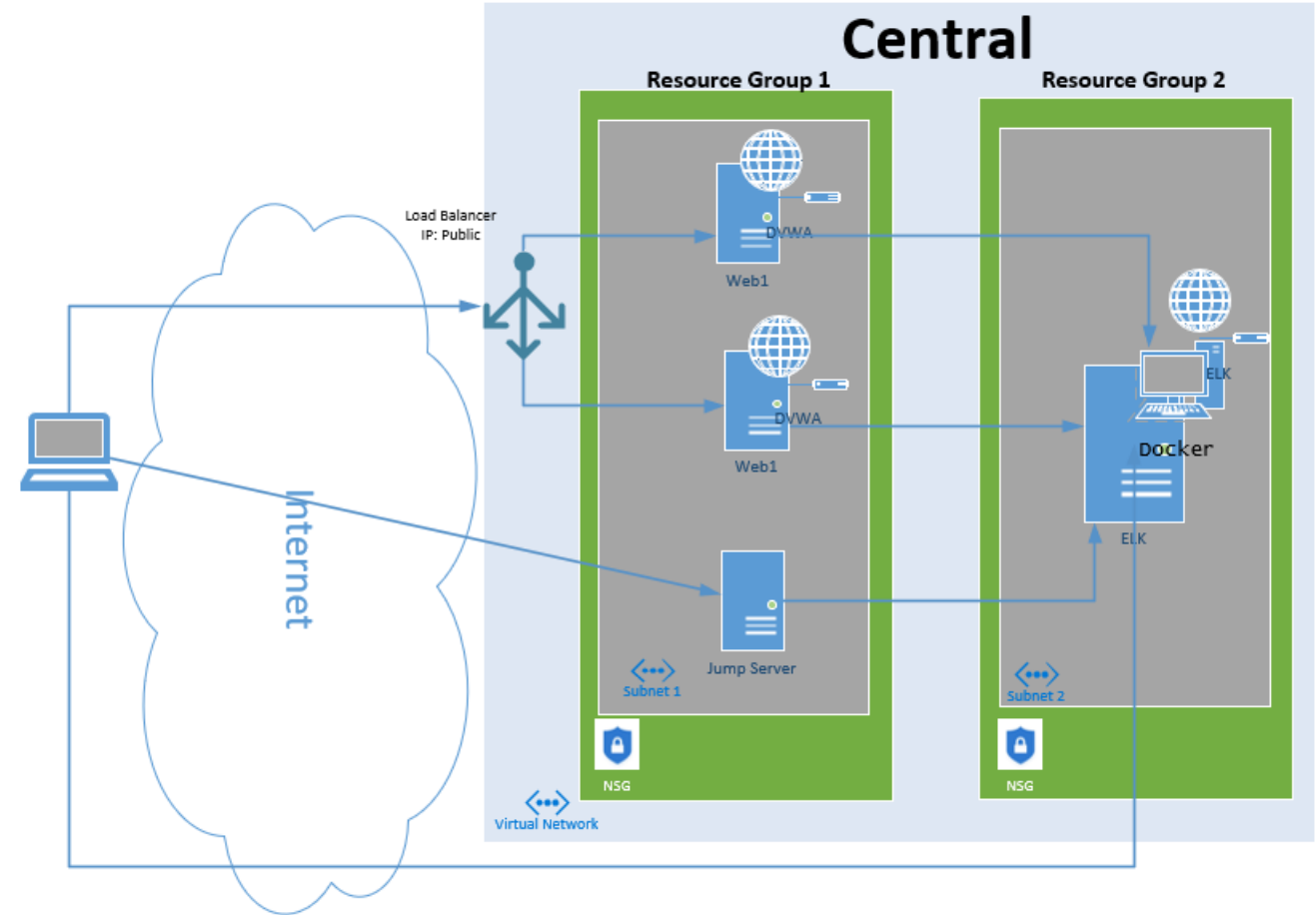


Day 1
Start

Original Project



New Project



Check DVWA!

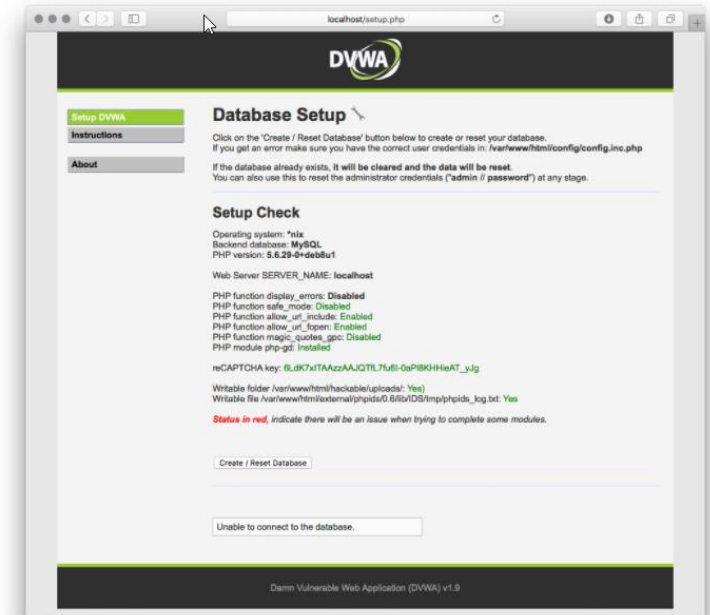
Before You Continue Building



DVWA Check

1. Browse to your newly built DVWA Solution
2. Log in using the instructions below and set the difficulty level

machine:

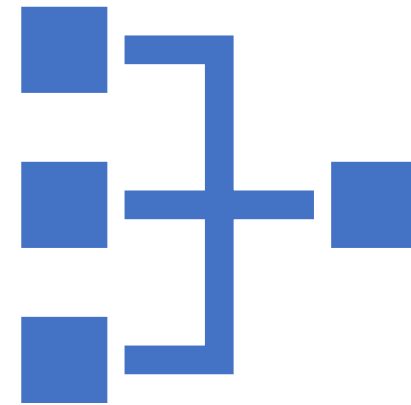


Just click on the 'Create / Reset database' button and it will generate any additional configuration needed.

Login with default credentials

<https://hub.docker.com/r/vulnerables/web-dvwa>

1. Create New Resource Group
2. Create New Subnet in Existing Virtual Network
3. Create New NSG w/ Deny(s)
4. Associate NSG to Subnet

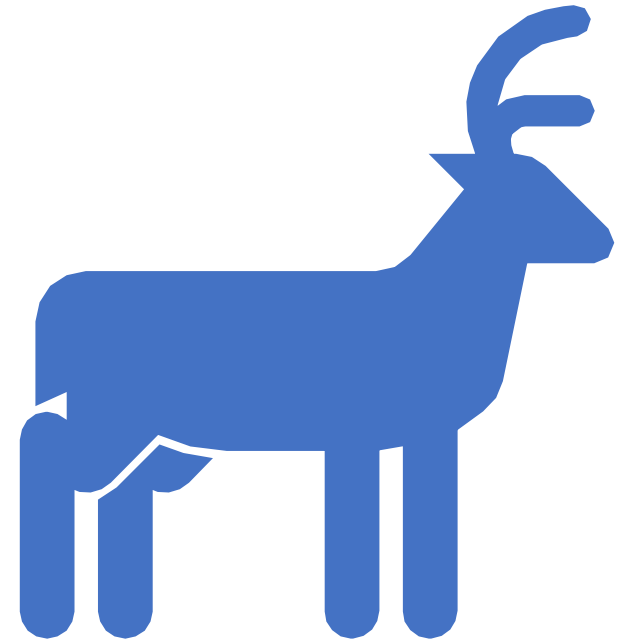


Build a New Virtual Machine

- Create a new VM
 1. Within the new Resource Group
 2. Name it Elk
 3. Ubuntu
 4. B Size – 2 CPU and 4 GB mem
 5. With public IP

Connect and Configure

1. Allow SSH access from the Jumpbox to the new Elk Server
2. Connect to the Elk server from the jumpbox over SSH
3. Run the Elk Bash Script



Connect and Logon



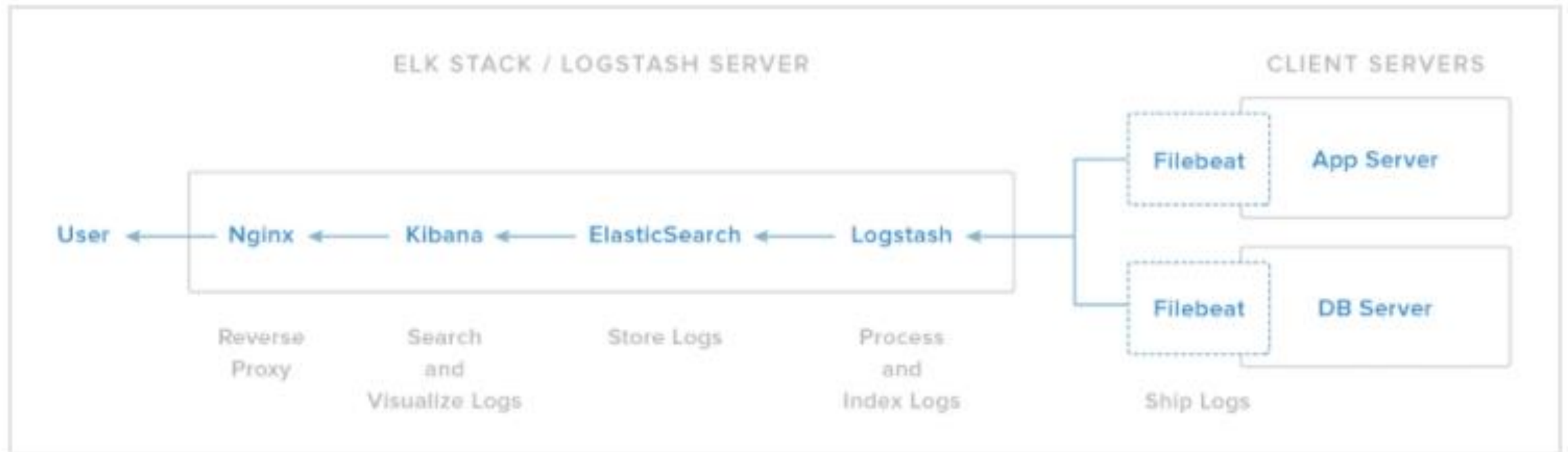
1. Allow access to Elk over TCP 5601 from your home network
2. Browse to http://Your_IP:5601/app/kibana
3. Login to change the default password

Day 1
Complete



Day 2 Start

Push Logs from Web Servers to ELK



FileBeat Installation and Configuration

1. SSH into the Web Server through the Jumpbox
2. Execute the FileBeat Script
3. Update the Config File at /etc/filebeat/filebeat.yml
4. Scroll to line #1106 and replace the IP address with the IP address of your ELK machine.
5. Next, Update the Password.

```
output.elasticsearch:  
hosts: ["10.1.0.4:9200"]  
username: "elastic"  
password: "changeme"
```

6. Scroll to line #1806 and replace the IP address with the IP address of your ELK machine.

```
setup.kibana:  
host: "10.1.0.4:5601"
```

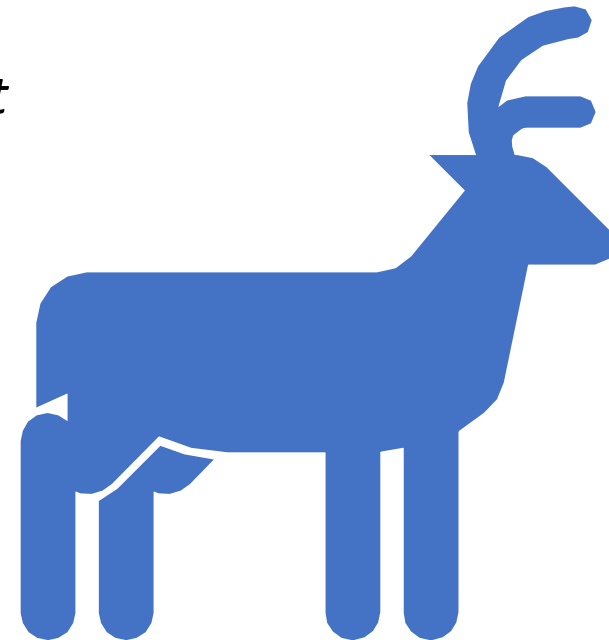
Open Needed Ports

1. Open the needed port from Web Servers to ELK 9200
2. *After, Start the Filebeat on the Web Server*

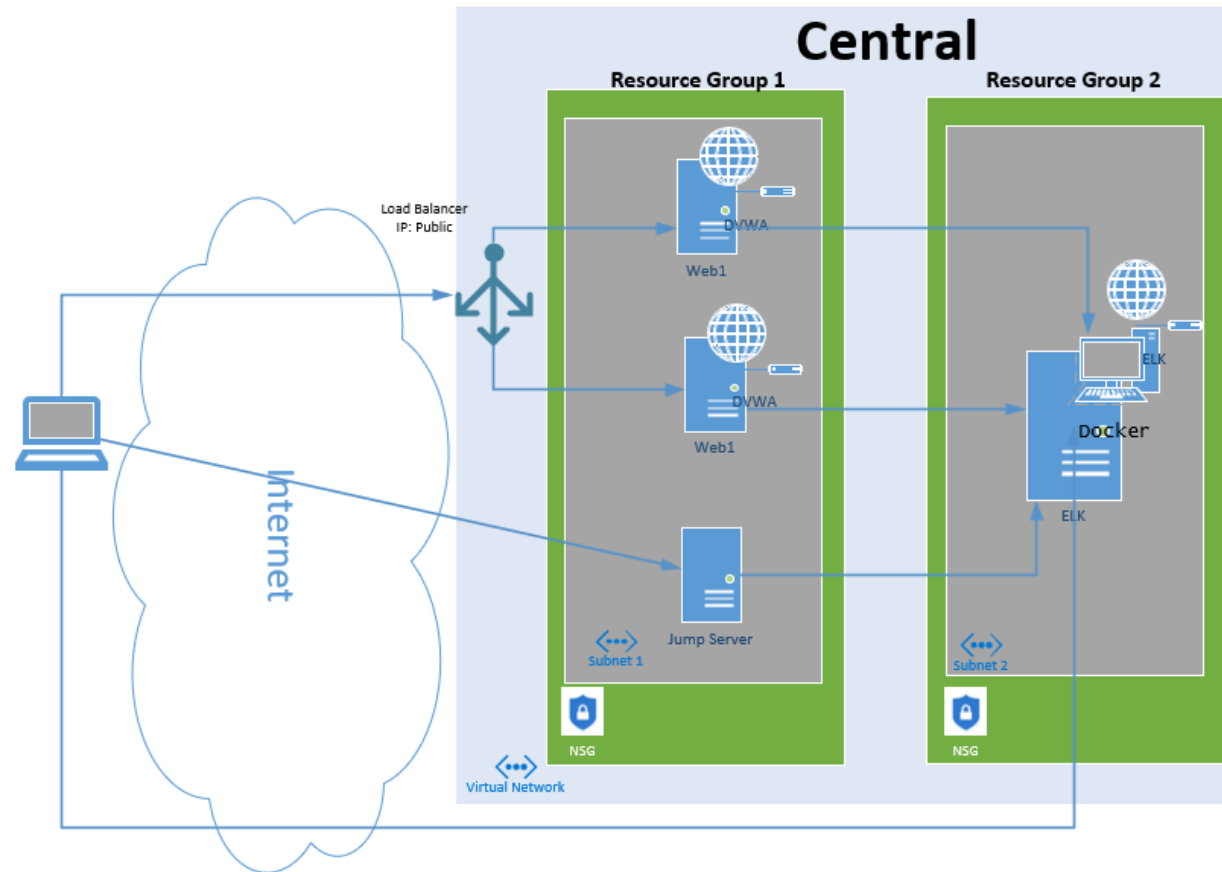
filebeat modules enable system

filebeat setup

service filebeat start



Final Elk Project



Day 2
End

Day 3
Start

Home Work

- Create a Github Repository -
https://www.youtube.com/watch?v=XtCcoMd6U_4
- Upload your scripts
- Create a Network Diagram and Upload it

Submit

- Word Document Including
 - Explain what you learned (two or more paragraphs)
 - Link to your Github Repository

Day 3
End