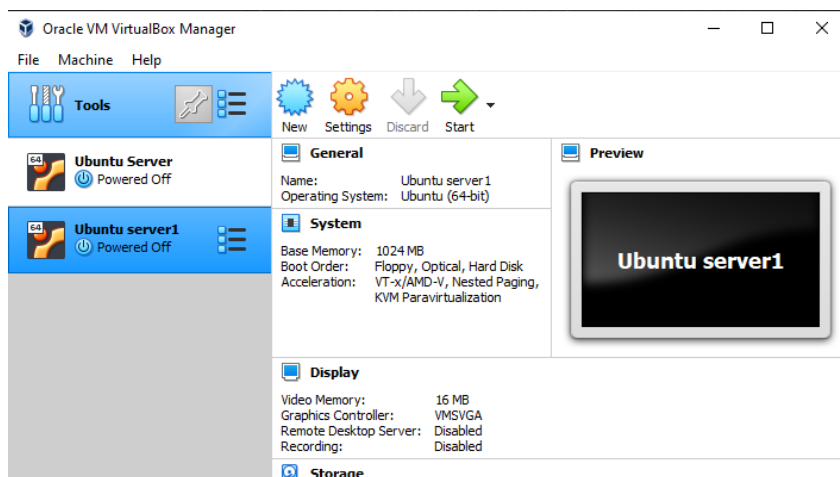
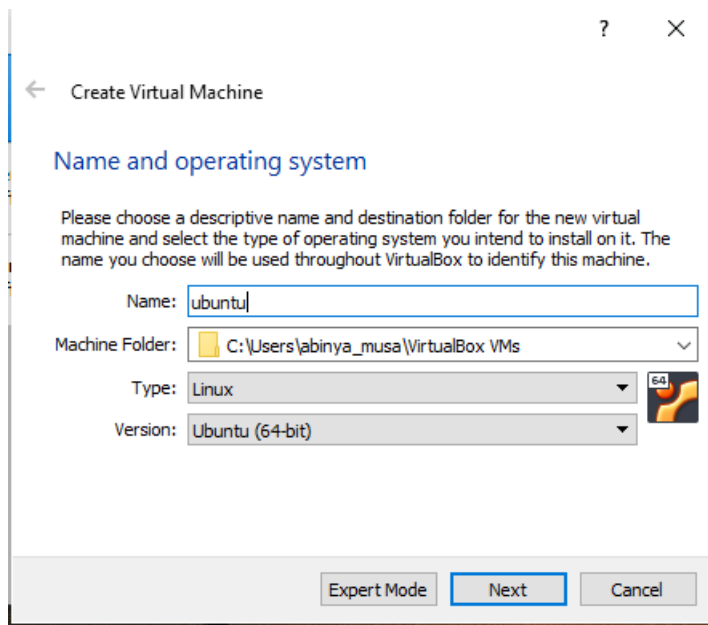


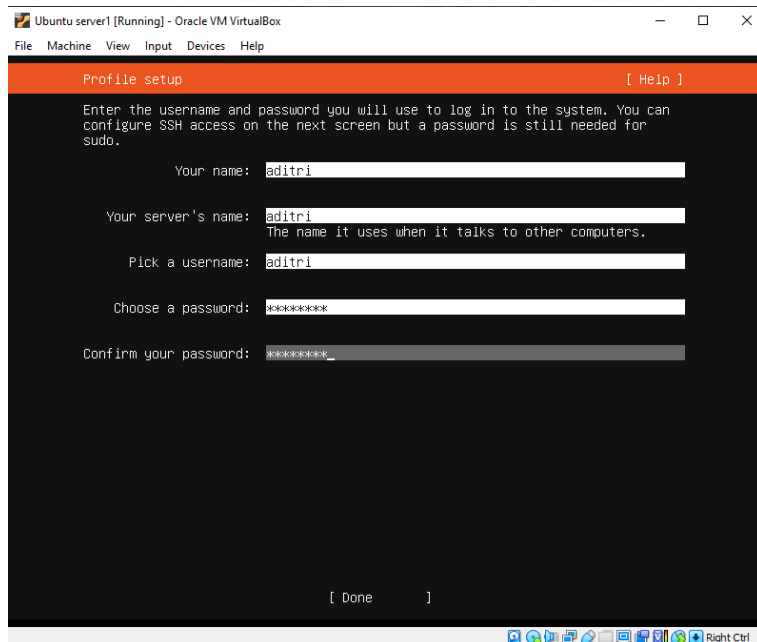
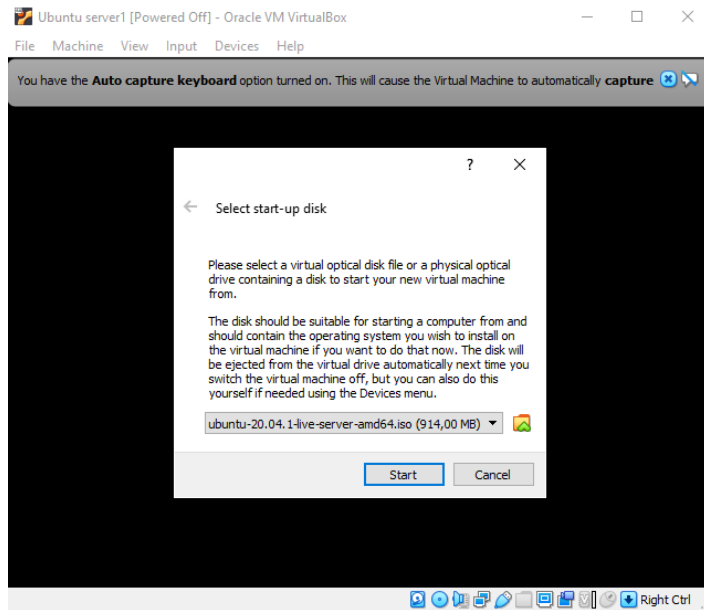
Nama : Muhammad Adi Tri husodo

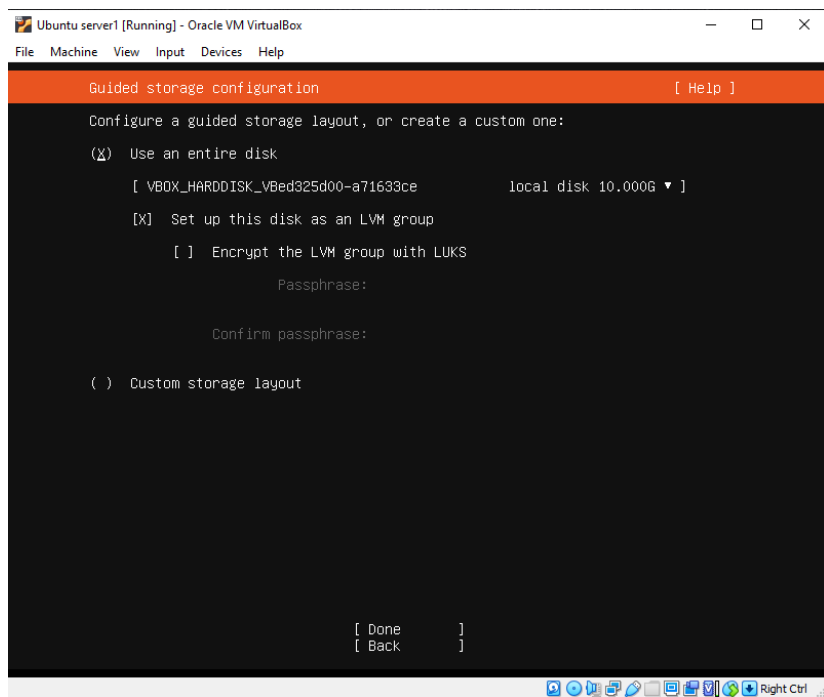
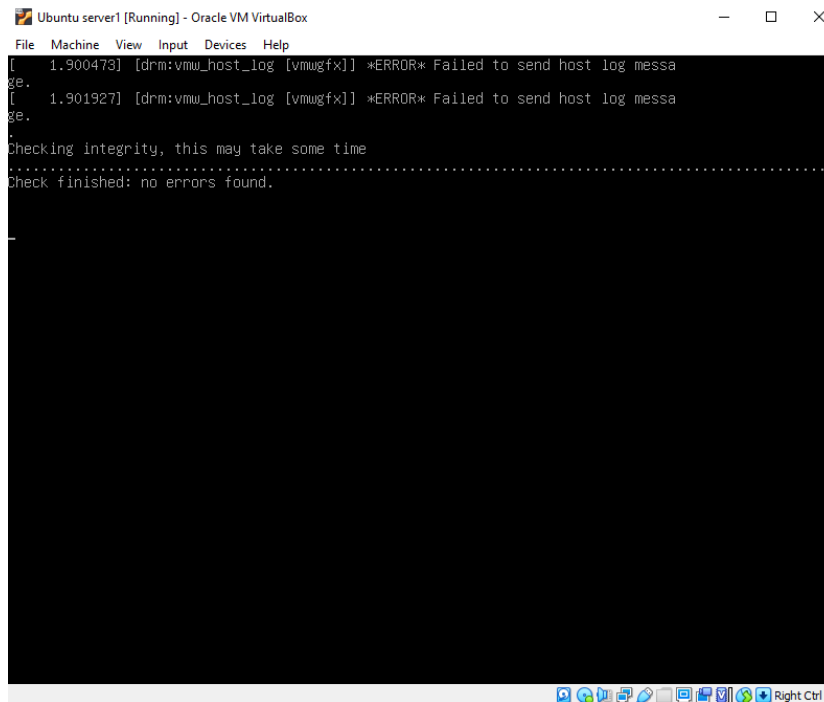
Nim : 09011282025033

Mata Kuliah : Pengantar Telekomunikasi

INSTALL







```
Ubuntu server1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Installing system [ Help ]

installing system
  curtin command install
  preparing for installation
  configuring storage
    running 'curtin block-meta simple'
    curtin command block-meta
      removing previous storage devices
      configuring disk: disk-sda
      configuring partition: partition-2
      configuring partition: partition-3
      configuring format: format-1
      configuring mount: mount-1
  writing install sources to disk
  running 'curtin extract'
  curtin command extract
    acquiring and extracting image from cp:///media/filesystem
  configuring installed system
    running '/snap/bin/subiquity.subiquity-configure-run'
    running '/snap/bin/subiquity.subiquity-configure-apt'
  /snap/subiquity/1966/usr/bin/python3 true'
  curtin command apt-config
  curtin command in-target -

[ View full log ]
```

```
Ubuntu server1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

aditri login:
aditri login:
aditri login:
aditri login: aditri
Password:

Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-54-generic x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Mon 30 Nov 2020 04:53:58 PM UTC

System load:  0.27          Processes:           97
Usage of /:   42.8% of 9.78GB Users logged in:          0
Memory usage: 18%          IPv4 address for enp0s3: 10.0.2.15
Swap usage:   0%

95 updates can be installed immediately.
20 of these updates are security updates.
To see these additional updates run: apt list --upgradable

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

aditri@aditri:~$
aditri@aditri:~$
```

KONFIGURASI SSH

```
aditri@aditri: ~  
Are you sure you want to continue connecting (yes/no)? y  
Please type 'yes' or 'no': y  
Please type 'yes' or 'no': y  
Please type 'yes' or 'no': yes  
Warning: Permanently added '192.168.88.15' (ECDSA) to the list of known hosts.  
aditri@192.168.88.15's password:  
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-54-generic x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:        https://ubuntu.com/advantage  
  
System information as of Mon 30 Nov 2020 05:04:37 PM UTC  
  
System load:  0.04      Processes:           102  
Usage of /:   43.2% of 9.78GB   Users logged in:     1  
Memory usage: 20%        IPv4 address for enp0s3: 192.168.88.15  
Swap usage:   0%  
  
93 updates can be installed immediately.  
18 of these updates are security updates.  
To see these additional updates run: apt list --upgradable  
  
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings  
  
Last login: Mon Nov 30 17:00:39 2020  
aditri@aditri:~$  
  
aditri@aditri: ~  
Are you sure you want to continue connecting (yes/no)? y  
Please type 'yes' or 'no': y  
Please type 'yes' or 'no': y  
Please type 'yes' or 'no': yes  
Warning: Permanently added '192.168.88.15' (ECDSA) to the list of known hosts.  
aditri@192.168.88.15's password:  
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-54-generic x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:        https://ubuntu.com/advantage  
  
System information as of Mon 30 Nov 2020 05:04:37 PM UTC  
  
System load:  0.04      Processes:           102  
Usage of /:   43.2% of 9.78GB   Users logged in:     1  
Memory usage: 20%        IPv4 address for enp0s3: 192.168.88.15  
Swap usage:   0%  
  
93 updates can be installed immediately.  
18 of these updates are security updates.  
To see these additional updates run: apt list --upgradable  
  
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings  
  
Last login: Mon Nov 30 17:00:39 2020  
aditri@aditri:~$ sudo apt update  
  
Reading state information... Done  
The following NEW packages will be installed:  
  net-tools  
0 upgraded, 1 newly installed, 0 to remove and 90 not upgraded.  
Need to get 196 kB of archives.  
After this operation, 864 kB of additional disk space will be used.  
Get:1 http://id.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20190115-1 [196 kB]  
Fetched 196 kB in 15s (12.8 kB/s)  
Selecting previously unselected package net-tools.  
(Reading database ... 70894 files and directories currently installed.)  
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...  
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...  
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...  
Processing triggers for man-db (2.9.1-1) ...  
  
aditri@aditri:~$  
aditri@aditri:~$ ifconfig  
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500  
    inet 192.168.88.15  netmask 255.255.255.0  broadcast 192.168.88.255  
    inet6 fe80::a00:27ff:fe59:a45a  prefixlen 64  scopeid 0x20<link>  
    ether 08:00:27:59:a4:5a  txqueuelen 1000  (Ethernet)  
    RX packets 756  bytes 1007345 (1.0 MB)  
    RX errors 0  dropped 0  overruns 0  frame 0  
    TX packets 505  bytes 53820 (53.8 KB)  
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536  
    inet 127.0.0.1  netmask 255.0.0.0  
    inet6 ::1  prefixlen 128  scopeid 0x10<host>  
    loop txqueuelen 1000  (Local Loopback)  
    RX packets 110  bytes 9810 (9.8 KB)  
    RX errors 0  dropped 0  overruns 0  frame 0  
    TX packets 110  bytes 9810 (9.8 KB)  
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0  
  
aditri@aditri:~$
```

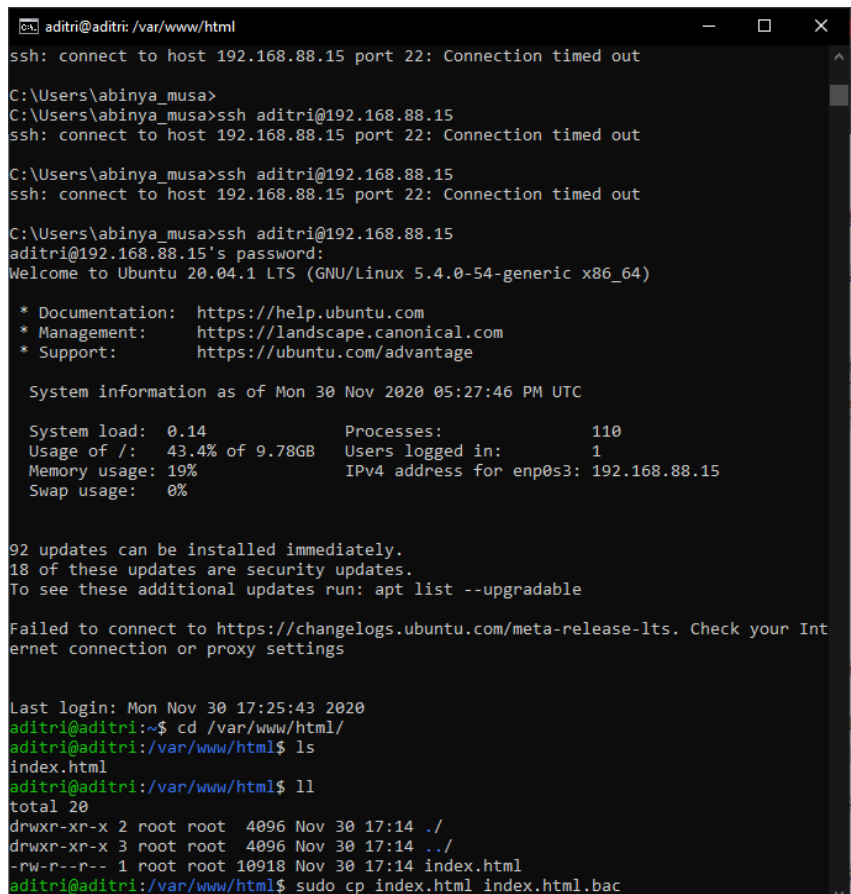
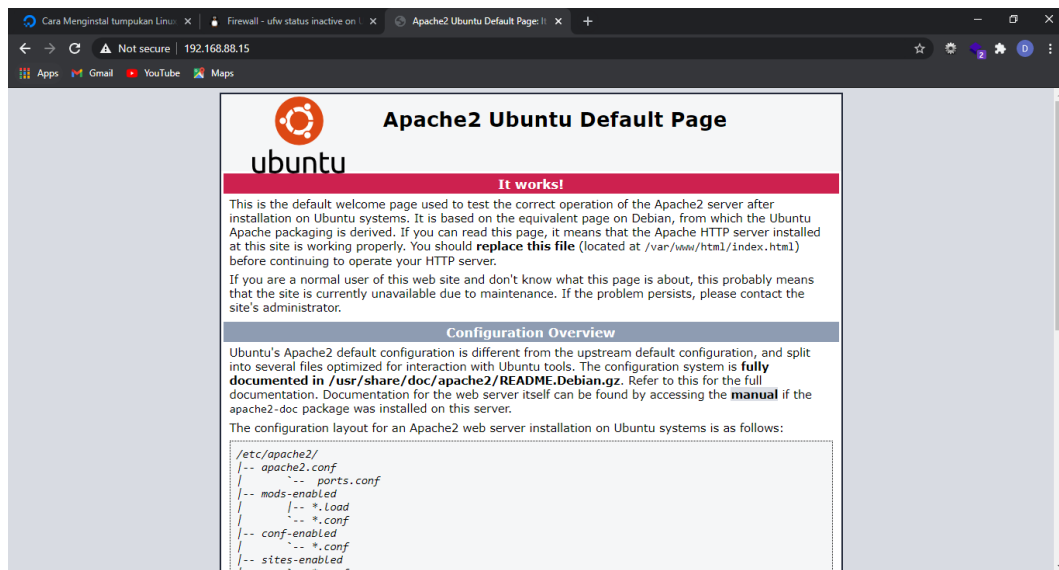
KONFIGURASI FIREWALL

```
aditri@aditri: ~  
Setting up apache2-bin (2.4.41-4ubuntu3.1) ...  
Setting up apache2 (2.4.41-4ubuntu3.1) ...  
Enabling module mpm_event.  
Enabling module authz_core.  
Enabling module authz_host.  
Enabling module authn_core.  
Enabling module auth_basic.  
Enabling module access_compat.  
Enabling module authn_file.  
Enabling module authz_user.  
Enabling module alias.  
Enabling module dir.  
Enabling module autoindex.  
Enabling module env.  
Enabling module mime.  
Enabling module negotiation.  
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/  
systemd/system/apache2.service.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.ser  
vice → /lib/systemd/system/apache-htcacheclean.service.  
invoke-rc.d: policy-rc.d denied execution of start.  
Processing triggers for ufw (0.36-6) ...  
Processing triggers for systemd (245.4-4ubuntu3.2) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9) ...  
aditri@aditri:~$ sudo ufw app list  
Available applications:  
  Apache  
  Apache Full  
  Apache Secure  
  OpenSSH  
aditri@aditri:~$ sudo ufw allow in "apache"
```

```
aditri@aditri: ~  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/  
systemd/system/apache2.service.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.ser  
vice → /lib/systemd/system/apache-htcacheclean.service.  
invoke-rc.d: policy-rc.d denied execution of start.  
Processing triggers for ufw (0.36-6) ...  
Processing triggers for systemd (245.4-4ubuntu3.2) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9) ...  
aditri@aditri:~$ sudo ufw app list  
Available applications:  
  Apache  
  Apache Full  
  Apache Secure  
  OpenSSH  
aditri@aditri:~$ sudo ufw allow in "apache"  
sudo: ufw: command not found  
aditri@aditri:~$ sudo ufw allow in "apache"  
Rules updated  
Rules updated (v6)  
aditri@aditri:~$ sudo ufw status  
Status: inactive  
aditri@aditri:~$ sudo ufw allow in "Apache"  
Skipping adding existing rule  
Skipping adding existing rule (v6)  
aditri@aditri:~$ sudo ufw status  
Status: inactive  
aditri@aditri:~$ sudo ufw enable  
Command may disrupt existing ssh connections. Proceed with operation (y/n)? y  
Firewall is active and enabled on system startup  
aditri@aditri:~$ sudo ufw status  
Status: active  
  
To Action From  
--  
Apache ALLOW Anywhere  
Apache (v6) ALLOW Anywhere (v6)  
  
aditri@aditri:~$ sudo init 6
```

```
Ubuntu server [Running] - Oracle VM VirtualBox  
File Machine View Input Devices Help  
Reading state information... Done  
The following NEW packages will be installed:  
  net-tools  
0 upgraded, 1 newly installed, 0 to remove and 90 not upgraded.  
Need to get 196 kB of archives.  
After this operation, 864 kB of additional disk space will be used.  
Get:1 http://10.0.0.1:8080/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.1-1ubuntu1 [196 kB]  
Fetched 196 kB in 15s (12.8 kB/s)  
Selecting previously unselected package net-tools.  
(Reading database ... 70894 files and directories currently installed.)  
Preparing to unpack .../net-tools.1.60+git20180626.1-1ubuntu1_amd64.deb ...  
Unpacking net-tools (1.60+git20180626.1-1ubuntu1) ...  
Setting up net-tools (1.60+git20180626.1-1ubuntu1) ...  
Processing triggers for man-db (2.9.1-1) ...  
  
aditri@aditri:~$ ifconfig  
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.88.15 netmask 255.255.255.0 broadcast 192.168.88.255  
    inet6 fe80::a00:27ff:fe59:a45a prefixlen 64 scopeid 0x20<link>  
    ether 08:00:27:59:a4:5a txqueuelen 1000 (Ethernet)  
    RX packets 756 bytes 1007945 (1.0 MB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 589 bytes 53800 (53.8 KB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
    inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 1000 (Local Loopback)  
    RX packets 110 bytes 9810 (9.8 KB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 110 bytes 9810 (9.8 KB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
aditri@aditri:~$
```

PEMBUATAN HTTP



```
root@adiri: /var/www/html
GNU nano 4.8 index.html Modified
require(['jquery', 'mod_forum/discussion_list'], function($, View) {
  var root = $('#discussion-list-5fc52c30074e35fc52c2ff8ca85');
  View.init(root);
});
M.util.js_pending('core/log'); require(['core/log'], function(amd) { amd.setConfig(
M.util.js_pending('core/page_global'); require(['core/page_global'], function(amd)
));
});
</script>
<script src="https://elearning.unsri.ac.id/theme/javascript.php/lambda/1604656374">
//[[[CDATA[
M.str = { 'moodle': {'lastmodified': 'last modified', 'name': 'Name', 'error': 'Error', 'l
//]]]
</script>
<script>
(function() { Y.use("moodle-filter_mathjaxloader-loader", function() { M.filter_mathj
});
M.util.help_popups.setup(Y);
Y.use("moodle-core-popuphelp", function() { M.core.init_popuphelp();
});
Y.use("moodle-course-categoryexpander", function() { Y.Moodle.course.categoryexpande
});
M.util.js_pending('random5fc52c2ff8ca86'); Y.on('domready', function() { M.util.js
});
//]]]
</script>
</script>
</body>
</html>
Get Help Write Out Where Is Cut Text Justify Cur Pos
Exit Read File Replace Paste Text To Spell Go To Line
```

```
view-source:https://elearning.unsri.ac.id
<!DOCTYPE html>
<html dir="ltr" lang="en" xml:lang="en">
<head>
<title>E-Learning Sriwijaya University</title>
<link rel="shortcut icon" href="//elearning.unsri.ac.id/pluginfile.php/1/theme_lambd
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="keywords" content="moodle, E-Learning Sriwijaya University" />
<link rel="stylesheet" type="text/css" href="https://elearning.unsri.ac.id/theme/yui_com
</script>
//[[[CDATA[
var M = {}; M.yui = {};
M.pageloadstarttime = new Date();
M.cfg = { 'wwwroot': 'https://elearning.unsri.ac.id', 'sesskey': 'CHr2GczRIA', 'sessi
var yui2ConfigFn = function(me) { var parts=me.name.replace(/"moodle-/,"").split("-");
if(module)(var filename=parts.join("-");me.path=component+"/"+module+"/"+filename+min'.
YUI_config = { 'debug': false, 'base': 'https://elearning.unsri.ac.id/lib/yui/lib/3.17.2
M.yui.loader = { modules: {} };
//]]]
</script>
<meta name="description" content="Elearning Sriwijaya University" />
<meta name="description" content="Elearning Sriwijaya University" />
</script>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<noscript>
<link rel="stylesheet" type="text/css" href="https://elearning.unsri.ac.id/t
</noscript>
<!-- Google web fonts -->
<link href="https://fonts.googleapis.com/css?family=Arvo:400&7COpen+Sans:700" rel="s
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.13.0/css/all.cs
</head>
<body id="page-site-index" class="format-site course path-site chrome dir-ltr lang-en y
<div>
<div class="sr-only sr-only-focusable" href="#maincontent">Skip to main content</div>
</div><script src="https://elearning.unsri.ac.id/lib/javascript.php/1604656375/lib/babel
```

```
root@adiri: /var/www/html
GNU nano 4.8 index.html
<!DOCTYPE html>
<html dir="ltr" lang="en" xml:lang="en">
<head>
<title>E-Learning Sriwijaya University</title>
<link rel="shortcut icon" href="//elearning.unsri.ac.id/pluginfile.php/1/theme_lambd
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="keywords" content="moodle, E-Learning Sriwijaya University" />
<link rel="stylesheet" type="text/css" href="https://elearning.unsri.ac.id/theme/yui_com
</script>
//[[[CDATA[
var M = {}; M.yui = {};
M.pageloadstarttime = new Date();
M.cfg = { 'wwwroot': 'https://elearning.unsri.ac.id', 'sesskey': 'CHr2GczRIA', 'sessi
var yui2ConfigFn = function(me) { var parts=me.name.replace(/"moodle-/,"").split("-");
if(module)(var filename=parts.join("-");me.path=component+"/"+module+"/"+filename+min'.
YUI_config = { 'debug': false, 'base': 'https://elearning.unsri.ac.id/lib/yui/lib/3.17.2
M.yui.loader = { modules: {} };
//]]]
</script>
<meta name="description" content="Elearning Sriwijaya University" />
<meta name="description" content="Elearning Sriwijaya University" />
</script>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<noscript>
<link rel="stylesheet" type="text/css" href="https://elearning.unsri.ac.id/t
</noscript>
<!-- Google web fonts -->
<link href="https://fonts.googleapis.com/css?family=Arvo:400&7COpen+Sans:700" rel="s
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.13.0/css/all.cs
</head>
<body id="page-site-index" class="format-site course path-site chrome dir-ltr lang-en y
Read 921 lines
```

```
Cara Mengirim: X Firewall - ufw: X E-Learning Sri X
192.168.88.15
E-Learning
Universitas Sriwijaya
Username Password
Create new account
Home
Site announcements
```