

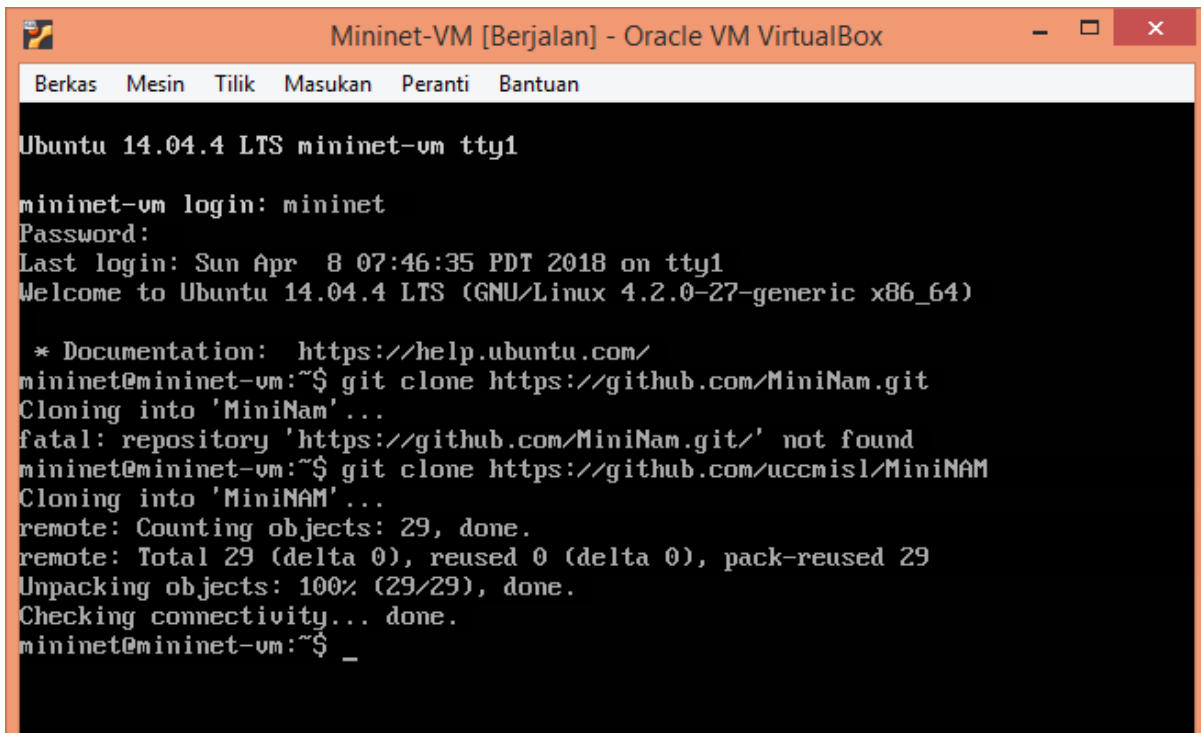
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KOM B

Administrasi dan Desain Jaringan MININAM

Install MiniNAM dengan command “git clone <https://github.com/uccmisl/MiniNam.git>” kemudian akan menampilkan hasil seperti ini



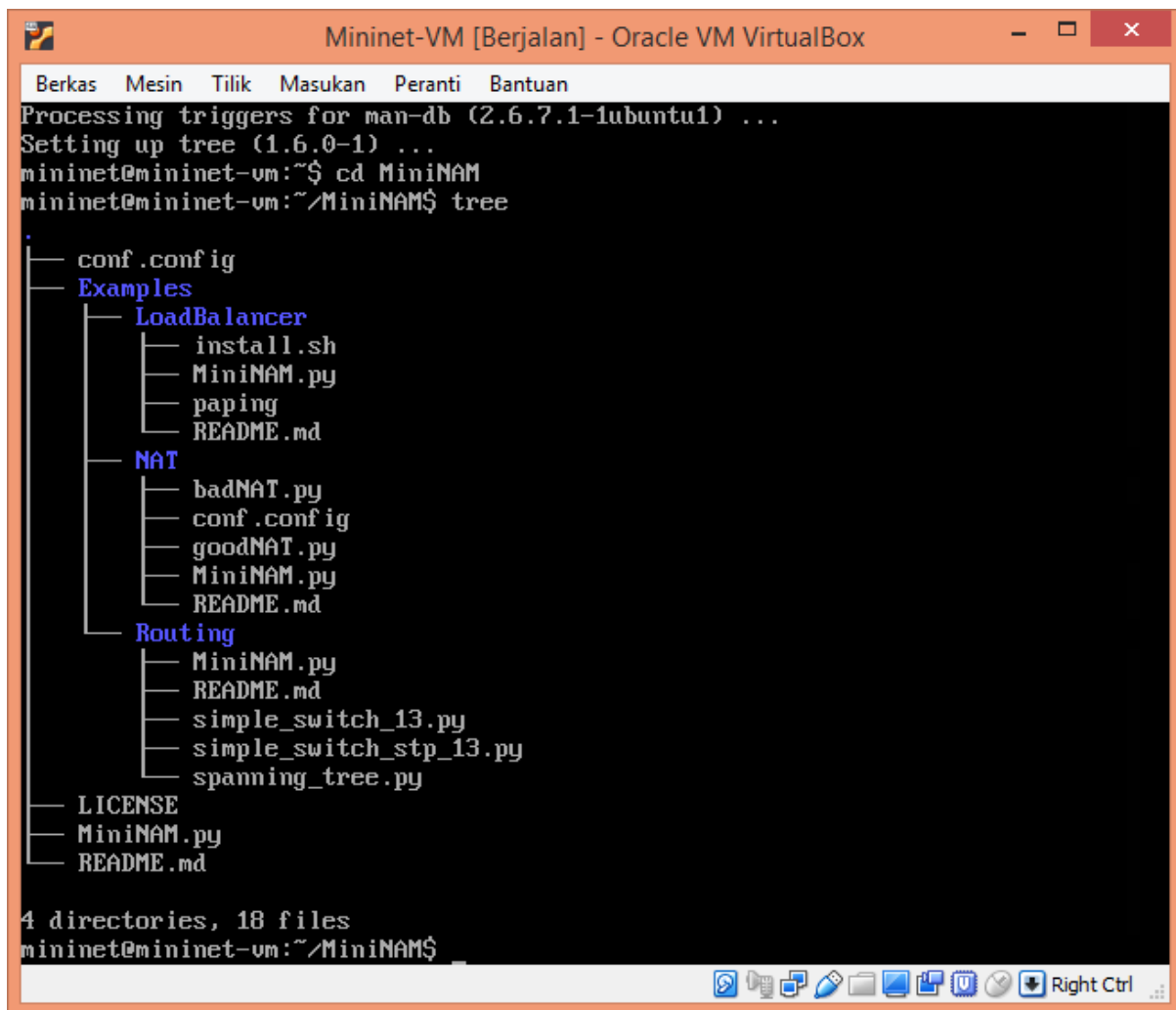
```
Mininet-VM [Berjalan] - Oracle VM VirtualBox
Berkas  Mesin  Tilik  Masukan  Peranti  Bantuan

Ubuntu 14.04.4 LTS mininet-vm tty1

mininet-vm login: mininet
Password:
Last login: Sun Apr  8 07:46:35 PDT 2018 on tty1
Welcome to Ubuntu 14.04.4 LTS (GNU/Linux 4.2.0-27-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
mininet@mininet-vm:~$ git clone https://github.com/MiniNam.git
Cloning into 'MiniNam'...
fatal: repository 'https://github.com/MiniNam.git/' not found
mininet@mininet-vm:~$ git clone https://github.com/uccmisl/MiniNAM
Cloning into 'MiniNAM'...
remote: Counting objects: 29, done.
remote: Total 29 (delta 0), reused 0 (delta 0), pack-reused 29
Unpacking objects: 100% (29/29), done.
Checking connectivity... done.
mininet@mininet-vm:~$ _
```

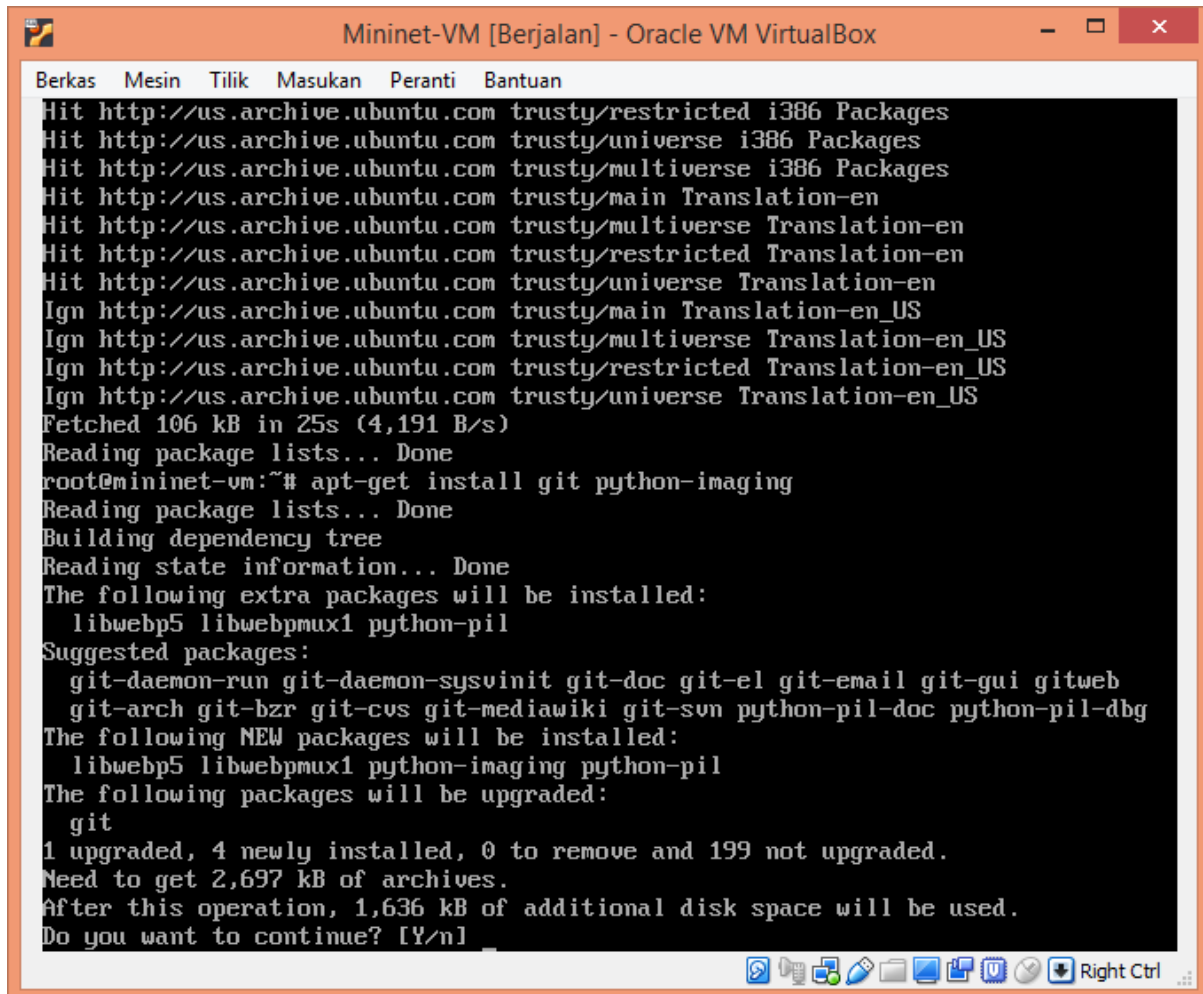
Kemudian tampilkan tree MiniNAM dengan mengetik “tree”.



```
Mininet-VM [Berjalan] - Oracle VM VirtualBox
Berkas  Mesin  Tilik  Masukan  Peranti  Bantuan
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Setting up tree (1.6.0-1) ...
mininet@mininet-vm:~$ cd MiniNAM
mininet@mininet-vm:~/MiniNAM$ tree
.
├── conf.config
├── Examples
│   ├── LoadBalancer
│   │   ├── install.sh
│   │   ├── MiniNAM.py
│   │   ├── paping
│   │   └── README.md
│   ├── NAT
│   │   ├── badNAT.py
│   │   ├── conf.config
│   │   ├── goodNAT.py
│   │   ├── MiniNAM.py
│   │   └── README.md
│   └── Routing
│       ├── MiniNAM.py
│       ├── README.md
│       ├── simple_switch_13.py
│       ├── simple_switch_stp_13.py
│       └── spanning_tree.py
├── LICENSE
├── MiniNAM.py
└── README.md

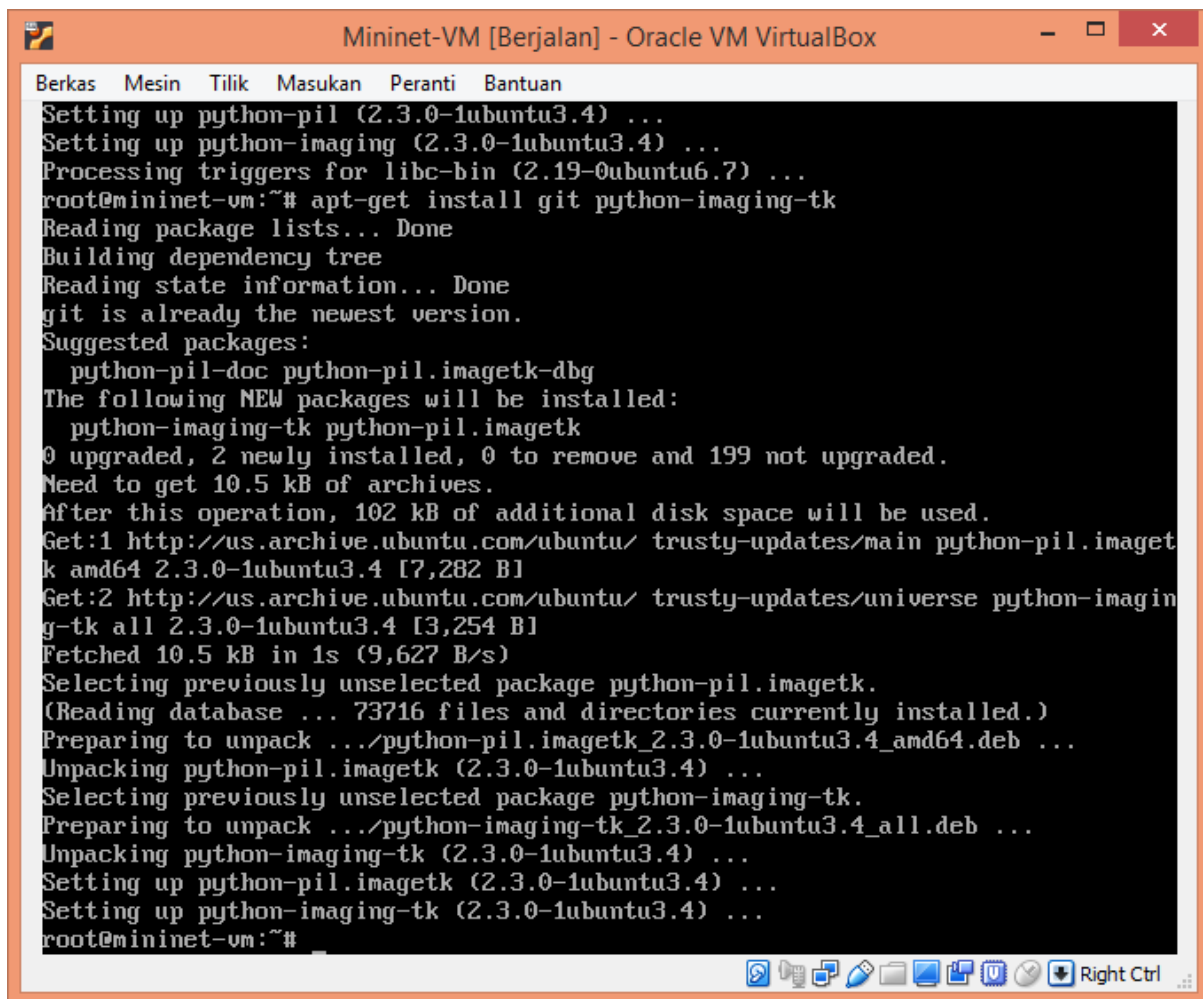
4 directories, 18 files
mininet@mininet-vm:~/MiniNAM$
```

Setelah itu MiniNAM install Python Imaging menggunakan perintah “ sudo apt-get install git python-imaging ”, akan menampilkan hasil seperti ini



```
Mininet-VM [Berjalan] - Oracle VM VirtualBox
Berkas  Mesin  Tilik  Masukan  Peranti  Bantuan
Hit http://us.archive.ubuntu.com trusty/restricted i386 Packages
Hit http://us.archive.ubuntu.com trusty/universe i386 Packages
Hit http://us.archive.ubuntu.com trusty/multiverse i386 Packages
Hit http://us.archive.ubuntu.com trusty/main Translation-en
Hit http://us.archive.ubuntu.com trusty/multiverse Translation-en
Hit http://us.archive.ubuntu.com trusty/restricted Translation-en
Hit http://us.archive.ubuntu.com trusty/universe Translation-en
Ign http://us.archive.ubuntu.com trusty/main Translation-en_US
Ign http://us.archive.ubuntu.com trusty/multiverse Translation-en_US
Ign http://us.archive.ubuntu.com trusty/restricted Translation-en_US
Ign http://us.archive.ubuntu.com trusty/universe Translation-en_US
Fetched 106 kB in 25s (4,191 B/s)
Reading package lists... Done
root@mininet-vm:~# apt-get install git python-imaging
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libwebp5 libwebpmux1 python-pil
Suggested packages:
  git-daemon-run git-daemon-sysvinit git-doc git-el git-email git-gui gitweb
  git-arch git-bzr git-cvs git-mediawiki git-svn python-pil-doc python-pil-dbg
The following NEW packages will be installed:
  libwebp5 libwebpmux1 python-imaging python-pil
The following packages will be upgraded:
  git
1 upgraded, 4 newly installed, 0 to remove and 199 not upgraded.
Need to get 2,697 kB of archives.
After this operation, 1,636 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Dan “sudo apt-get install git python-imaging”



The screenshot shows a terminal window titled "Mininet-VM [Berjalan] - Oracle VM VirtualBox". The terminal output displays the installation process for python-pil and python-imaging-tk. It starts with setting up python-pil (2.3.0-1ubuntu3.4) and python-imaging (2.3.0-1ubuntu3.4). The user then runs the command "apt-get install git python-imaging-tk". The terminal shows the package lists being read, the dependency tree being built, and the state information being read. It indicates that git is already the newest version. Suggested packages include python-pil-doc, python-pil.imagetk-dbg, python-imaging-tk, and python-pil.imagetk. The terminal shows that 2 new packages will be installed, requiring 10.5 kB of additional disk space. The packages are then fetched from the Ubuntu archive. Finally, the packages are unpacked and set up.

```
Berkas Mesin Tilik Masukan Peranti Bantuan
Setting up python-pil (2.3.0-1ubuntu3.4) ...
Setting up python-imaging (2.3.0-1ubuntu3.4) ...
Processing triggers for libc-bin (2.19-0ubuntu6.7) ...
root@mininet-vm:~# apt-get install git python-imaging-tk
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version.
Suggested packages:
  python-pil-doc python-pil.imagetk-dbg
The following NEW packages will be installed:
  python-imaging-tk python-pil.imagetk
0 upgraded, 2 newly installed, 0 to remove and 199 not upgraded.
Need to get 10.5 kB of archives.
After this operation, 102 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/main python-pil.imagetk amd64 2.3.0-1ubuntu3.4 [7,282 B]
Get:2 http://us.archive.ubuntu.com/ubuntu/ trusty-updates/universe python-imaging-tk all 2.3.0-1ubuntu3.4 [3,254 B]
Fetched 10.5 kB in 1s (9,627 B/s)
Selecting previously unselected package python-pil.imagetk.
(Reading database ... 73716 files and directories currently installed.)
Preparing to unpack .../python-pil.imagetk_2.3.0-1ubuntu3.4_amd64.deb ...
Unpacking python-pil.imagetk (2.3.0-1ubuntu3.4) ...
Selecting previously unselected package python-imaging-tk.
Preparing to unpack .../python-imaging-tk_2.3.0-1ubuntu3.4_all.deb ...
Unpacking python-imaging-tk (2.3.0-1ubuntu3.4) ...
Setting up python-pil.imagetk (2.3.0-1ubuntu3.4) ...
Setting up python-imaging-tk (2.3.0-1ubuntu3.4) ...
root@mininet-vm:~#
```