

PEMROSESAN PARALEL “NGINX”



Disusun Oleh :

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FAKULTAS ILMU KOMPUTER
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Persiapan System

Pada tutorial ini saya menggunakan perangkat dengan detail sebagai berikut :

OS Ubuntu 20.04

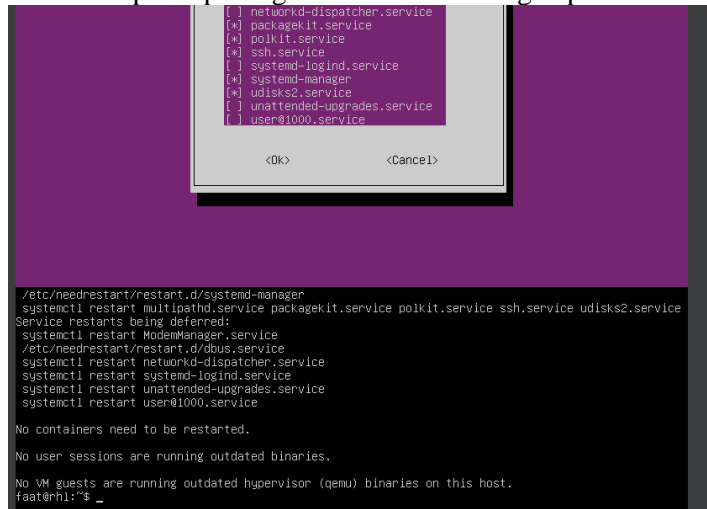
1 Core

2 RAM

40 B Disk Usage

1. Update Repository

Lakukan update package ubuntu server dengan perintah sebagai berikut:



```
networkd-dispatcher.service
packagekit.service
polkit.service
ssh.service
systemd-logind.service
systemd-manager
udisks2.service
unattended-upgrades.service
user@1000.service

<Ok> <Cancel>

/etc/needrestart/restart.d/systemd-manager
systemctl restart multipathd.service packagekit.service polkit.service ssh.service udisks2.service
Service restarts being deferred:
systemctl restart ModemManager.service
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service
systemctl restart user@1000.service

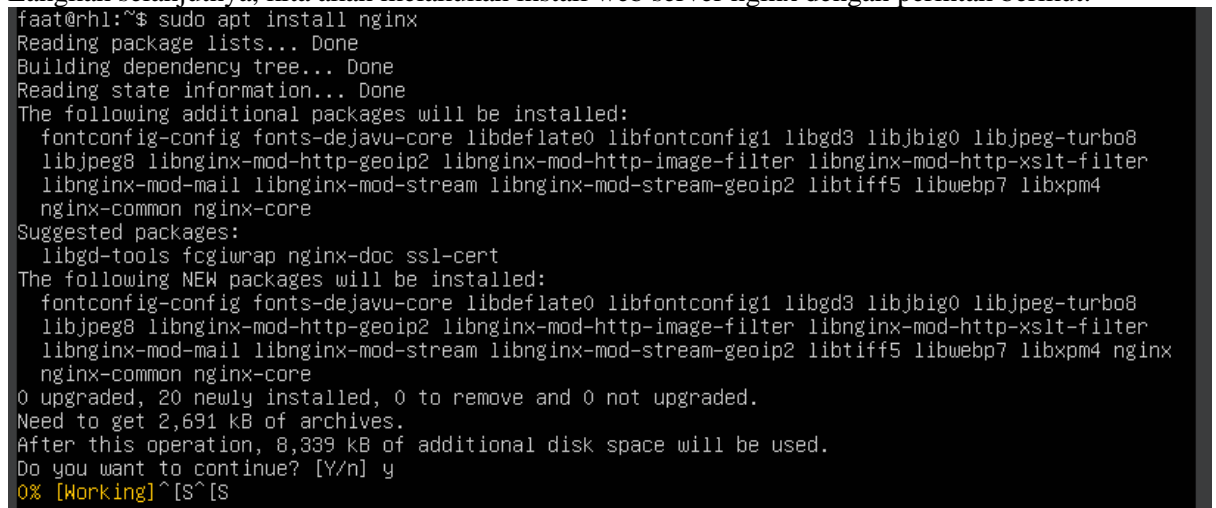
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
faat@rh1:~$ _
```

2. Install Nginx

Langkah selanjutnya, kita akan melakukan install web server nginx dengan perintah berikut:



```
faat@rh1:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
  libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
  libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4
  nginx-common nginx-core
Suggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
  libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
  libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx
  nginx-common nginx-core
0 upgraded, 20 newly installed, 0 to remove and 0 not upgraded.
Need to get 2,691 kB of archives.
After this operation, 8,339 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
0% [Working] ^[S^[S
```

3. Config UFW

Sekarang masuk tahap penyesuaian ubuntu firewall atau UFW, silahkan check app list ufw dengan command:

```
faat@rhl:~$ sudo ufw app list
Available applications:
  Nginx Full
  Nginx HTTP
  Nginx HTTPS
  OpenSSH
faat@rhl:~$
```

4. Open port 80

Langkah selanjutnya yaitu membuka port 80 agar Nginx dapat berjalan, berikut perintahnya:

```
faat@rhl:~$ sudo ufw allow 'Nginx HTTP'
Rules updated
Rules updated (v6)
faat@rhl:~$
```

5. Cek Status UFW

Untuk memastikan bahwa Nginx telah diijinkan di Ubuntu, kita bisa melihat statusnya melalui perintah berikut:

```
faat@rhl:~$ sudo ufw status
Status: active

To Action From
--
Nginx HTTP ALLOW Anywhere
Nginx HTTP (v6) ALLOW Anywhere (v6)
faat@rhl:~$ _
```

6. Cek Status Nginx

Untuk memastikan bahwa service Nginx telah berjalan, kita bisa melakukan pengecekan status dengan perintah berikut ini:

```
faat@rhl:~$ systemctl status nginx
• nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2023-10-29 02:16:34 UTC; 6min ago
     Docs: man:nginx(8)
  Process: 14546 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0)
  Process: 14547 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0)
 Main PID: 14643 (nginx)
   Tasks: 4 (limit: 3453)
  Memory: 6.0M
    CPU: 32ms
  CGroup: /system.slice/nginx.service
          └─14643 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─14646 "nginx: worker process"
                └─14647 "nginx: worker process"
                   └─14648 "nginx: worker process"

Oct 29 02:16:34 rhl systemd[1]: Starting A high performance web server and a reverse proxy server...
Oct 29 02:16:34 rhl systemd[1]: Started A high performance web server and a reverse proxy server.
lines 1-18/18 (END)
```

7. Pengujian Website

Langkah terakhir adalah melakukan test akses melalui browser. Akses dapat dilakukan dengan cara memasukkan IP VPS Anda pada address bar.

Apabila install Nginx di Ubuntu server berhasil, maka akan tampil default page nginx seperti berikut.



⚠ Not secure | 192.168.1.11



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.