

dokumentasi tentang instalasi Remote Server

Nama: Wildan Aburrasyid

Kelas: 11 TKJ 2

OpenSSH adalah alat konektivitas utama untuk login jarak jauh dengan protokol SSH. Ini mengenkripsi semua lalu lintas untuk menghilangkan penyadapan, pembajakan koneksi, dan serangan lainnya. Selain itu, OpenSSH menyediakan rangkaian besar kapabilitas tunneling aman, beberapa metode autentikasi, dan opsi konfigurasi yang canggih.

Paket OpenSSH terdiri dari alat-alat berikut:

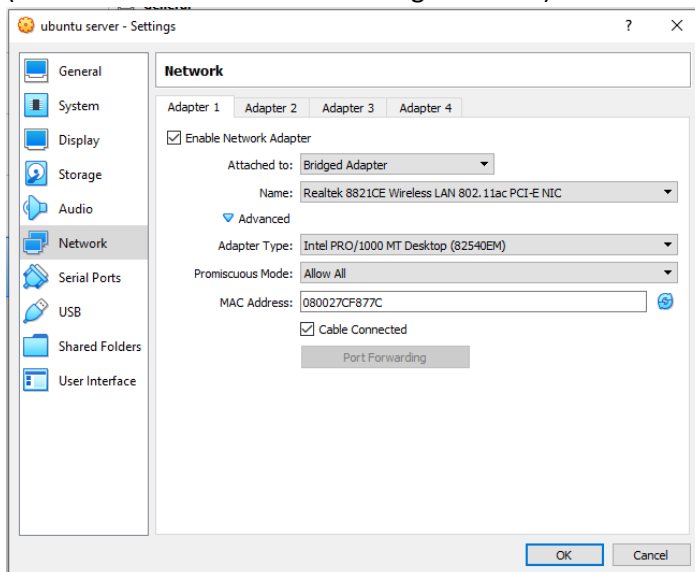
- Operasi jarak jauh dilakukan menggunakan [ssh](#) , [scp](#) , dan [sftp](#) .
- Manajemen kunci dengan [ssh-add](#) , [ssh-keysign](#) , [ssh-keyscan](#) , dan [ssh-keygen](#) .
- Sisi layanan terdiri dari [sshd](#) , [sftp-server](#) , dan [ssh-agent](#) .

OpenSSH dikembangkan oleh beberapa pengembang [Proyek OpenBSD](#) dan tersedia di bawah lisensi gaya BSD.

OpenSSH digabungkan ke dalam banyak produk komersial, tetapi sangat sedikit dari perusahaan tersebut yang membantu pendanaan OpenSSH.

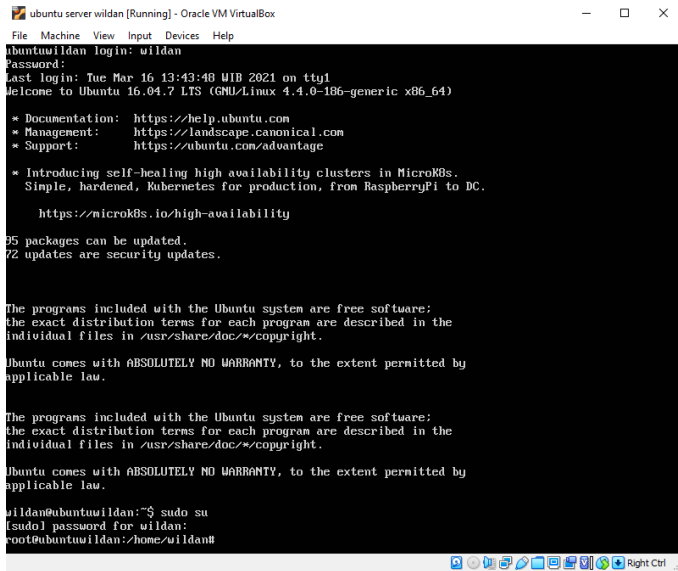
Kontribusi terhadap OpenSSH dapat dikirim ke [OpenBSD Foundation](#) .

1. Setting network Ubuntu server di virtual box seperti pada gambar berikut.
(Virtualbox>VirtualMachine>Setting>Network)



2. Buka Ubuntu server-nya dan login.
3. Masuk ke root dengan cara ketikkan perintah.

"sudo su" dan masukkan password



```
ubuntu server willdan [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
ubuntuwilldan login: willdan
Password:
Last login: Tue Mar 16 13:43:48 WIB 2021 on tty1
Welcome to Ubuntu 16.04.7 LTS (GNU/Linux 4.4.0-186-generic x86_64)

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

 * Introducing self-healing high availability clusters in MicroK8s.
   Simple, hardened, Kubernetes for production, from RaspberryPi to DC.
   https://microk8s.io/high-availability

95 packages can be updated.
72 updates are security updates.

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.

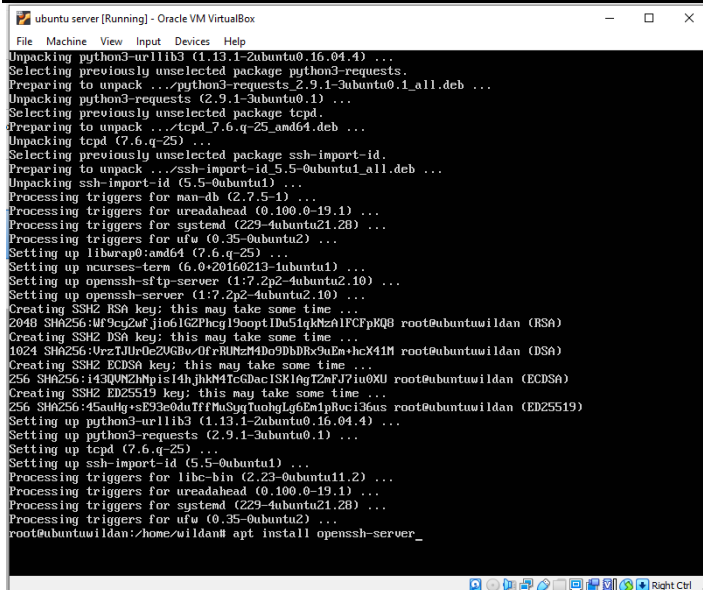
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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

willdan@ubuntuwilldan:~$ sudo su
[sudo] password for willdan:
root@ubuntuwilldan:~#
```

4. Install ssh server dengan mengetikkan perintah.

Sudo apt install openssh-server



```
ubuntu server [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Unpacking python3-certifi (2019.11.15-1ubuntu0.16.04.4) ...
Selecting previously unselected package python3-requests.
Preparing to unpack .../python3-requests_2.9.1-3ubuntu0.1_all.deb ...
Unpacking python3-requests (2.9.1-3ubuntu0.1) ...
Selecting previously unselected package tcpd.
Preparing to unpack .../tcpd_7.6.q-25_and64.deb ...
Unpacking tcpd (7.6.q-25) ...
Selecting previously unselected package ssh-import-id.
Preparing to unpack .../ssh-import-id_5.5-0ubuntu1_all.deb ...
Unpacking ssh-import-id (5.5-0ubuntu1) ...
Processing triggers for man-db (2.7.5-1) ...
Processing triggers for ureadahead (0.100.0-19.1) ...
Processing triggers for systemd (229-4ubuntu21.28) ...
Processing triggers for ufw (0.35-0ubuntu2) ...
Setting up liburp0:amd64 (7.6.q-25) ...
Setting up ncurses-term (6.0+20160213-1ubuntu1) ...
Setting up openssh-sftp-server (1:7.2p2-4ubuntu2.10) ...
Setting up openssh-server (1:7.2p2-4ubuntu2.10) ...
Creating SSH2 RSA key; this may take some time ...
2048 SHA256:Wf9cy2ufjio6IG2Phcy19ooptIDu51qkNzAlFCFpKQ8 root@ubuntuwilldan (RSA)
Creating SSH2 DSA key; this may take some time ...
1024 SHA256:UrzTJU0c2UGbu0frRUMz7M4Do9DbdR9uEn+hcX41M root@ubuntuwilldan (DSA)
Creating SSH2 ECDSA key; this may take some time ...
256 SHA256:i43QUM2hNpis14hJhkM4Tc6DacISK1AgTZmFJ7iu0XU root@ubuntuwilldan (ECDSA)
Creating SSH2 ED25519 key; this may take some time ...
256 SHA256:45andgvs03e0uTt1h3jyFuohgLG6Dnphoc136ts root@ubuntuwilldan (ED25519)
Setting up python3-urllib3 (1.13.1-2ubuntu0.16.04.4) ...
Setting up python3-requests (2.9.1-3ubuntu0.1) ...
Setting up tcpd (7.6.q-25) ...
Setting up ssh-import-id (5.5-0ubuntu1) ...
Processing triggers for libc-bin (2.23-0ubuntu11.2) ...
Processing triggers for ureadahead (0.100.0-19.1) ...
Processing triggers for systemd (229-4ubuntu21.28) ...
Processing triggers for ufw (0.35-0ubuntu2) ...
root@ubuntuwilldan:~# apt install openssh-server_
```

5. Cek status ssh dengan cara ketikkan perintah.

Service ssh status

```
ubuntu server [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
~1349 /sbin/dhclient -1 -v -pf /run/dhclient.emps3.pid -lf /var/lib/dhcp/dhclient.emps3

Mar 31 07:49:23 ubuntuwilldan ifup(1300): DHCPDISCOVER on emp0s3 to 255.255.255.255 port 67 interval
Mar 31 07:49:23 ubuntuwilldan dhclient(1316): DHCPREQUEST of 10.0.2.15 on emp0s3 to 255.255.255.255 p
Mar 31 07:49:23 ubuntuwilldan ifup(1300): DHCPREQUEST of 10.0.2.15 on emp0s3 to 255.255.255.255 port
Mar 31 07:49:23 ubuntuwilldan ifup(1300): DHCPPOFFER of 10.0.2.15 from 10.0.2.2
Mar 31 07:49:23 ubuntuwilldan dhclient(1316): DHCPPOFFER of 10.0.2.15 from 10.0.2.2
Mar 31 07:49:23 ubuntuwilldan dhclient(1316): DHCPACK of 10.0.2.15 from 10.0.2.2
Mar 31 07:49:23 ubuntuwilldan ifup(1300): DHCPACK of 10.0.2.15 from 10.0.2.2
Mar 31 07:49:23 ubuntuwilldan dhclient(1316): bound to 10.0.2.15 -- renewal in 36577 seconds.
Mar 31 07:49:23 ubuntuwilldan ifup(1300): bound to 10.0.2.15 -- renewal in 36577 seconds.
Mar 31 07:49:24 ubuntuwilldan systemd[1]: Started Raise network interfaces.
lines 1-26/26 (END)
root@ubuntuwilldan:/home/wildan# service ssh restart
Failed to restart ssh.service: Unit ssh.service not found.
root@ubuntuwilldan:/home/wildan# service ssh restart
root@ubuntuwilldan:/home/wildan# service ssh status
• ssh.service - OpenBSD Secure Shell server
  Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
  Active: active (running) since Wed 2021-03-31 07:49:54 WIB; 14s ago
    Process: 1452 ExecReload=/bin/kill -HUP $MAINPID (code=exited, status=0/SUCCESS)
    Process: 1445 ExecReload=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
    Process: 1528 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
  Main PID: 1531 (sshd)
    Tasks: 1
   Memory: 716.0K
      CPU: 29ms
   CGroup: /system.slice/ssh.service
           └─1531 /usr/sbin/sshd -D

Mar 31 07:49:54 ubuntuwilldan systemd[1]: Stopping OpenBSD Secure Shell server...
Mar 31 07:49:54 ubuntuwilldan systemd[1]: Stopped OpenBSD Secure Shell server.
Mar 31 07:49:54 ubuntuwilldan systemd[1]: Starting OpenBSD Secure Shell server...
Mar 31 07:49:54 ubuntuwilldan sshd(1531): Server listening on 0.0.0.0 port 22.
Mar 31 07:49:54 ubuntuwilldan sshd(1531): Server listening on :: port 22.
Mar 31 07:49:54 ubuntuwilldan systemd[1]: Started OpenBSD Secure Shell server.
root@ubuntuwilldan:/home/wildan#
```

6. Lihat ip yang terhubung dengan cara ketikkan perintah.

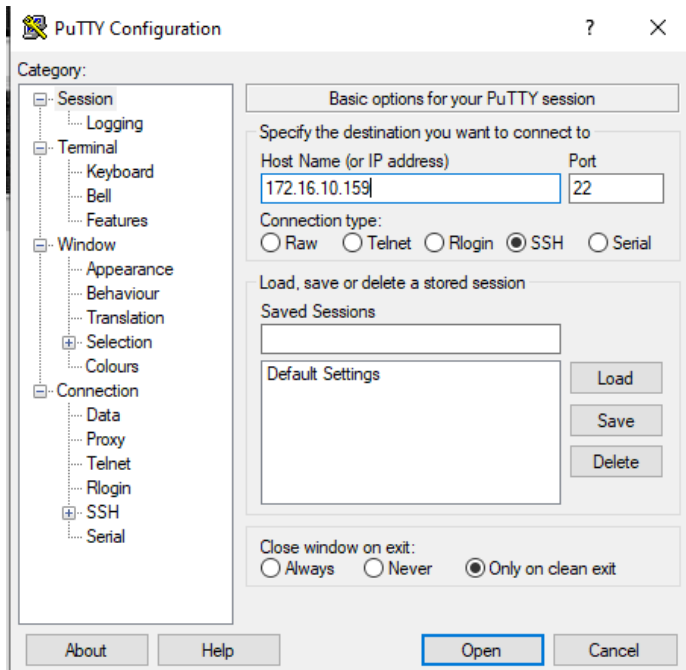
```
Ip a
ubuntu server [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B)  TX bytes:648 (648.0 B)

lo
  Link encap:Local Loopback
  inet addr:127.0.0.1  Mask:255.0.0.0
  inet6 addr: ::1/128 Scope:Host
  UP LOOPBACK RUNNING  MTU:65536  Metric:1
  RX packets:160 errors:0 dropped:0 overruns:0 frame:0
  TX packets:160 errors:0 dropped:0 overruns:0 carrier:0
  collisions:0 txqueuelen:1
  RX bytes:11840 (11.8 KB)  TX bytes:11840 (11.8 KB)

root@ubuntuwilldan:/home/wildan# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: emp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
    000
    link/ether 08:00:27:c5:cb:2f brd ff:ff:ff:ff:ff:ff
    inet 172.16.10.159/24 brd 172.16.10.255 scope global emp0s3
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe5:cb2f/64 scope link
        valid_lft forever preferred_lft forever
3: emp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
    000
    link/ether 08:00:27:c5:cb:2f brd ff:ff:ff:ff:ff:ff
    inet 192.168.35.1/24 brd 192.168.35.255 scope global emp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fee5:cb2f/64 scope link
        valid_lft forever preferred_lft forever
root@ubuntuwilldan:/home/wildan#
```

7. Buka putty dan setting seperti gambar berikut.



8. Dan akan muncul seperti command prom.

