CLIENT SERVER

Disusun untuk Memenuhi Tugas Mata Kuliah Jaringan Komputer



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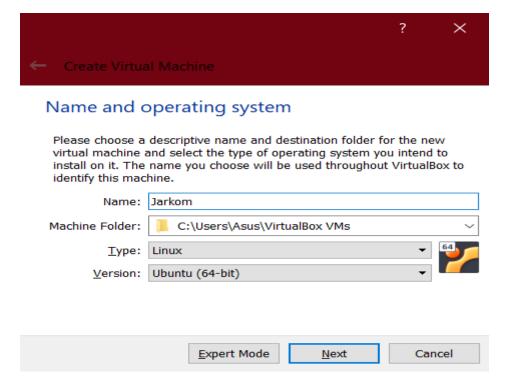
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KELAS: SK5B - INDRALAYA

JURUSAN SISTEM KOMPUTER FAKULTAS ILMU KOMPUTER UNIVERSITAS SRIWIJAYA 2023

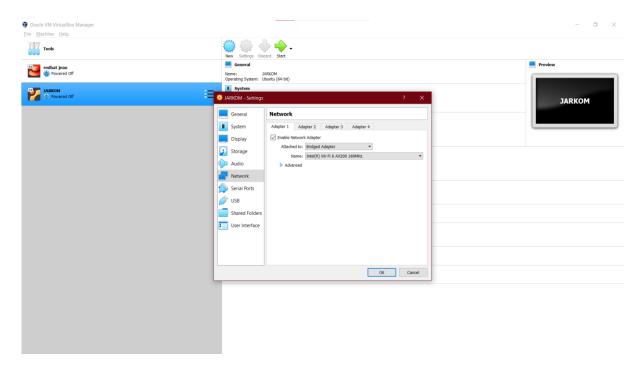
LANGKAH-LANGKAH:

- 1. Install Virtualbox
- 2. Install PuTTY
- 3. Buat virtual machine baru dengan menekan tombol "New".
- 4. Isi nama, lokasi virtual machine, pilih type "Linux" dan version "Ubuntu



- 5. Kemudian atur RAM, Penyimpanan, dan lain-lain sesuai kebutuhan
- 6. Buat username dan password untuk virtual machine tersebut
- 7. Setelah semua proses instalasi virtual machine selesai, close dan power off virtual machine tersebut
- 8. Buka virtualbox manager dan open setting virtual machine tadi

9. Pilih adapter, enable network adapter kemudian ubah menjadi Bridged Adapter dan pilih nama yang ada tulisan wireless atau wifi



- 10. Start kembali virtual machine tersebut
- 11. Masukkan password untuk virtual machine yang sudah kita atur tadi
- 12. Buka terminal dan ketik "sudo su" untuk masuk di root direktori lalu masukkan password
- 13. Setelah masuk ke root direktori cek apakah virtual machine tersambung ke internet dengan mengetik "ping google.com" untuk ping google
- 14. Jika ping berhasil tekan ctrl+c untuk menghentikan ping

15. Cek IP Address virtual machine dengan mengetik "ifconfig". IP Address nya adalah 192.168.18.37

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File Edit View Search Terminal Help

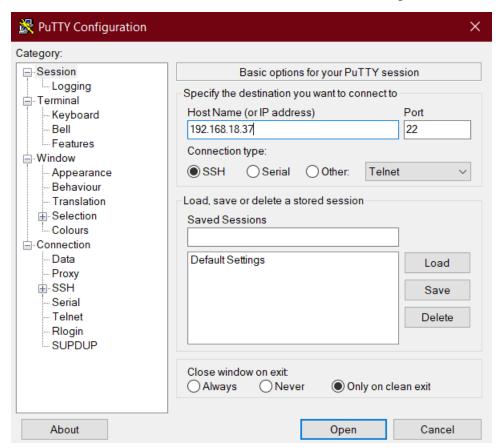
jean@jean-VirtualBox:-$ sudo su
[sudo] password for jean:
root@jean-VirtualBox:/home/jean# ping google.com
PING forcesafesearch.google.com (216.239.38.120) 56(84) bytes of data.
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=1 ttl=118 time=15.6 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=19.0 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=3 ttl=118 time=16.2 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=3 ttl=118 time=17.6 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=4 ttl=118 time=17.6 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=4 ttl=118 time=17.6 ms
65 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=4 ttl=118 time=17.6 ms
66 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=4 ttl=118 time=17.6 ms
67 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=4 ttl=118 time=17.6 ms
68 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=4 ttl=118 time=17.6 ms
69 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=19.0 ms
60 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=19.0 ms
61 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=15.6 ms
62 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=15.6 ms
63 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=15.6 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=16.6 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=18 time=15.6 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=15.6 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=16.8 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=16.2 ms
64 bytes from any-in-2678.le100.net (216.239.38.120): icmp_seq=2 ttl=118 time=16.2 ms
64 bytes from any-in-2678.
```

- 16. Install OpenSSH Server dengan mengetik "sudo apt install openssh-server"
- 17. Aktifkan layanan SSH dengan mengetik "sudo systemctl enable ssh" dan "sudo systemctl start ssh"
- 18. Ketik "sudo /etc/init.d/ssh status" dan pastikan terdapat tulisan "active (running)" berwarna hijau

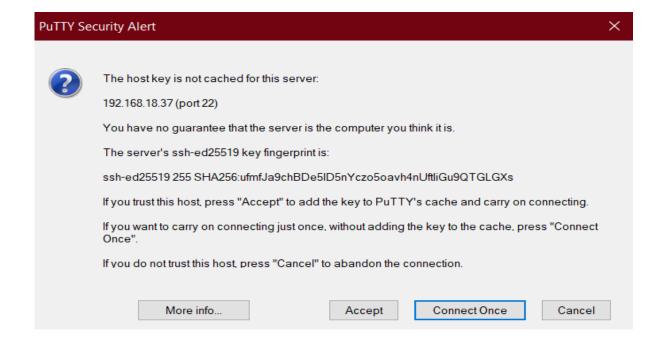
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root@jean-VirtualBox: /home/jean
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 File Edit View Search Terminal Help
root@jean-VirtualBox:/home/jean# sudo apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:8.9pl-3ubuntu0.4).
The following package was automatically installed and is no longer required:
 systemd-hwe-hwdb
Use´'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 525 not upgraded.
root@jean-VirtualBox:/home/jean# sudo systemctl enable ssh
Synchronizing state of ssh.service with SysV service script with /lib/systemd/systemd-sysv-install
Executing: /lib/systemd/systemd-sysv-install enable ssh
root@jean-VirtualBox:/home/jean# sudo systemctl start ssh
root@jean-VirtualBox:/home/jean# sudo /etc/init.d/ssh status
  ssh.service - OpenBSD Secure Shell server
       Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
       Active: active (running) since Thu 2023-09-28 02:19:45 WIB; 5min ago
         Docs: man:sshd(8)
                  man:sshd_config(5)
    Main PID: 719 (ssh\overline{d})
        Tasks: 1 (limit: 2228)
       Memory: 3.3M
           CPU: 112ms
       CGroup: /system.slice/ssh.service

—719 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
Sep 28 02:19:43 jean-VirtualBox systemd[1]: Starting OpenBSD Secure Shell se…...
Sep 28 02:19:45 jean-VirtualBox sshd[719]: Server listening on 0.0.0.0 port 22.
Sep 28 02:19:45 jean-VirtualBox sshd[719]: Server listening on :: port 22.
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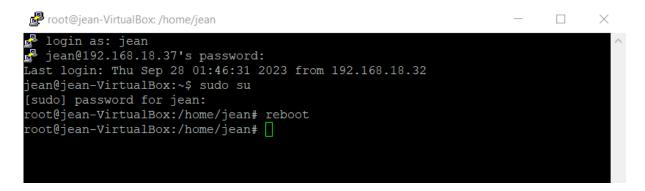
- 19. Buka aplikasi PuTTY yang tadi sudah diinstall
- 20. Masukkan IP Address virtual machine kemudian klik open



21. Nanti akan muncul peringatan dari PuTTY security. Pilih accept atau connect once terserah, disini saya memilih connect once.



- 22. Masukkan username dan password virtual machine ke PuTTY.
- 23. Jika virtual machine dan PuTTY terhubung maka login terakhir akan muncul.
- 24. Ketik "sudo su" pada PuTTY untuk masuk ke root direktori virtual machine, kemudian masukkan password virtual machine.
- 25. Setelah terhubung kita bisa mengendalikan virtual machine melalui PuTTY, sebagai contoh saya akan me-reboot virtual machine melalui PuTTY.
- 26. Ketik "reboot" pada PuTTY dan virtual machine pun otomatis akan te-reboot.



27. Kemudian akan muncul notifikasi atau seperti di bawah ini karena virtual box yang sudah te-reboot sehingga koneksi nya dengan PuTTY terputus.

