Lab 1 – Docker Introduction

Task – Install and set up Docker

Prerequisites:

- An Ubuntu 20.04 VM

Steps:

1) Connect to the provided Ubuntu 20.04 Virtual Machine.

2) Enter the below into the terminal:

```
sudo apt update
sudo apt install -y curl
curl https://get.docker.com | sudo bash
sudo usermod -aG docker $(whoami)
```

Note: This is the most convenient way to install Docker, however curling random scripts from the internet and piping them directly into a root shell is questionable from a security perspective. A slightly safer approach would be to curl the script and redirect the contents to a file, which you can then examine to determine whether or not the script is legitimate before executing it.

3) Reboot your terminal with 'sudo reboot', closing the terminal then opening a new one – this will begin a new session, causing the group assignment we performed to take effect.

4) Run the command 'docker run -d -p 127.0.0.1:80:80 --name nginx nginx:alpine' to launch your first container.

5) Run 'curl http://localhost' - you should see an output similar to this:

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light-dark; }
body { width: 35em; margin: 0 auto; font-family: Tahoma, Verdana, Arial,
sans-serif; }
</style> …
```

6) Clean up: 'docker stop nginx && docker rm nginx; docker rmi nginx:alpine'.