

# **LAPORAN PEMROSESAN PARALEL**



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**FAKULTAS ILMU KOMPUTER  
PROGRAM STUDI SISTEM KOMPUTER  
UNIVERSITAS SRIWIJAYA  
2023**

- LAPORAN STEP BY STEP CARA MENDOWNLOAD DAN MENAMPILKAN APACHE SERTA MELAKUKAN REMOTE KE CMD, PuTTY, DAN UBUNTU DESKTOP

### Cara mendownload dan menampilkan apache

1. Login sebagai user di ubuntu server

```
Ubuntu 18.04.6 LTS khairunnisa tty1
khairunnisa login: khairunnisa
Password:
Last login: Tue Oct 24 02:30:34 UTC 2023 from 192.168.83.197 on pts/1
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-156-generic x86_64)

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

System information as of Wed Oct 25 04:05:35 UTC 2023

System load:  0.94               Processes:           96
Usage of /:   19.7% of 19.56GB   Users logged in:    0
Memory usage: 7%                IP address for enp0s3: 10.1.12.91
Swap usage:   0%

206 updates can be applied immediately.
167 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

khairunnisa@khairunnisa:~$
```

2. Gunakan perintah “sudo apt update” untuk memperbarui daftar paket yang tersedia

```
khairunnisa@khairunnisa:~$ sudo apt update
[sudo] password for khairunnisa:
Hit:1 http://archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://archive.ubuntu.com/ubuntu bionic-backports InRelease [83.3 kB]
Get:4 http://archive.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Fetched 261 kB in 6s (41.7 kB/s)
```

3. Menginstall apache dengan perintah “sudo apt install apache2”

```
khairunnisa@khairunnisa:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.29-1ubuntu4.27).
0 upgraded, 0 newly installed, 0 to remove and 197 not upgraded.
khairunnisa@khairunnisa:~$ _
```

4. Mengecek apk yang diinstal dengan perintah “sudo ufw app list”

```
khairunnisa@khairunnisa:~$ sudo ufw app list
Available applications:
  Apache
  Apache Full
  Apache Secure
  OpenSSH
khairunnisa@khairunnisa:~$
```

5. Gunakan perintah “sudo systemctl status apache2”

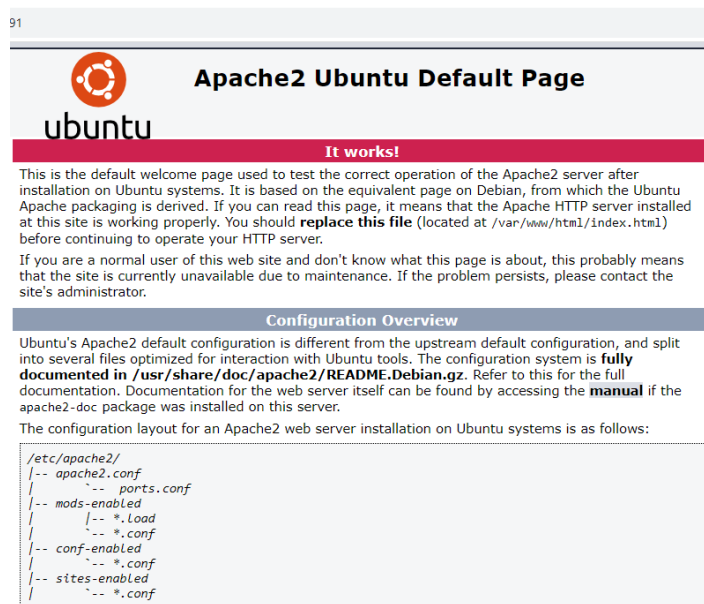
```
khairunnisa@khairunnisa:~$ sudo systemctl status apache2
[sudo] password for khairunnisa:
Sorry, try again.
[sudo] password for khairunnisa:
• apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Wed 2023-10-25 04:05:21 UTC; 10min ago
   Process: 846 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 937 (apache2)
   Tasks: 6 (limit: 2314)
   CGroup: /system.slice/apache2.service
           └─937 /usr/sbin/apache2 -k start
             948 /usr/sbin/apache2 -k start
             949 /usr/sbin/apache2 -k start
             950 /usr/sbin/apache2 -k start
             951 /usr/sbin/apache2 -k start
             952 /usr/sbin/apache2 -k start

Oct 25 04:05:20 khairunnisa systemd[1]: Starting The Apache HTTP Server...
Oct 25 04:05:21 khairunnisa apachectl[846]: AH00558: apache2: Could not reliably determin
Oct 25 04:05:21 khairunnisa systemd[1]: Started The Apache HTTP Server.
lines 1-19/19 (END)
```

6. Gunakan perintah “hostname -I” untuk melihat ip address

```
khairunnisa@khairunnisa:~$ hostname -I
10.1.12.91
khairunnisa@khairunnisa:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 10
    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: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default
    link/ether 08:00:27:1d:6c:aa brd ff:ff:ff:ff:ff:ff
    inet 10.1.12.91/22 brd 10.1.15.255 scope global dynamic enp0s3
        valid_lft 68sec preferred_lft 68sec
    inet6 fe80::a00:27ff:fe1d:6caa/64 scope link
        valid_lft forever preferred_lft forever
khairunnisa@khairunnisa:~$
```

## 7. Mengecek apache2 pada ip address



## 8. Masuk ke direktori

```
khairunnisa@khairunnisa:~$ cd /var/www/html
khairunnisa@khairunnisa:/var/www/html$ sudo mkdir Tugas1
khairunnisa@khairunnisa:/var/www/html$ sudo chmod 777 Tugas1
khairunnisa@khairunnisa:/var/www/html$ cd Tugas1
khairunnisa@khairunnisa:/var/www/html/Tugas1$
```

## 9. Mengedit

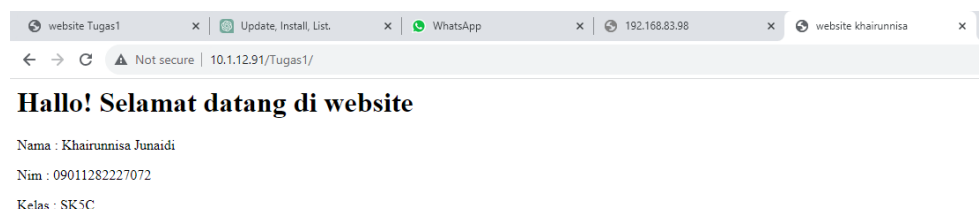
```
GNU nano 2.9.3 index.html

<html>
<head>

<title> website khairunnisa </title>
</head>
<h1>
<body> Hallo! Selamat datang di website </h1>
<p> Nama : Khairunnisa Junaidi
<p> Nim : 09011282227072
<p> Kelas : SK5C

</body>
</html>_
```

## 10. Tampilan di website



## Cara Remote ke CMD

```
khairunnisa@khairunnisa: ~
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>ssh khairunnisa@10.1.12.91
The authenticity of host '10.1.12.91 (10.1.12.91)' can't be established.
ECDSA key fingerprint is SHA256:mYrliuJ9A0YKbdVwK2/sLx5A/SFS1q7ZMerQWH7s.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.1.12.91' (ECDSA) to the list of known hosts.
khairunnisa@10.1.12.91's password:
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-156-generic x86_64)

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

System information as of Wed Oct 25 04:40:16 UTC 2023

System load:  0.0          Processes:      98
Usage of /:   19.8% of 19.56GB   Users logged in: 1
Memory usage: 8%           IP address for enp0s3: 10.1.12.91
Swap usage:  0%

206 updates can be applied immediately.
167 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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

New release '20.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Oct 25 04:15:16 2023
khairunnisa@khairunnisa:~$
```

```
khairunnisa@khairunnisa: ~
GNU nano 2.9.3                                index.html

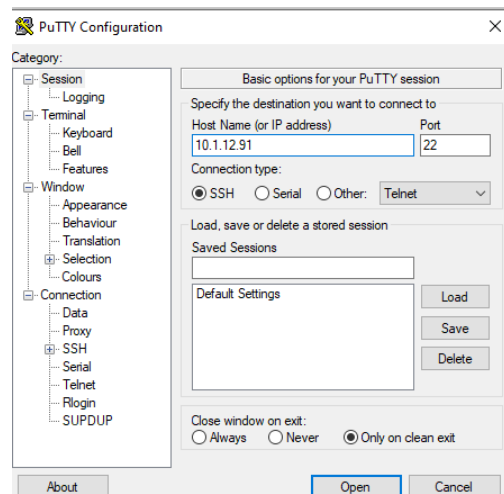
<html>
<head>

<title> Website Khairunnisa </title>
</head>
<h1>
<body> Hello! Selamat datang di website </h1>
<p> Nama : Khairunnisa Junaidi
<p> Nim : 09011282227072
<p> Kelas : SK5C

</body>
</html>
```

## Cara Remote ke PuTTY

### Input hostname



## PuTTY Security Alert



The host key is not cached for this server:

10.1.12.91 (port 22)

You have no guarantee that the server is the computer you think it is.

The server's ssh-ed25519 key fingerprint is:

ssh-ed25519 255 SHA256:3CM9D2pDKhj9SpxuZfpu7H8kxKyQv60wxERpoQwMY

If you trust this host, press "Accept" to add the key to PuTTY's cache and carry on connecting.

If you want to carry on connecting just once, without adding the key to the cache, press "Connect Once".

If you do not trust this host, press "Cancel" to abandon the connection.

[More info...](#)

[Accept](#)

[Connect Once](#)

[Cancel](#)

## Login ke PuTTY

```
khairunnisa@khairunnisa: ~  
login as: khairunnisa  
khairunnisa@10.1.12.91's password:  
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-156-generic x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:        https://ubuntu.com/advantage  
  
System information as of Wed Oct 25 04:50:22 UTC 2023  
  
System load:  0.0      Processes:      98  
Usage of /:   19.8% of 19.56GB   Users logged in:  1  
Memory usage: 8%      IP address for emp0s3: 10.1.12.91  
Swap usage:   0%  
  
206 updates can be applied immediately.  
167 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
New release '20.04.6 LTS' available.  
Run 'do-release-upgrade' to upgrade to it.  
  
Last login: Wed Oct 25 04:40:17 2023 from 10.1.14.27  
khairunnisa@khairunnisa:~$
```

```
khairunnisa@khairunnisa: ~  
GNU nano 2.9.3      index.html  
  
<html>  
<head>  
  
<<title> WEbsite Khairunnisa </title>  
</head>  
<h1>  
<body> Selamat datang di website </h1>  
<p> Nama : Khairunnisa Junaidi  
<p> Nim : 09011282227072  
<p> Kelas : SK3C  
  
</body>  
</html>  
|
```

## Cara Remote ke Ubuntu Desktop

```
khairunnisa@khairunnisa:~$ ssh khairunnisa@10.1.12.91
khairunnisa@10.1.12.91's password:
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 4.15.0-156-generic x86_64)

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

System information as of Wed Oct 25 05:05:02 UTC 2023

System load:  0.07          Processes:            109
Usage of /:   19.8% of 19.56GB   Users logged in:     1
Memory usage: 8%            IP address for enp0s3: 10.1.12.91
Swap usage:   0%

206 updates can be applied immediately.
167 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

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applicable law.

New release '20.04.6 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Oct 25 05:04:42 2023
khairunnisa@khairunnisa:~$ _
```