Instalasi server CAT MANDIRI ubuntu 18

1. **Install ssh**

   sudo apt install openssh-server

2. **Konfigurasi jaringan**

   vi /etc/netplan/00-installer-config.yaml

```
# This is the network config written by 'subiquity'
network:
  ethernets:
    enp1s0:
      dhcp4: true
    enp2s0:
      addresses:
      - 192.168.55.1/24
  version: 2
~
~
~
~
~
~
~
```

   netplan apply

   ip a

```
root@mandiri:/home/mandiri# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    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: enp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 38:d5:47:c9:40:1b brd ff:ff:ff:ff:ff:ff
    inet 10.105.10.189/24 brd 10.105.10.255 scope global dynamic enp1s0
       valid_lft 518sec preferred_lft 518sec
    inet6 fe80::3ad5:47ff:fec9:401b/64 scope link
       valid_lft forever preferred_lft forever
3: enp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 38:d5:47:c9:40:1c brd ff:ff:ff:ff:ff:ff
    inet 192.168.55.1/24 brd 192.168.55.255 scope global enp2s0
       valid_lft forever preferred_lft forever
    inet6 fe80::3ad5:47ff:fec9:401c/64 scope link
       valid_lft forever preferred_lft forever
root@mandiri:/home/mandiri#
```

3. Install dhcp server

sudo apt install isc-dhcp-server

```
root@mandiri:/home/mandiri# sudo apt install isc-dhcp-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libirs-export160 libisccfg-export160
Suggested packages:
  isc-dhcp-server-ldap policycoreutils
The following NEW packages will be installed:
  isc-dhcp-server libirs-export160 libisccfg-export160
0 upgraded, 3 newly installed, 0 to remove and 65 not upgraded.
Need to get 509 kB of archives.
After this operation, 1,795 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libisccfg-export160 amd64 1:9.11.3+dfsg-1ubuntu1.15 [45.3 kB]
Get:2 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libirs-export160 amd64 1:9.11.3+dfsg-1ubuntu1.15 [18.4 kB]
Get:3 http://id.archive.ubuntu.com/ubuntu bionic-updates/main amd64 isc-dhcp-server amd64 4.3.5-3ubuntu7.3 [446 kB]
Fetched 509 kB in 2s (206 kB/s)
Preconfiguring packages ...
Selecting previously unselected package libisccfg-export160.
(Reading database ... 67143 files and directories currently installed.)
Preparing to unpack .../libisccfg-export160_1%3a9.11.3+dfsg-1ubuntu1.15_amd64.deb ...
Unpacking libisccfg-export160 (1:9.11.3+dfsg-1ubuntu1.15) ...
Selecting previously unselected package libirs-export160.
Preparing to unpack .../libirs-export160_1%3a9.11.3+dfsg-1ubuntu1.15_amd64.deb ...
Unpacking libirs-export160 (1:9.11.3+dfsg-1ubuntu1.15) ...
Selecting previously unselected package isc-dhcp-server.
Preparing to unpack .../isc-dhcp-server_4.3.5-3ubuntu7.3_amd64.deb ...
Unpacking isc-dhcp-server (4.3.5-3ubuntu7.3) ...
Setting up libisccfg-export160 (1:9.11.3+dfsg-1ubuntu1.15) ...
Setting up libirs-export160 (1:9.11.3+dfsg-1ubuntu1.15) ...
Setting up isc-dhcp-server (4.3.5-3ubuntu7.3) ...
Generating /etc/default/isc-dhcp-server...
Created symlink /etc/systemd/system/multi-user.target.wants/isc-dhcp-server.service → /lib/systemd/system/isc-dhcp-server.service.
Created symlink /etc/systemd/system/multi-user.target.wants/isc-dhcp-server6.service → /lib/systemd/system/isc-dhcp-server6.service.
Processing triggers for libc-bin (2.27-3ubuntu1.2) ...
Processing triggers for systemd (237-3ubuntu10.42) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
ureadahead will be reprofiled on next reboot
root@mandiri:/home/mandiri#
```

4. Inisialisasi eth1 untuk dhcp server

vi /etc/default/isc-dhcp-server

```
root@mandiri: /home/mandiri
# Defaults for isc-dhcp-server (sourced by /etc/init.d/isc-dhcp-server)

# Path to dhcpd's config file (default: /etc/dhcp/dhcpd.conf).
#DHCPDv4_CONF=/etc/dhcp/dhcpd.conf
#DHCPDv6_CONF=/etc/dhcp/dhcpd6.conf

# Path to dhcpd's PID file (default: /var/run/dhcpd.pid).
#DHCPDv4_PID=/var/run/dhcpd.pid
#DHCPDv6_PID=/var/run/dhcpd6.pid

# Additional options to start dhcpd with.
#       Don't use options -cf or -pf here; use DHCPD_CONF/ DHCPD_PID instead
#OPTIONS=""

# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
#       Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACESv4="enp2s0"
INTERFACESv6=""
~
~
~
```

5. **Konfigurasi subnetting**
   vi /etc/dhcp/dhcpd.conf

   subnet 192.168.55.0 netmask 255.255.255.0{
           range 192.168.55.2 192.168.55.100;
           option domain-name "dhcp-server";
           option routers 192.168.55.1;
           option domain-name-servers 192.168.55.1;
           option broadcast-address 192.168.55.255;
   }

```
#   range 10.254.239.10 10.254.239.20;
#   option routers rtr-239-0-1.example.org, rtr-239-0-2.example.org;
#}

# This declaration allows BOOTP clients to get dynamic addresses,
# which we don't really recommend.

#subnet 10.254.239.32 netmask 255.255.255.224 {
#   range dynamic-bootp 10.254.239.40 10.254.239.60;
#   option broadcast-address 10.254.239.31;
#   option routers rtr-239-32-1.example.org;
#}

# A slightly different configuration for an internal subnet.
#subnet 10.5.5.0 netmask 255.255.255.224 {
#   range 10.5.5.26 10.5.5.30;
#   option domain-name-servers ns1.internal.example.org;
#   option domain-name "internal.example.org";
#   option subnet-mask 255.255.255.224;
#   option routers 10.5.5.1;
#   option broadcast-address 10.5.5.31;
#   default-lease-time 600;
#   max-lease-time 7200;
#}
 subnet 192.168.55.0 netmask 255.255.255.0{
         range 192.168.55.2 192.168.55.100;
         option domain-name "dhcp-server";
         option routers 192.168.55.1;
         option domain-name-servers 192.168.55.1;
         option broadcast-address 192.168.55.255;
}

# Hosts which require special configuration options can be listed in
# host statements.   If no address is specified, the address will be
# allocated dynamically (if possible), but the host-specific information
# will still come from the host declaration.
```

sudo systemctl restart isc-dhcp-server

sudo systemctl status isc-dhcp-server

```
root@mandiri:/home/mandiri# root@mandiri:/home/mandiri# sudo systemctl restart isc-dhcp-server
root@mandiri:/home/mandiri# sudo systemctl status isc-dhcp-server
● isc-dhcp-server.service - ISC DHCP IPv4 server
   Loaded: loaded (/lib/systemd/system/isc-dhcp-server.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2021-07-01 08:21:11 UTC; 5s ago
     Docs: man:dhcpd(8)
 Main PID: 3242 (dhcpd)
    Tasks: 1 (limit: 4915)
   CGroup: /system.slice/isc-dhcp-server.service
           └─3242 dhcpd -user dhcpd -group dhcpd -f -4 -pf /run/dhcp-server/dhcpd.pid -cf /etc/dhcp/dhcpd.conf enp2s0

Jul 01 08:21:11 mandiri dhcpd[3242]: PID file: /run/dhcp-server/dhcpd.pid
Jul 01 08:21:11 mandiri sh[3242]: Wrote 0 leases to leases file.
Jul 01 08:21:11 mandiri dhcpd[3242]: Wrote 0 leases to leases file.
Jul 01 08:21:11 mandiri dhcpd[3242]: Listening on LPF/enp2s0/38:d5:47:c9:40:1c/192.168.55.0/24
Jul 01 08:21:11 mandiri sh[3242]: Listening on LPF/enp2s0/38:d5:47:c9:40:1c/192.168.55.0/24
Jul 01 08:21:11 mandiri sh[3242]: Sending on   LPF/enp2s0/38:d5:47:c9:40:1c/192.168.55.0/24
Jul 01 08:21:11 mandiri sh[3242]: Sending on   Socket/fallback/fallback-net
Jul 01 08:21:11 mandiri dhcpd[3242]: Sending on   LPF/enp2s0/38:d5:47:c9:40:1c/192.168.55.0/24
Jul 01 08:21:11 mandiri dhcpd[3242]: Sending on   Socket/fallback/fallback-net
Jul 01 08:21:11 mandiri dhcpd[3242]: Server starting service.
root@mandiri:/home/mandiri#
```

6. **Instalasi nginx**
    sudo apt update

sudo apt install nginx

systemctl enable nginx

systemctl restart nginx

7. instalasi php

sudo apt install software-properties-common

sudo add-apt-repository ppa:ondrej/php

```
root@mandiri:/home/mandiri# sudo add-apt-repository ppa:ondrej/php
 Co-installable PHP versions: PHP 5.6, PHP 7.x and most requested extensions are included. Only Supported Versions of PHP (http://php.net/s
u.com/Releases) are provided. Don't ask for end-of-life PHP versions or Ubuntu release, they won't be provided.

Debian oldstable and stable packages are provided as well: https://deb.sury.org/#debian-dpa

You can get more information about the packages at https://deb.sury.org

IMPORTANT: The <foo>-backports is now required on older Ubuntu releases.

BUGS&FEATURES: This PPA now has a issue tracker:
https://deb.sury.org/#bug-reporting

CAVEATS:
1. If you are using php-gearman, you need to add ppa:ondrej/pkg-gearman
2. If you are using apache2, you are advised to add ppa:ondrej/apache2
3. If you are using nginx, you are advised to add ppa:ondrej/nginx-mainline
   or ppa:ondrej/nginx

PLEASE READ: If you like my work and want to give me a little motivation, please consider donating regularly: https://donate.sury.org/

WARNING: add-apt-repository is broken with non-UTF-8 locales, see
https://github.com/oerdnj/deb.sury.org/issues/56 for workaround:

# LC_ALL=C.UTF-8 add-apt-repository ppa:ondrej/php
 More info: https://launchpad.net/~ondrej/+archive/ubuntu/php
Press [ENTER] to continue or Ctrl-c to cancel adding it.
3
```

apt update

sudo apt install php7.3 php7.3-fpm

sudo apt install php7.3-cli php7.3-fpm php7.3-mysql php7.3-json php7.3-opcache php7.3-mbstring php7.3-xml php7.3-gd php7.3-curl php7.3-zip

sudo apt-get install php7.3-zip

```
root@mandiri:/home/mandiri# sudo systemctl status php7.3-fpm
● php7.3-fpm.service - The PHP 7.3 FastCGI Process Manager
   Loaded: loaded (/lib/systemd/system/php7.3-fpm.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2021-07-01 08:30:18 UTC; 18s ago
     Docs: man:php-fpm7.3(8)
  Process: 11461 ExecStopPost=/usr/lib/php/php-fpm-socket-helper remove /run/php/php-fpm.sock /etc/php/7.3/fpm/pool.d/www.conf 73 (code=exited, status=0/SUC
  Process: 11476 ExecStartPost=/usr/lib/php/php-fpm-socket-helper install /run/php/php-fpm.sock /etc/php/7.3/fpm/pool.d/www.conf 73 (code=exited, status=0/S
 Main PID: 11463 (php-fpm7.3)
   Status: "Processes active: 0, idle: 2, Requests: 0, slow: 0, Traffic: 0req/sec"
    Tasks: 3 (limit: 4915)
   CGroup: /system.slice/php7.3-fpm.service
           ├─11463 php-fpm: master process (/etc/php/7.3/fpm/php-fpm.conf)
           ├─11474 php-fpm: pool www
           └─11475 php-fpm: pool www

Jul 01 08:30:18 mandiri systemd[1]: Starting The PHP 7.3 FastCGI Process Manager...
Jul 01 08:30:18 mandiri systemd[1]: Started The PHP 7.3 FastCGI Process Manager.
```

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.

Konfigurasi lanjutan nginx

vi /etc/nginx/site-available/default

```
root /var/www/html/public;

add_header X-Frame-Options "SAMEORIGIN";
    add_header X-XSS-Protection "1; mode=block";
    add_header X-Content-Type-Options "nosniff";

    index index.html index.htm index.php;

    charset utf-8;

    location / {
        try_files $uri $uri/ /index.php?$query_string;
    }

    location = /favicon.ico { access_log off; log_not_found off; }
    location = /robots.txt  { access_log off; log_not_found off; }
    error_page 404 /index.php;
    location ~ \.php$ {
        fastcgi_pass unix:/var/run/php/php7.2-fpm.sock;
        fastcgi_index index.php;
        fastcgi_param SCRIPT_FILENAME $realpath_root$fastcgi_script_name;
        include fastcgi_params;
    }
    location ~ /\.(?!well-known).* {
        deny all;
```

```
    }
```

8. Instalasi Mysql
   sudo apt install mysql-server