

Web Server
Troubleshooting Jaringan



Oleh :

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09

XII TKJ 1

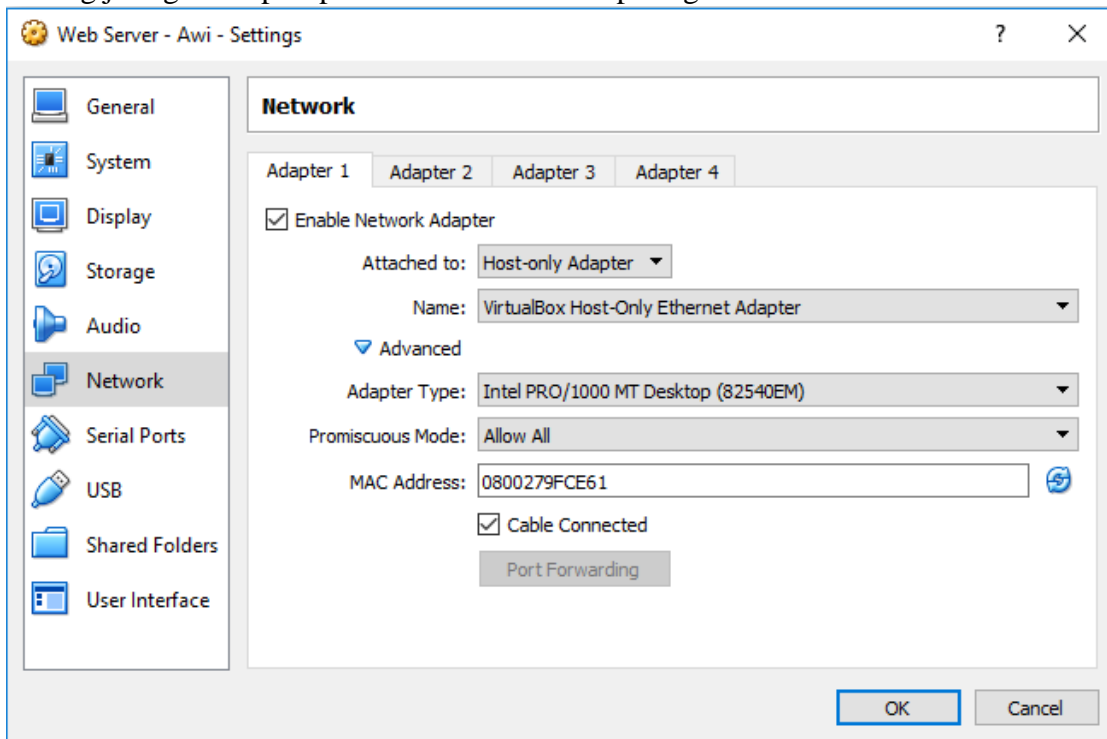
Sekolah Menengah Kejuruan (SMK) Negeri 1

Denpasar

Tahun Ajaran 2017/2018

Langkah – langkah membuat web server

1. Siapkan debian pada mesin Virtual.
2. Setting jaringan adapter pada debian tersebut seperti gambar dibawah.



3. Buka debian, setting IP untuk debian seperti gambar dibawah. Dan lalu restart.

Web Server - Awi [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

GNU nano 2.2.6 File: /etc/network/interfaces Modified

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet static
    address 99.99.99.9
    netmask 255.255.255.0_
```

^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell

Right Ctrl

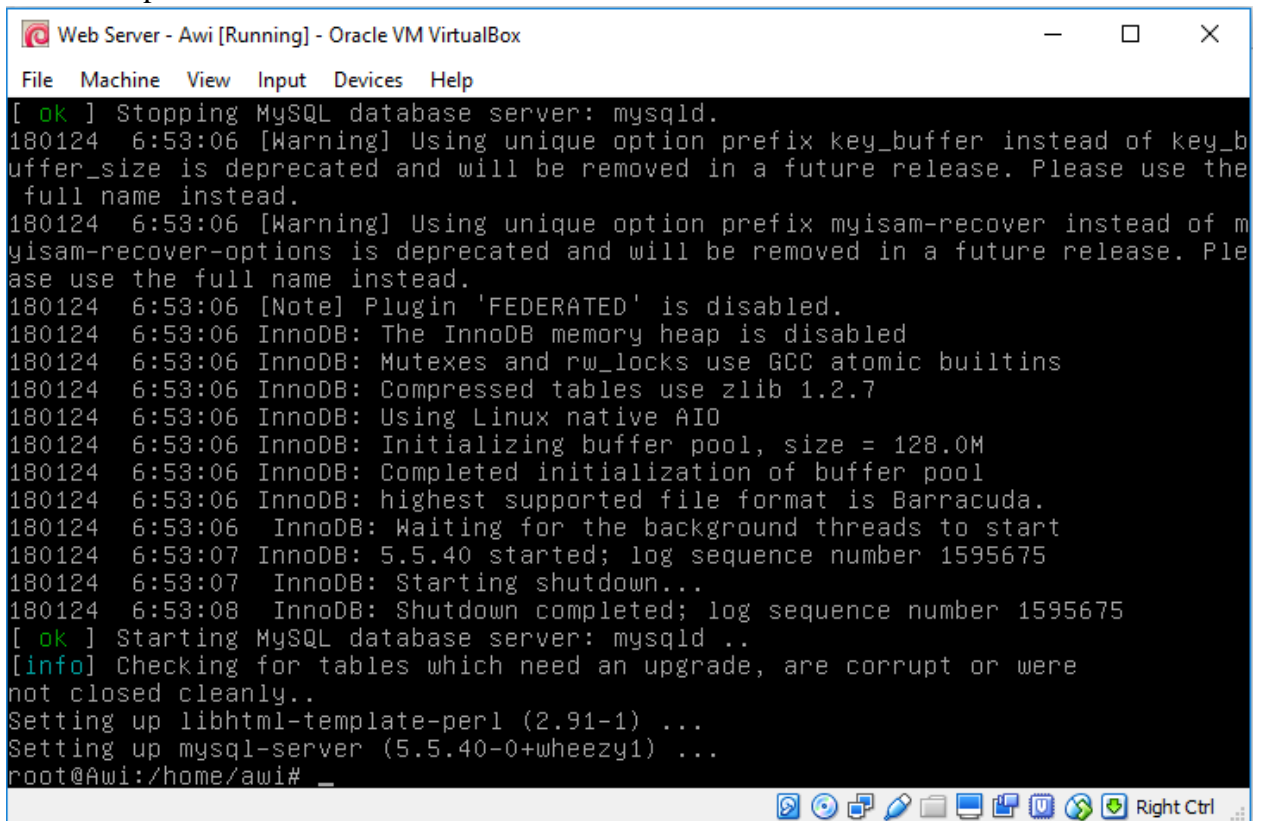
Web Server - Awi [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

```
root@Awi:/home/awi# service networking restart
[....] Running /etc/init.d/networking restart is deprecated because it may not r
[warn]ble some interfaces ... (warning).
[ ok ] Reconfiguring network interfaces...done.
root@Awi:/home/awi# _
```

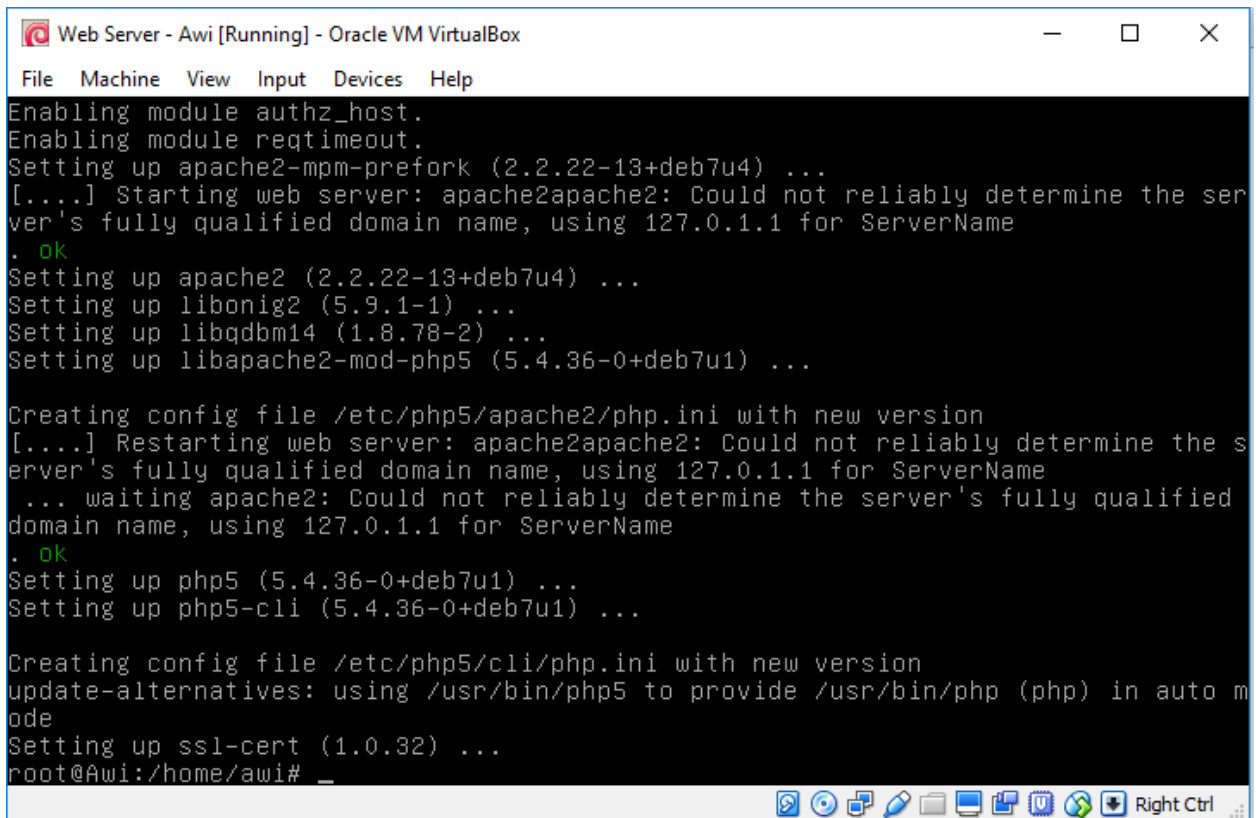
Right Ctrl

- Langkah pertama, install mysql dengan perintah “apt-get install mysql-server” dan kemudian masukkan password.



```
Web Server - Awi [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[ ok ] Stopping MySQL database server: mysqld.
180124 6:53:06 [Warning] Using unique option prefix key_buffer instead of key_b
uffer_size is deprecated and will be removed in a future release. Please use the
full name instead.
180124 6:53:06 [Warning] Using unique option prefix myisam-recover instead of m
yisam-recover-options is deprecated and will be removed in a future release. Ple
ase use the full name instead.
180124 6:53:06 [Note] Plugin 'FEDERATED' is disabled.
180124 6:53:06 InnoDB: The InnoDB memory heap is disabled
180124 6:53:06 InnoDB: Mutexes and rw_locks use GCC atomic builtins
180124 6:53:06 InnoDB: Compressed tables use zlib 1.2.7
180124 6:53:06 InnoDB: Using Linux native AIO
180124 6:53:06 InnoDB: Initializing buffer pool, size = 128.0M
180124 6:53:06 InnoDB: Completed initialization of buffer pool
180124 6:53:06 InnoDB: highest supported file format is Barracuda.
180124 6:53:06 InnoDB: Waiting for the background threads to start
180124 6:53:07 InnoDB: 5.5.40 started; log sequence number 1595675
180124 6:53:07 InnoDB: Starting shutdown...
180124 6:53:08 InnoDB: Shutdown completed; log sequence number 1595675
[ ok ] Starting MySQL database server: mysqld ..
[info] Checking for tables which need an upgrade, are corrupt or were
not closed cleanly..
Setting up libhtml-template-perl (2.91-1) ...
Setting up mysql-server (5.5.40-0+wheezy1) ...
root@Awi:/home/awi# _
```

- Install apache2 dan php5 dengan perintah “apt-get install php5 apache2”.

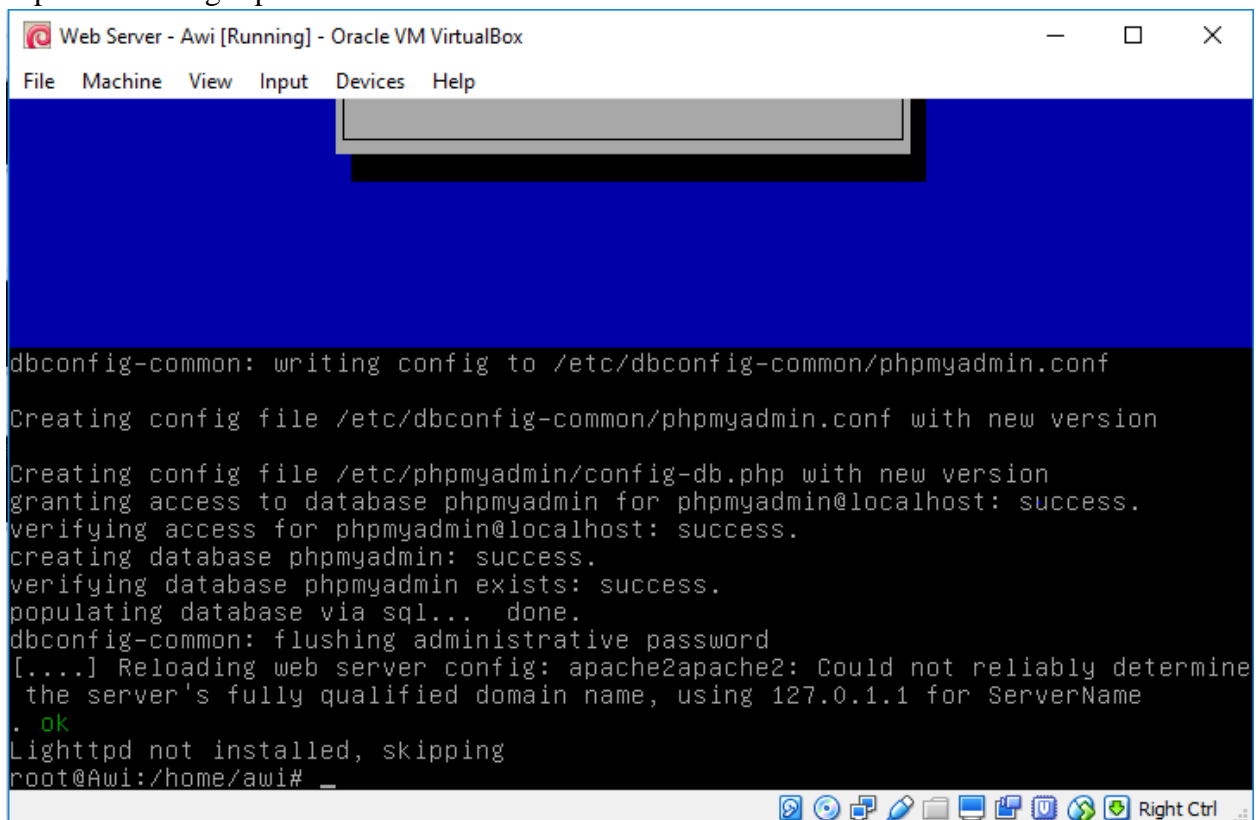


```
Web Server - Awi [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Enabling module authz_host.
Enabling module reqtimeout.
Setting up apache2-mpm-prefork (2.2.22-13+deb7u4) ...
[....] Starting web server: apache2apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1 for ServerName
. ok
Setting up apache2 (2.2.22-13+deb7u4) ...
Setting up libonig2 (5.9.1-1) ...
Setting up libqdbm14 (1.8.78-2) ...
Setting up libapache2-mod-php5 (5.4.36-0+deb7u1) ...

Creating config file /etc/php5/apache2/php.ini with new version
[....] Restarting web server: apache2apache2: Could not reliably determine the s
erver's fully qualified domain name, using 127.0.1.1 for ServerName
... waiting apache2: Could not reliably determine the server's fully qualified
domain name, using 127.0.1.1 for ServerName
. ok
Setting up php5 (5.4.36-0+deb7u1) ...
Setting up php5-cli (5.4.36-0+deb7u1) ...

Creating config file /etc/php5/cli/php.ini with new version
update-alternatives: using /usr/bin/php5 to provide /usr/bin/php (php) in auto m
ode
Setting up ssl-cert (1.0.32) ...
root@Awi:/home/awi# _
```

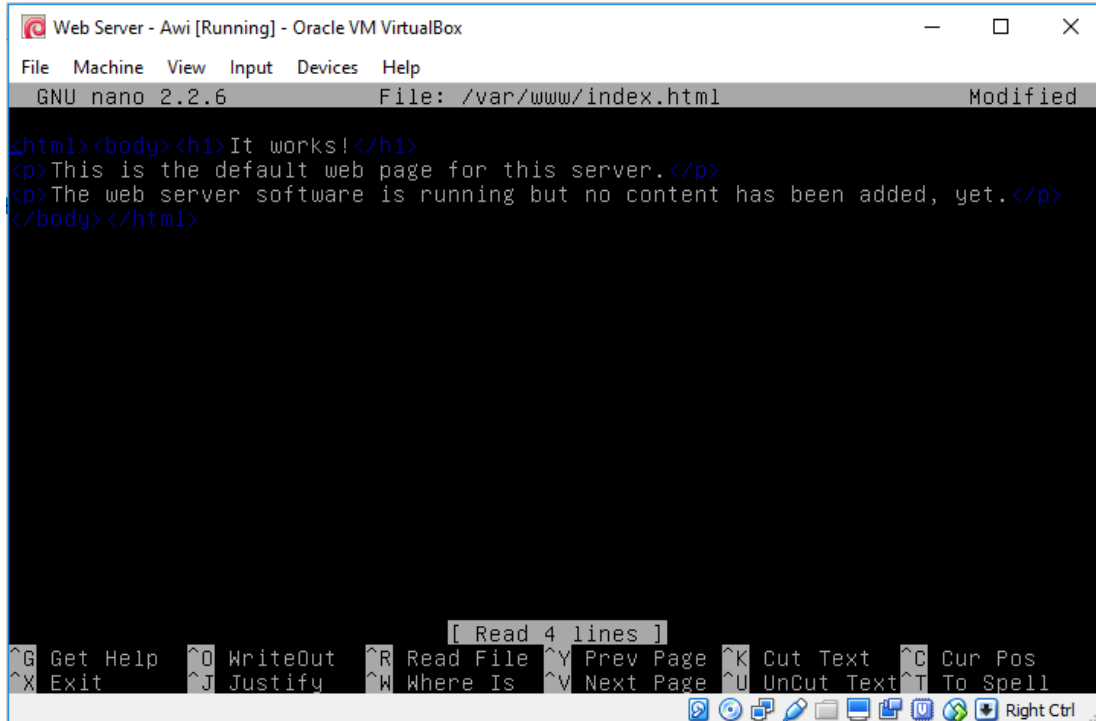
6. Install phpmyadmin dengan perintah “apt-get install phpmyadmin” kemudian centang “apache2 dan lighttpd”



```
Web Server - Awi [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

dbconfig-common: writing config to /etc/dbconfig-common/phpmyadmin.conf
Creating config file /etc/dbconfig-common/phpmyadmin.conf with new version
Creating config file /etc/phpmyadmin/config-db.php with new version
granting access to database phpmyadmin for phpmyadmin@localhost: success.
verifying access for phpmyadmin@localhost: success.
creating database phpmyadmin: success.
verifying database phpmyadmin exists: success.
populating database via sql... done.
dbconfig-common: flushing administrative password
[....] Reloading web server config: apache2apache2: Could not reliably determine
the server's fully qualified domain name, using 127.0.1.1 for ServerName
. ok
Lighttpd not installed, skipping
root@Awi:/home/awi# _
```

7. Buatlah directory root dengan perintah “mkdir /var/www/web”
8. Setelah membuat folder, buatlah file isi dari web server dengan perintah “nano /var/www/index.html”

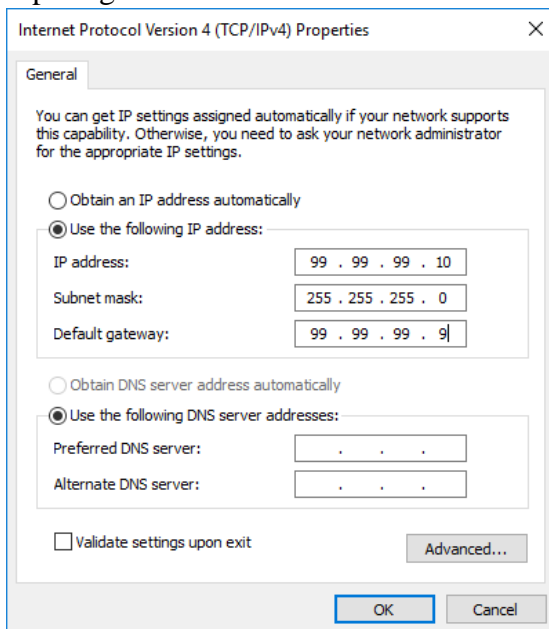


The screenshot shows a window titled "Web Server - Awi [Running] - Oracle VM VirtualBox". Inside, the GNU nano 2.2.6 text editor is open, editing the file /var/www/index.html. The editor contains the following HTML code:

```
<html><body><h1>It works!</h1>
<p>This is the default web page for this server.</p>
<p>The web server software is running but no content has been added, yet.</p>
</body></html>
```

The bottom status bar of the nano editor shows "[Read 4 lines]" and various keyboard shortcuts like ^G Get Help, ^O WriteOut, ^R Read File, etc.

9. Jika sudah, kita akan beralih ke windows. Berikan IP pada windows adapter Host-Only seperti gambar dibawah.



10. Ping IP debian ke windows dan sebaliknya.

```
CA: Command Prompt
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Tu Wikna>ping 99.99.99.9

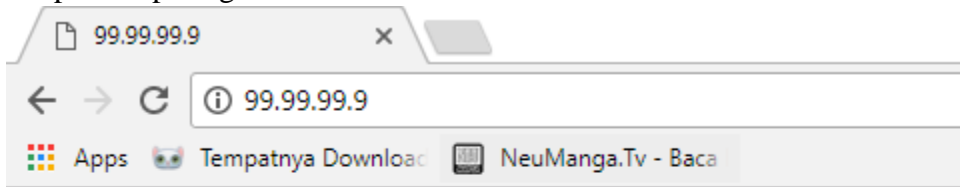
Pinging 99.99.99.9 with 32 bytes of data:
Reply from 99.99.99.9: bytes=32 time<1ms TTL=64
Reply from 99.99.99.9: bytes=32 time<1ms TTL=64
Reply from 99.99.99.9: bytes=32 time<1ms TTL=64
Reply from 99.99.99.9: bytes=32 time=1ms TTL=64

Ping statistics for 99.99.99.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\Tu Wikna>
```

```
Web Server - Awi [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@Awi:/home/awi# ping 99.99.99.10
PING 99.99.99.10 (99.99.99.10) 56(84) bytes of data.
64 bytes from 99.99.99.10: icmp_req=1 ttl=128 time=0.884 ms
64 bytes from 99.99.99.10: icmp_req=2 ttl=128 time=0.614 ms
64 bytes from 99.99.99.10: icmp_req=3 ttl=128 time=0.492 ms
64 bytes from 99.99.99.10: icmp_req=4 ttl=128 time=0.602 ms
^C
--- 99.99.99.10 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 0.492/0.648/0.884/0.144 ms
root@Awi:/home/awi#
```

11. Jika sudah terhubung buka web browser, kemudian ketikkan IP debian. Jika berhasil akan tampilan seperti gambar dibawah.



It works!

This is the default web page for this server.

The web server software is running but no content has been added, yet.