LAB: web server (HTTP)

Lab Environment:

The workshop wifi:

SSID: workshop

PASS: iij/2497

Hosts - Virtual machines (Ubuntu16.04LTS/LXC):

Hostname: webXX.local

IPv6: fd00:2497:1::1:XX

Note: XX is your group id

For group1: web01.local and fd00:2497:1::1:1

For group10: web10.local and fd00:2497:1::1:10

username: workshop

password: iij/2497

Objective: To make your www site accessible with the following hostname:

www.groupXX.local

Note: XX is your gourp id

For group1: www.group01.local

For group10: www.group10.local for group10

Install and configure apache2:

ssh to your wwwXX host, and install apache2. If your client PC does not support IPv6, ssh your nsXX host first, then ssh to your wwwXX host.

$ sudo apt install apache2

Note: sudo password is iij/2497

Now it should be accessible from your client PC. If your client PC does not support IPv6, ask your neighbor to access your URL. Open the following URL.

http://webXX.local/

Check your apache2 log file to see the access.

$ sudo less /var/log/apache2/access.log

Modify the index.html file as you like

$ sudo vi /var/www/html/index.html

Add additional AAAA record for the www service:

ssh to your nsXX host and add the following record at the bottom of your zone file on your nsXX host.

www.groupXX.local. IN AAAA fd00:2497:1::1:XX

Let bind9 reload the zone file on your nsXX host.

$ sudo rndc reload groupXX.local

ping your host by using the hostname.

$ ping6 www.groupXX.local

Now it should be accessible from your client PC with the following URL. If your client PC does not support IPv6, ask your neighbor to access your URL.

You should be able to get the same contents as http://webXX.local/.

http://www.groupXX.local/

Check your apache2 log file to see your IPv6 connections.

$ sudo less /var/log/apache2/access.log