

DNS in a Box Lab

Due by midnight October 21, 2021

20 points

Lab Instructions

The lab manual can be obtained by visiting the Seed Labs site

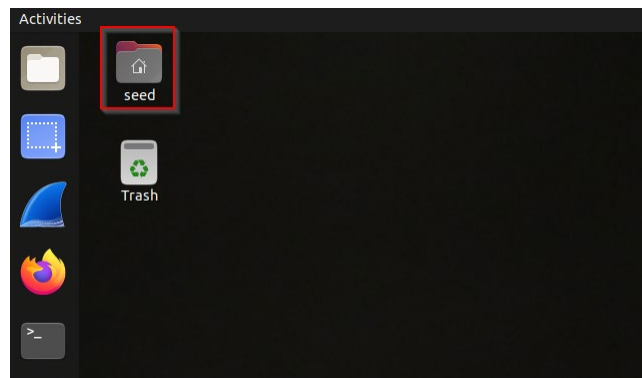
https://seedsecuritylabs.org/Labs_20.04/Networking/DNS/DNS_in_a_Box. Click Tasks (PDF).



- **VM version:** This lab has been tested on our [SEED Ubuntu-20.04 VM](#)
- **Lab setup files:** [Labsetup.zip](#)
- **Manual:** [Docker manual](#)

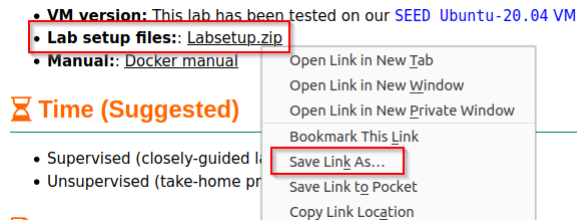
You are required to complete all the tasks in the lab manual. Below are some additional instructions and details that are not included in the original lab manual.

1. Inside the Ubuntu 20.04 VM, Click the seed folder.

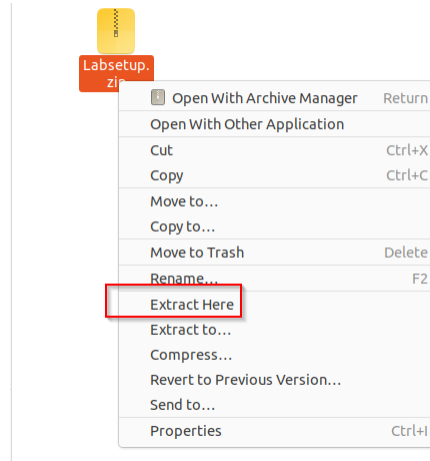


Inside the seed folder, you should already have the **Lab** folder created in Lab 1. Double click the Lab folder. Right click the mouse and choose New Folder. Give a name to the new folder you just created. In my case, I named the folder **DNS**.

2. Bring up the Firefox in Ubuntu 20.04 and surf to the lab's website (https://seedsecuritylabs.org/Labs_20.04/Networking/DNS/DNS_in_a_Box). Right click on the **Lab setup files: Labsetup.zip**. In the pop up window, choose **Save Link As...** to save the Labsetup.zip file to the DNS folder you just created.



Double click the DNS folder to open it. You should see the Labsetup.zip file you just downloaded. Right click on the zip file and choose **Extract Here**.



Bring up a terminal in Ubuntu 20.04 VM and change directory to Labsetup by typing

\$ cd Lab/DNS/Labsetup

We are now ready to build lab environment using docker containers. Make sure that you must execute the docker-compose commands within the Labsetup folder. First run **dcbuild** then **dcup** to bring up the containers.

3. Once you finish the lab, inside the **Labsetup** folder, issue **dcdown** to stop and remove the containers.

```
[07/17/21]seed@VM:~/.../Labsetup$ dcdowndown
Stopping host-10.9.0.5 ... done
Stopping seed-attacker ... done
Removing host-10.9.0.5 ... done
Removing seed-attacker ... done
Removing network net-10.9.0.0
[07/17/21]seed@VM:~/.../Labsetup$
```

Lab Report

- please include your name and 700# at the beginning of your report
- please upload your report to the Blackboard by the due date
- only word or pdf format is acceptable

1. provide necessary screenshots and explanations for all tasks
2. Create a folder and name it your last name, first name, and lab number. For example, John_Doe_Lab_7. This is where you will save your lab report and other supporting documents.

When the lab is completed, zip (compress) this folder and submit it on the blackboard in the Lab 7 Report link

3. The zipped folder should include
 - A lab report with the screenshots
 - The zipped Labsetup file with the completed configuration and zone files