

# **LAPORAN DEPLOY WESBITE DI GOOGLE CLOUD**



**SMK Telkom Malang**



**PT PETROKIMIA GRESIK**

**Disusun Oleh :  
Annisa Rachmanti**

**Program Keahlian:  
Teknik Komputer dan Jaringan  
Cloud Computing**

**Petrokimia Gresik  
Januari 2024**

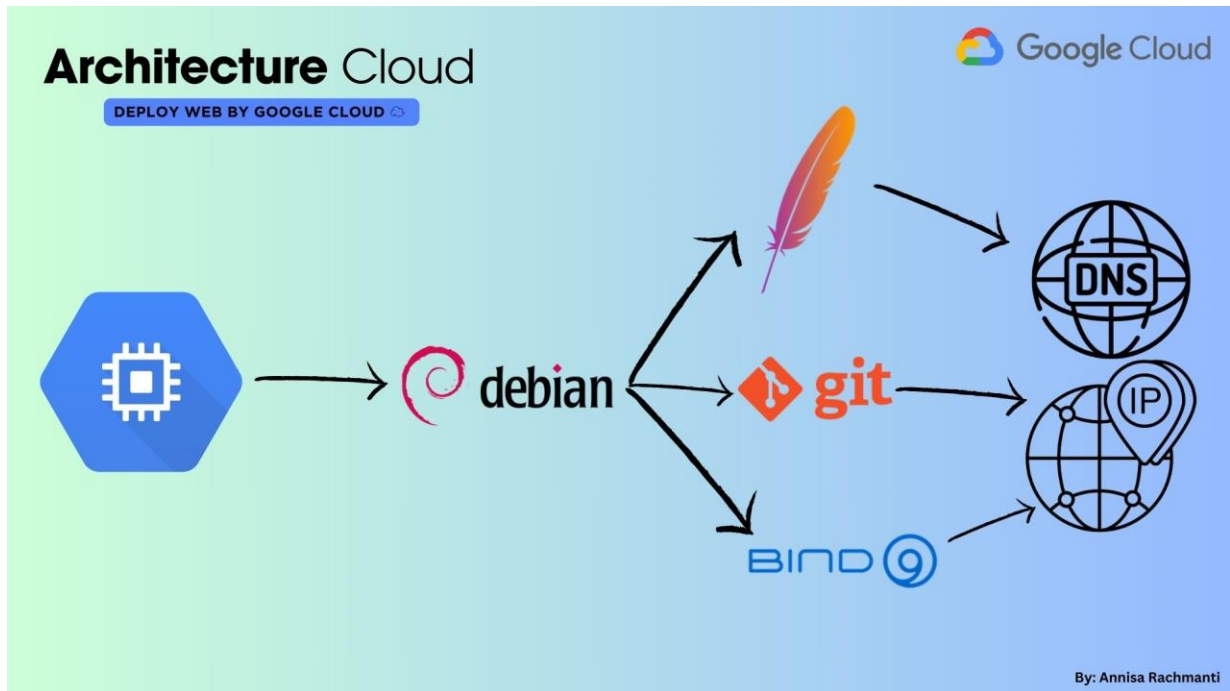
# Laporan Deploy Website di GCP

Dalam laporan ini, saya akan memberikan tutorial singkat tentang cara men-deploy portofolio website yang telah dibuat ke Google Cloud. Sebelum melanjutkan tutorialnya, saya akan memberi tahu apa sih itu Google Cloud Platform, Google Cloud Platform adalah layanan dari Google yang terdiri dari 4 layanan tersebut salah satunya **Google Compute Engine** yang saya akan gunakan.

Dalam laporan yang saya buat hasil rangkaian berikut:

- Architecture Cloud
- Screenshoot Create VM Instance
- Screenshoot install git
- Screenshoot install apache2
- Screenshoot git clone di /var/www/html/(direktori web kalian)
- Screenshoot sites-available dan sites-enable
- Screenshoot install bind9
- Screenshoot nano db.127
- Screenshoot nano db.local
- Screenshoot nano named.conf.default-zones
- Screenshoot nano named.conf.options
- Screenshoot nano /etc/resolv.conf
- Screenshoot register domain petrokimia-gresik.com
- Screenshoot hasil deploy web kalian by ip address
- Screenshoot hasil deploy web kalian by nama.petrokimia-gresik.com

## 1. Architecture Cloud



## 2. Create VM Instance

Men-deploy Layanan Web An x Compute Engine - demodepl x Region dan zona | Dokumen x +

console.cloud.google.com/compute/instancesAdd?hl=en&project=demodeployweb-410302&supportedpurview=project

Google Cloud demodeployweb vm Search

Create an instance EQUIVALENT CODE

To create a VM instance, select one of the options:

- New VM instance  
Create a single VM instance from scratch
- New VM instance from template  
Create a single VM instance from an existing template
- New VM instance from machine image  
Create a single VM instance from an existing machine image
- Marketplace  
Deploy a ready-to-go solution onto a VM instance

Name \* demoweb

MANAGE TAGS AND LABELS

Region \* asia-southeast2 (Jakarta) Zone \* asia-southeast2-a

Region is permanent Zone is permanent

Machine configuration

General purpose Compute optimized Memory optimized GPUs

Machine types for common workloads, optimized for cost and flexibility

Series	Description	vCPUs	Memory
<input type="radio"/> C3	Consistently high performance	4 - 176	8 - 1,408 GB
<input type="radio"/> C3D	Consistently high performance	4 - 360	8 - 2,880 GB
<input checked="" type="radio"/> E2	Low cost, day-to-day computing	0.25 - 32	1 - 128 GB
<input type="radio"/> N2	Balanced price & performance	2 - 128	2 - 864 GB
<input type="radio"/> N2D	Balanced price & performance	2 - 224	2 - 896 GB

Monthly estimate

\$33.41

That's about \$0.05 hourly

Pay for what you use: no upfront costs and per second billing

Item	Monthly estimate
2 vCPU + 4 GB memory	\$32.89
10 GB standard persistent disk	\$0.52
Total	\$33.41

Compute Engine pricing

LESS

CREATE CANCEL EQUIVALENT CODE

Memberi nama project sesuai yang ditentukan perprojectnya (Demoweb) > Region, Zone (asia-southeast2(Jakarta)) > Mechine configuration ( General purpose, E2)

**Create an instance**

To create a VM instance, select one of the options:

- New VM instance**  
Create a single VM instance from scratch
- New VM instance from template**  
Create a single VM instance from an existing template
- New VM instance from machine image**  
Create a single VM instance from an existing machine image
- Marketplace**  
Deploy a ready-to-go solution onto a VM instance

**Machine type**  
Choose a machine type with preset amounts of vCPUs and memory that suit most workloads. Or, you can create a custom machine for your workload's particular needs. [Learn more](#)

**PRESET** **CUSTOM**

**e2-medium (2 vCPU, 1 core, 4 GB memory)**

**vCPU**  
1-2 vCPU (1 shared core)

**Memory**  
4 GB

**CPU platform**  
Automatic

**vCPUs to core ratio**  
Visible core count

**ADVANCED CONFIGURATIONS**

**Availability policies**  
VM provisioning model: Standard  
Choose "Spot" to get a discounted, preemptible VM. Otherwise, stick to "Standard". [Learn more](#)

**VM PROVISIONING MODEL ADVANCED SETTINGS**

**Display device**

**Monthly estimate**  
**\$33.41**  
That's about \$0.05 hourly  
Pay for what you use: no upfront costs and per second billing

Item	Monthly estimate
2 vCPU + 4 GB memory	\$32.89
10 GB standard persistent disk	\$0.52
<b>Total</b>	<b>\$33.41</b>

[Compute Engine pricing](#)

[LESS](#)

**CREATE** **CANCEL** **EQUIVALENT CODE**

**Mechine type ( PRESET, e2-medium) > Availability policies (Standart)**

**Create an instance**

To create a VM instance, select one of the options:

- New VM instance**  
Create a single VM instance from scratch
- New VM instance from template**  
Create a single VM instance from an existing template
- New VM instance from machine image**  
Create a single VM instance from an existing machine image
- Marketplace**  
Deploy a ready-to-go solution onto a VM instance

**Display device**  
Enable to use screen capturing and recording tools.  
☐ Enable display device

**Confidential VM service**  
Confidential Computing is disabled on this VM instance  
**ENABLE**

**Container**  
Deploy a container image to this VM instance  
**DEPLOY CONTAINER**

**Boot disk**

<b>Name</b>	demoweb
<b>Type</b>	New standard persistent disk
<b>Size</b>	10 GB
<b>License type</b>	Free
<b>Image</b>	Debian GNU/Linux 11 (bullseye)

**CHANGE**

**Identity and API access**

**Monthly estimate**  
**\$33.41**  
That's about \$0.05 hourly  
Pay for what you use: no upfront costs and per second billing

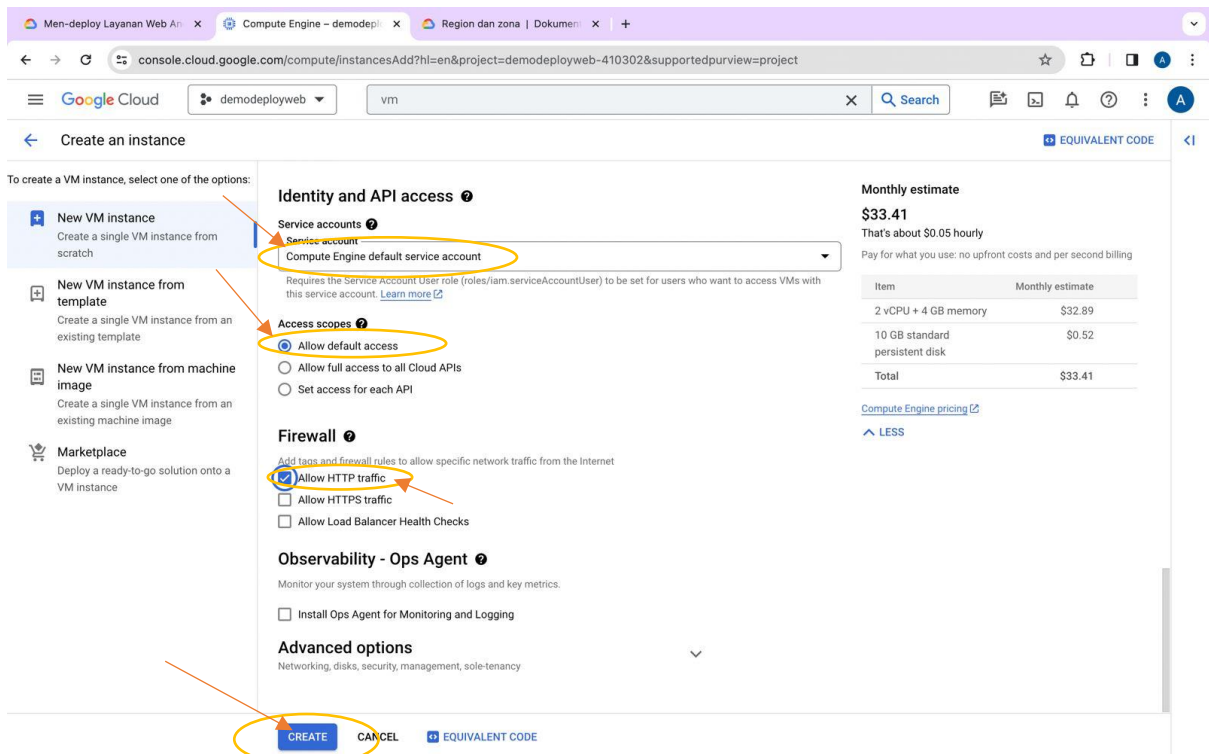
Item	Monthly estimate
2 vCPU + 4 GB memory	\$32.89
10 GB standard persistent disk	\$0.52
<b>Total</b>	<b>\$33.41</b>

[Compute Engine pricing](#)

[LESS](#)

**CREATE** **CANCEL** **EQUIVALENT CODE**

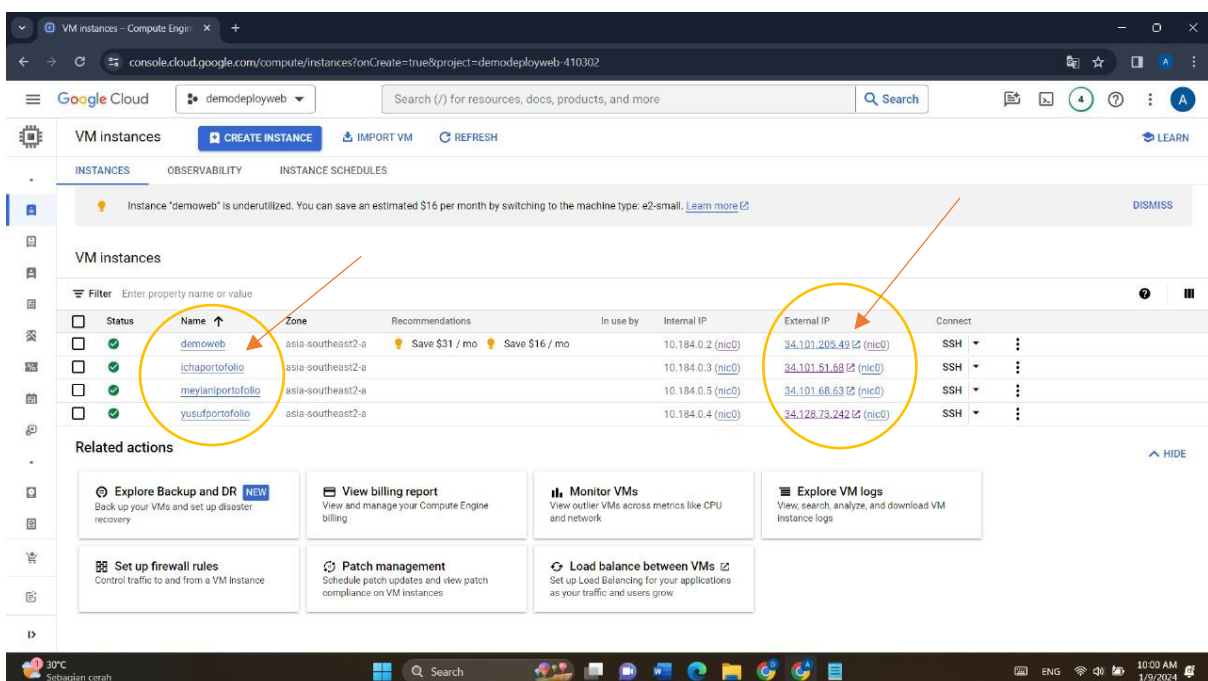
**Tidak ada yang perlu diganti jika ingin diganti disesuaikan dengan perintah projectnya saja.**



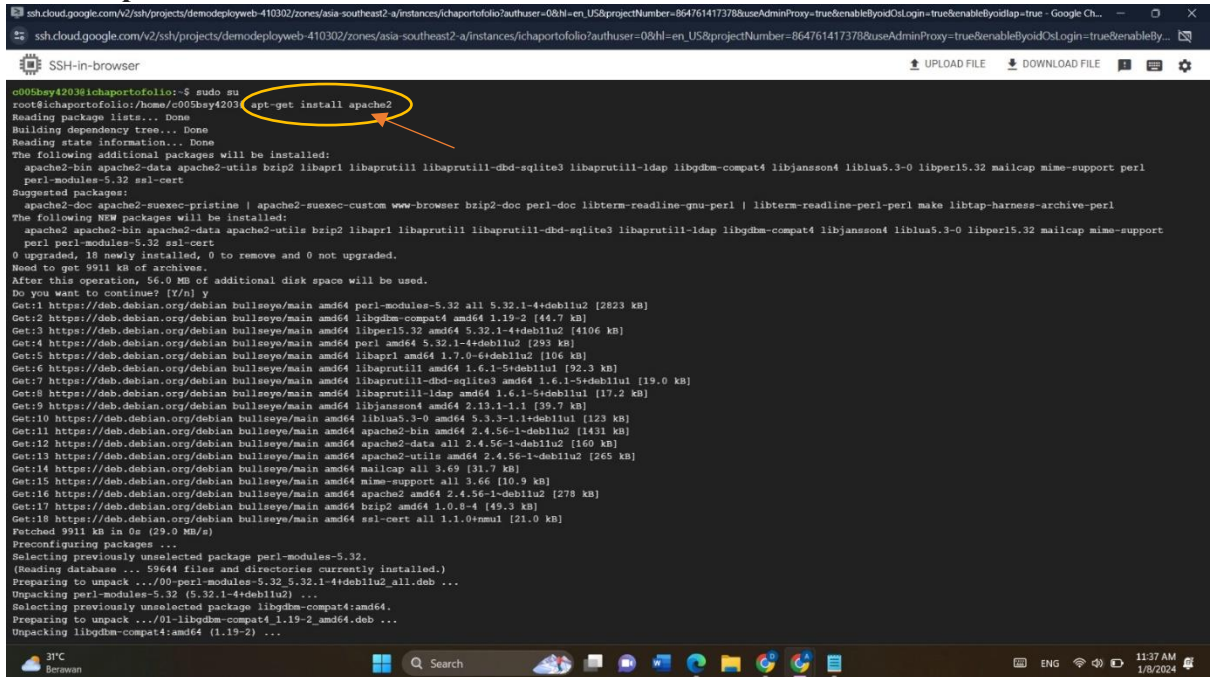
**Service account (Compute Engine default service account) > Access Scopes (Allow default access) > Firewall (Allow HTTP traffic) > Create**

Membuat Instance baru di Instance VM sesuai kan dengan nama project masing-masing, untuk region, zona sesuai dengan region/zona yang membuat, untuk Mechine configuration bisa menyesuaikan kebutuhan. Dan yang lainnya sesuaikan dengan kebutuhan. Setelah selesai, silahkan di klik button **Create**.

Hasil jika sudah berhasil dan mendapat ip public secara otomatis:



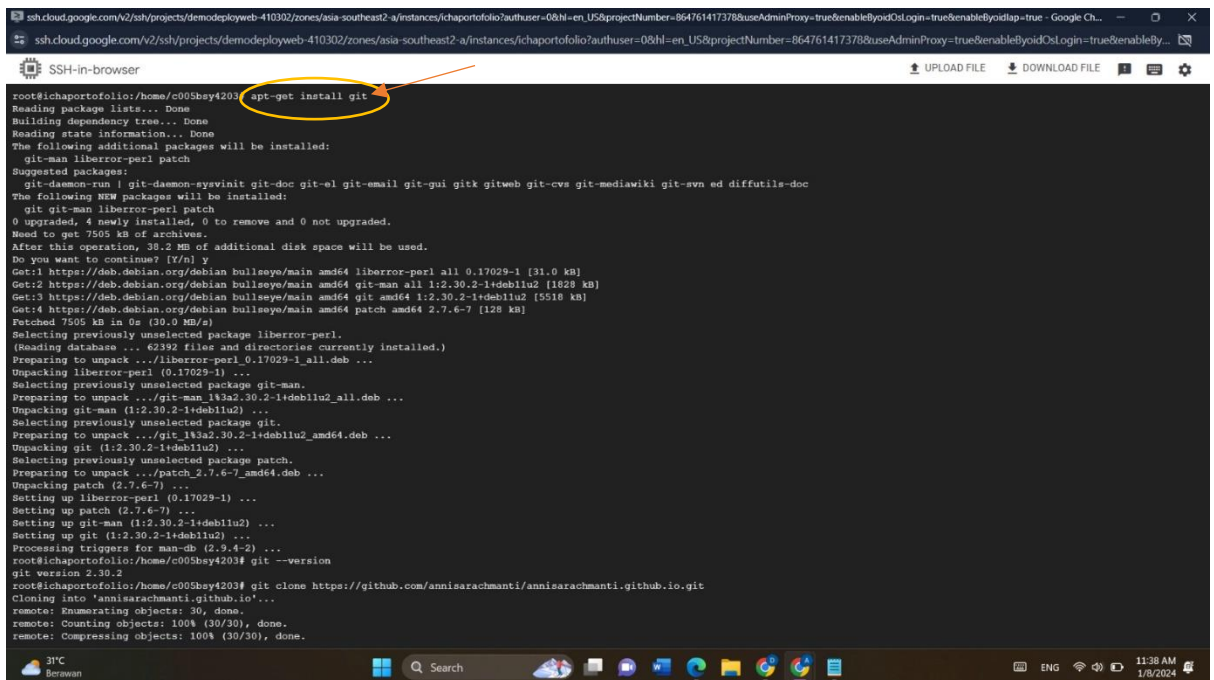
### 3. Install Apache2



```
ssh.cloud.google.com/v2/ssh/projects/demodployweb-410302/zones/asia-southeast2-a/instances/ichaportofolio?authuser=0&hl=en_US&projectNumber=864761417378&useAdminProxy=true&enableYoidOsLogin=true&enableYoidlap=true - Google Ch...
ssh.cloud.google.com/v2/ssh/projects/demodployweb-410302/zones/asia-southeast2-a/instances/ichaportofolio?authuser=0&hl=en_US&projectNumber=864761417378&useAdminProxy=true&enableYoidOsLogin=true&enableY...
SSH-in-browser
c005bshy4203@ichaportofolio:~$ sudo su
root@ichaportofolio:/home/c005bshy4203# apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libgdbm-compat4 libjansson4 liblua5.3-0 libperl5.32 mailcap mime-support perl
  perl-modules-5.32 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser bzip2-doc perl-doc libterm-readline-gnu-perl | libterm-readline-perl-perl make libtap-harness-archive-perl
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libgdbm-compat4 libjansson4 liblua5.3-0 libperl5.32 mailcap mime-support
  perl perl-modules-5.32 ssl-cert
0 upgraded, 18 newly installed, 0 to remove and 0 not upgraded.
Need to get 9911 kB of archives.
After this operation, 56.0 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://deb.debian.org/debian bullseye/main amd64 perl-modules-5.32 all 5.32.1-4+deb11u2 [2823 kB]
Get:2 https://deb.debian.org/debian bullseye/main amd64 libgdbm-compat4 amd64 1.19-2 [44.7 kB]
Get:3 https://deb.debian.org/debian bullseye/main amd64 libperl5.32 amd64 5.32.1-4+deb11u2 [4106 kB]
Get:4 https://deb.debian.org/debian bullseye/main amd64 perl amd64 5.32.1-4+deb11u2 [293 kB]
Get:5 https://deb.debian.org/debian bullseye/main amd64 libapr1 amd64 1.7.0-4+deb11u2 [106 kB]
Get:6 https://deb.debian.org/debian bullseye/main amd64 libaprutil1 amd64 1.6.1-5+deb11u1 [92.3 kB]
Get:7 https://deb.debian.org/debian bullseye/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-5+deb11u1 [19.0 kB]
Get:8 https://deb.debian.org/debian bullseye/main amd64 libaprutil1-ldap amd64 1.6.1-5+deb11u1 [17.2 kB]
Get:9 https://deb.debian.org/debian bullseye/main amd64 libjansson4 amd64 2.13.1-1 [59.7 kB]
Get:10 https://deb.debian.org/debian bullseye/main amd64 liblua5.3-0 amd64 5.3.3-1.1+deb11u1 [123 kB]
Get:11 https://deb.debian.org/debian bullseye/main amd64 apache2-bin amd64 2.4.56-1+deb11u2 [1431 kB]
Get:12 https://deb.debian.org/debian bullseye/main amd64 apache2-data all 2.4.56-1+deb11u2 [160 kB]
Get:13 https://deb.debian.org/debian bullseye/main amd64 apache2-utils amd64 2.4.56-1+deb11u2 [265 kB]
Get:14 https://deb.debian.org/debian bullseye/main amd64 mailcap all 3.69 [31.7 kB]
Get:15 https://deb.debian.org/debian bullseye/main amd64 mime-support all 3.66 [10.9 kB]
Get:16 https://deb.debian.org/debian bullseye/main amd64 apache2 amd64 2.4.56-1+deb11u2 [279 kB]
Get:17 https://deb.debian.org/debian bullseye/main amd64 bzip2 amd64 1.0.8-4 [49.3 kB]
Get:18 https://deb.debian.org/debian bullseye/main amd64 ssl-cert all 1.1.0+nmul [21.0 kB]
Fetched 9911 kB in 16s (250.0 MB/s)
Preconfiguring packages ...
Selecting previously unselected package perl-modules-5.32.
(Reading database ... 59644 files and directories currently installed.)
Preparing to unpack .../00-perl-modules-5.32_5.32.1-4+deb11u2_all.deb ...
Unpacking perl-modules-5.32 (5.32.1-4+deb11u2) ...
Selecting previously unselected package libgdbm-compat4:amd64.
Preparing to unpack .../01-libgdbm-compat4_1.19-2_amd64.deb ...
Unpacking libgdbm-compat4:amd64 (1.19-2) ...
```

Lalu, buka terminal lewat ssh yang sudah berasal dibuat di vm instance tadi, install paket dengan perintah **apt-get install apache2**.

### 4. Install Git

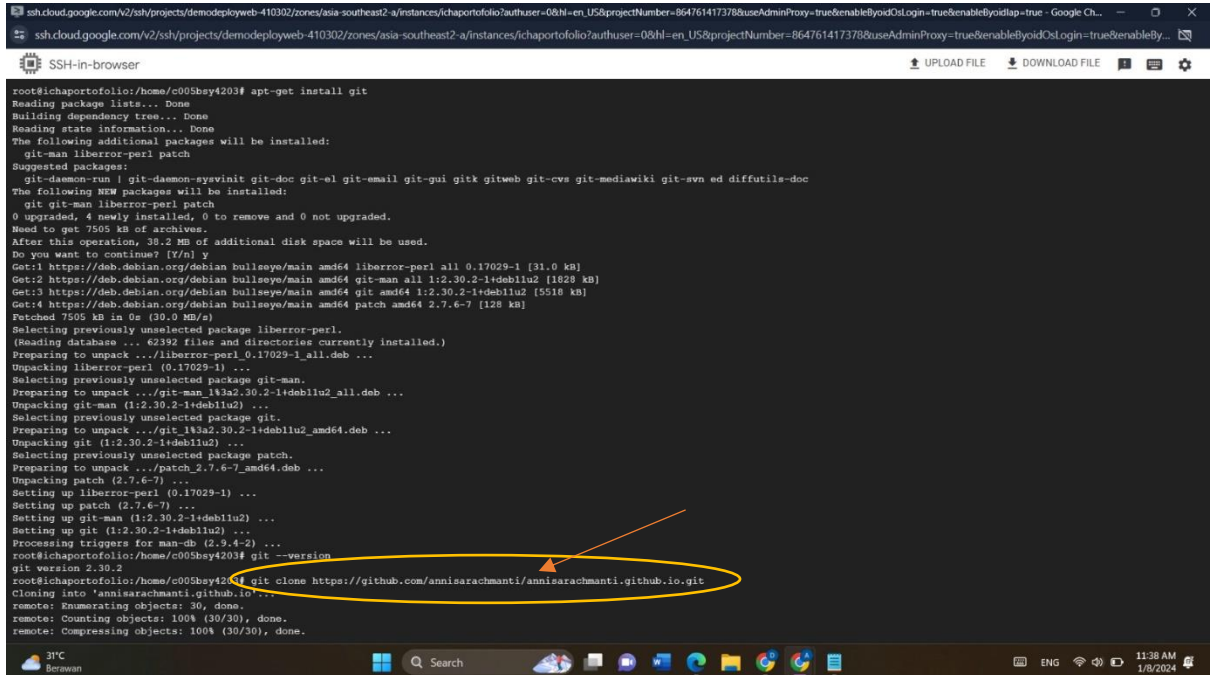


```
ssh.cloud.google.com/v2/ssh/projects/demodployweb-410302/zones/asia-southeast2-a/instances/ichaportofolio?authuser=0&hl=en_US&projectNumber=864761417378&useAdminProxy=true&enableYoidOsLogin=true&enableYoidlap=true - Google Ch...
ssh.cloud.google.com/v2/ssh/projects/demodployweb-410302/zones/asia-southeast2-a/instances/ichaportofolio?authuser=0&hl=en_US&projectNumber=864761417378&useAdminProxy=true&enableYoidOsLogin=true&enableY...
SSH-in-browser
root@ichaportofolio:/home/c005bshy4203# apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  git-man liberror-perl patch
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn ed diffutils-doc
The following NEW packages will be installed:
  git git-man liberror-perl patch
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 7505 kB of archives.
After this operation, 38.2 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://deb.debian.org/debian bullseye/main amd64 liberror-perl all 0.17029-1 [31.0 kB]
Get:2 https://deb.debian.org/debian bullseye/main amd64 git-man all 1:2.30.2-1+deb11u2 [1828 kB]
Get:3 https://deb.debian.org/debian bullseye/main amd64 git amd64 1:2.30.2-1+deb11u2 [5518 kB]
Get:4 https://deb.debian.org/debian bullseye/main amd64 patch amd64 2.7.6-7 [128 kB]
Fetched 7505 kB in 16s (250.0 MB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 62392 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...
Unpacking liberror-perl (0.17029-1) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1:2.30.2-1+deb11u2_all.deb ...
Unpacking git-man (1:2.30.2-1+deb11u2) ...
Selecting previously unselected package git.
Preparing to unpack .../git_1:2.30.2-1+deb11u2_amd64.deb ...
Unpacking git (1:2.30.2-1+deb11u2) ...
Selecting previously unselected package patch.
Preparing to unpack .../patch_2.7.6-7_amd64.deb ...
Unpacking patch (2.7.6-7) ...
Setting up liberror-perl (0.17029-1) ...
Setting up patch (2.7.6-7) ...
Setting up git-man (1:2.30.2-1+deb11u2) ...
Setting up git (1:2.30.2-1+deb11u2) ...
Processing triggers for man-db (2.9.4-2) ...
root@ichaportofolio:/home/c005bshy4203# git --version
git version 2.30.2
root@ichaportofolio:/home/c005bshy4203# git clone https://github.com/annisarachanti/annisarachanti.github.io.git
Cloning into 'annisarachanti.github.io' ...
remote: Enumerating objects: 30, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (30/30), done.
```

Lalu, install Git dengan perintah **apt-get install git**



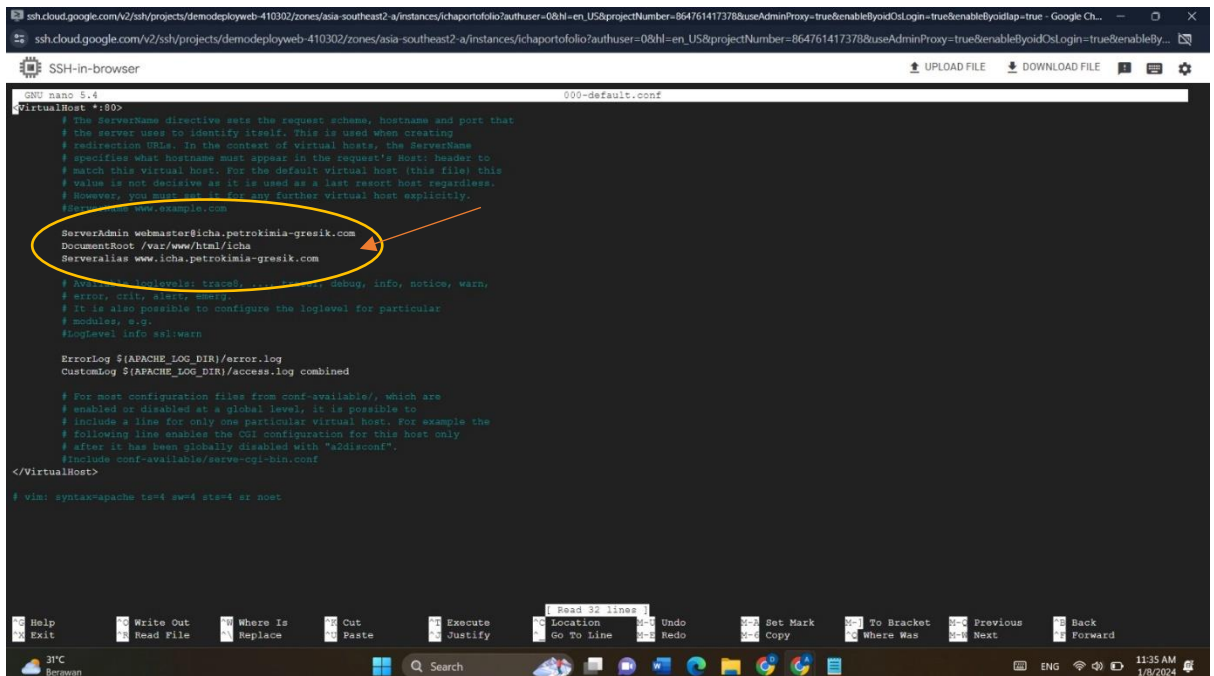
## 5. Git clone di /var/www/html



```
root@ichaportofolio:/home/c005bty4203# apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  git-man liberror-perl patch
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn ed diffutils-doc
The following NEW packages will be installed:
  git git-man liberror-perl patch
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 7505 kB of archives.
After this operation, 38.2 MB of additional disk space will be used.
Get:1 https://deb.debian.org/debian bullseye/main amd64 liberror-perl all 0.17029-1 (31.0 kB)
Get:2 https://deb.debian.org/debian bullseye/main amd64 git-man all 1:2.30.2-1+deb11u2 (1828 kB)
Get:3 https://deb.debian.org/debian bullseye/main amd64 git amd64 1:2.30.2-1+deb11u2 [5518 kB]
Get:4 https://deb.debian.org/debian bullseye/main amd64 patch amd64 2.7.6-7 (128 kB)
Fetched 7505 kB in 0s (30.0 MB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 62392 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...
Unpacking liberror-perl (0.17029-1) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1:2.30.2-1+deb11u2_all.deb ...
Unpacking git-man (1:2.30.2-1+deb11u2) ...
Selecting previously unselected package git.
Preparing to unpack .../git_1:2.30.2-1+deb11u2_amd64.deb ...
Unpacking git (1:2.30.2-1+deb11u2) ...
Selecting previously unselected package patch.
Preparing to unpack .../patch_2.7.6-7_amd64.deb ...
Unpacking patch (2.7.6-7) ...
Setting up liberror-perl (0.17029-1) ...
Setting up patch (2.7.6-7) ...
Setting up git-man (1:2.30.2-1+deb11u2) ...
Setting up git (1:2.30.2-1+deb11u2) ...
Processing triggers for man-db (2.9.4-2) ...
root@ichaportofolio:/home/c005bty4203# git --version
git version 2.30.2
root@ichaportofolio:/home/c005bty4203# git clone https://github.com/annisarachanti/annisarachanti.github.io.git
Cloning into 'annisarachanti.github.io' ...
remote: Enumerating objects: 30, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (30/30), done.
```

Unduh repository ke dalam komputer menggunakan perintah git clone . Url repository dapat dilihat di dalam repository yang diinginkan, menggunakan perintah **git clone link github**.

## 6. Sites-available dan sites-enable



```
GNU nano 5.4 000-default.conf
VirtualHost *:80>
# The ServerName directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must use it for any further virtual host explicitly.
#Example: www.example.com
#ServerName www.example.com

ServerAdmin webmaster@icha.petrokimia-gresik.com
DocumentRoot /var/www/html/icha
ServerAlias www.icha.petrokimia-gresik.com

# Aerial loglevel: trace, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#loglevel info sslwarn

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

# For most configuration files from conf-available/, which are
# enabled or disabled at a global level, it is possible to
# include a line for only one particular virtual host. For example the
# following line enables the CGI configuration for this host only
# after it has been globally disabled with "a2disconf".
#include conf-available/serve-cgi-bin.conf

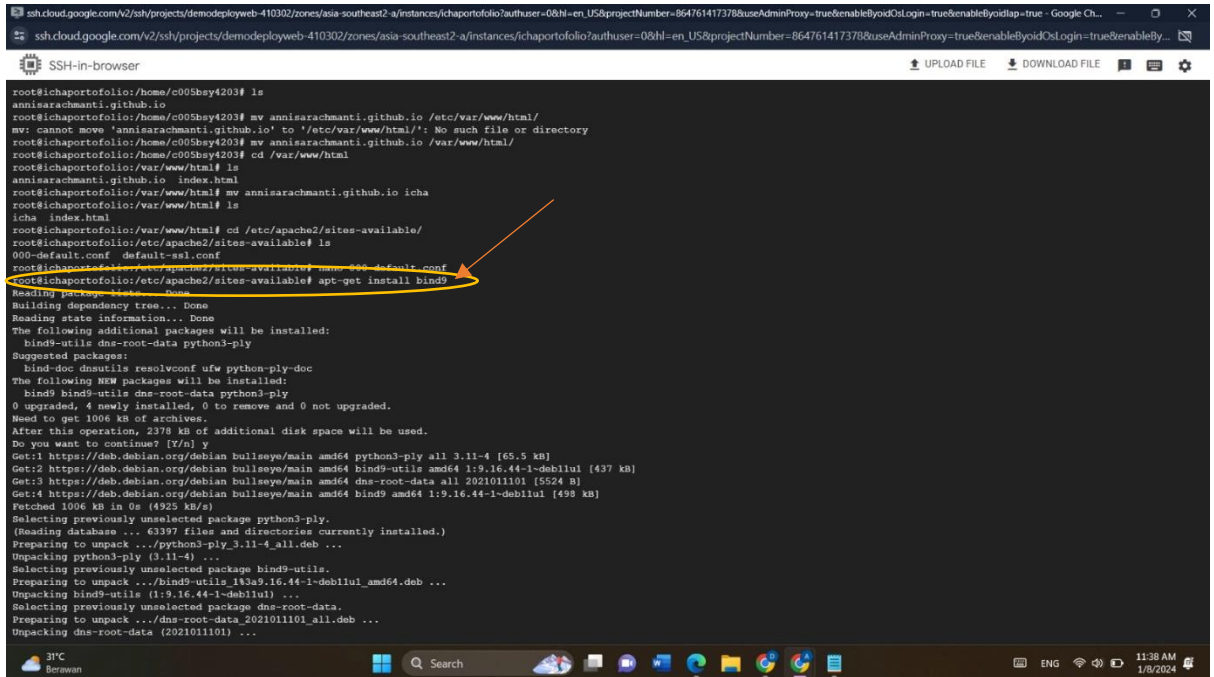
</VirtualHost>

! vim: syntax=ruby ts=4 sw=4 sts=4 sr nost
```

Buat Directory Konfigurasi Virtual Host. Perlu membuat **sites-available** dan **sites-enable** untuk menyimpan file konfigurasi Virtual Host. Dengan perintah masuk directory apache2 dahulu `cd /etc/apache2`, lalu `ls` untuk mengetahui isi folder (ada apa saja) setelah itu masuk ke file `000-default.conf` dengan perintah `nano 000-default.conf`, ganti **Webmaster** dengan domain yang sudah dibuat,

DocumentRoot tambahkan nama file yang dibuat di konfigurasi sebelumnya, dan tambahkan ServerAlias dibawahnya dan ditambah www. nama domain.

## 7. Install Bind9

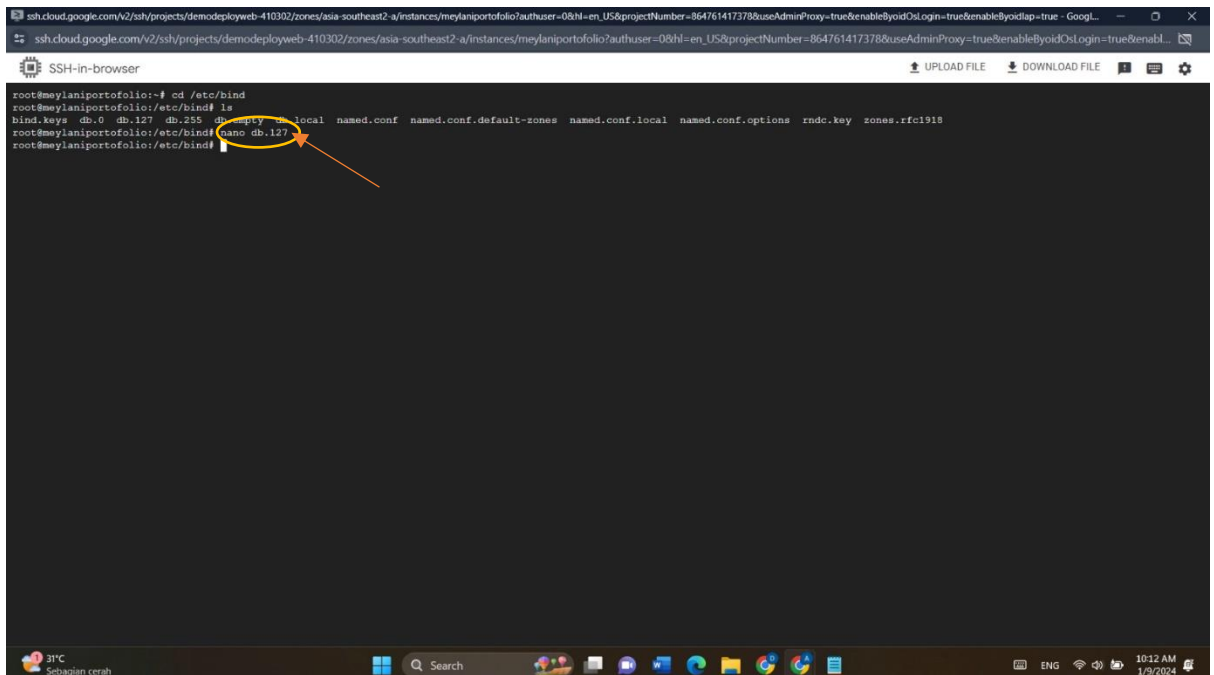


```
root@ichaportfolio:~/home/c005bsey4203# ls
annisarachanti.github.io
root@ichaportfolio:~/home/c005bsey4203# mv annisarachanti.github.io /etc/var/www/html/
mv: cannot move 'annisarachanti.github.io' to '/etc/var/www/html/': No such file or directory
root@ichaportfolio:~/home/c005bsey4203# mv annisarachanti.github.io /var/www/html/
root@ichaportfolio:~/home/c005bsey4203# cd /var/www/html/
root@ichaportfolio:~/var/www/html# ls
annisarachanti.github.io index.html
root@ichaportfolio:~/var/www/html# mv annisarachanti.github.io icha
root@ichaportfolio:~/var/www/html# ls
icha index.html
root@ichaportfolio:~/var/www/html# cd /etc/apache2/sites-available/
root@ichaportfolio:~/etc/apache2/sites-available# ls
000-default.conf default-ssl.conf
root@ichaportfolio:~/etc/apache2/sites-available# mv 000-default.conf
root@ichaportfolio:~/etc/apache2/sites-available# apt-get install bind9
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bind9-utils dns-root-data python3-ply
Suggested packages:
  bind-doc dnsmutils resolvconf ufw python-ply-doc
The following NEW packages will be installed:
  bind9 bind9-utils dns-root-data python3-ply
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 1006 kB of archives.
After this operation, 2378 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://deb.debian.org/debian bullseye/main amd64 python3-ply all 3.11-4 [65.5 kB]
Get:2 https://deb.debian.org/debian bullseye/main amd64 bind9-utils amd64 1:9.16.44-1-deb11u1 [437 kB]
Get:3 https://deb.debian.org/debian bullseye/main amd64 dns-root-data all 2021011101 [5524 B]
Get:4 https://deb.debian.org/debian bullseye/main amd64 bind9 amd64 1:9.16.44-1-deb11u1 [498 kB]
Fetched 1006 kB in 0s (4925 kB/s)
Selecting previously unselected package python3-ply.
(Reading database ... 63397 files and directories currently installed.)
Preparing to unpack .../python3-ply_3.11-4_all.deb ...
Unpacking python3-ply (3.11-4) ...
Selecting previously unselected package bind9-utils.
Preparing to unpack .../bind9-utils_1:9.16.44-1-deb11u1_amd64.deb ...
Unpacking bind9-utils (1:9.16.44-1-deb11u1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../dns-root-data_2021011101_all.deb ...
Unpacking dns-root-data (2021011101) ...
```

Lalu, mengunduh salah satu aplikasi linux yang dapat digunakan sebagai DNS Server yaitu disebut Bind9 dengan perintah **apt-get install bind9**

## 8. db.127

*Perintah :*

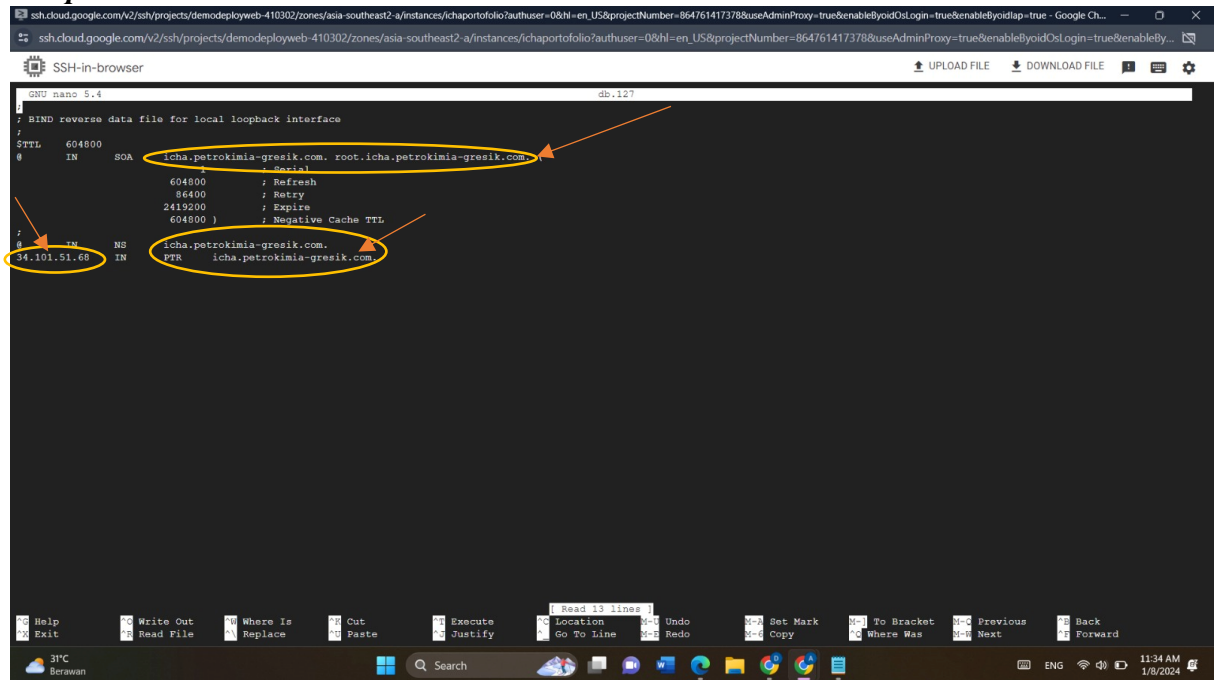


```
root@meylaniporfolio:~# cd /etc/bind
root@meylaniporfolio:~/etc/bind# ls
bind.keys db.0 db.127 db.255 db.empty local named.conf named.conf.default-zones named.conf.local named.conf.options rndc.key zones.rfc1918
root@meylaniporfolio:~/etc/bind#
```



**nano db.127 > enter.** Lalu, masuk db.127 dengan perintah **nano db.127** untuk file reverse/mentranslasikan IP ke domain,

**Tampilan :**

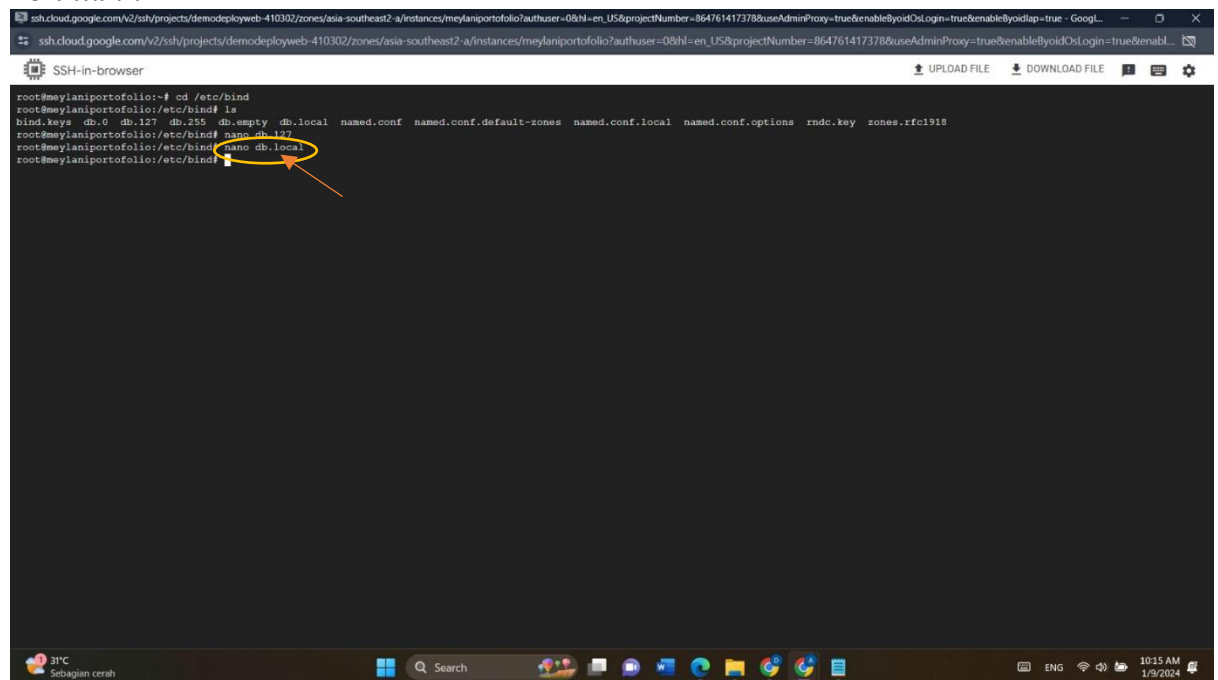


```
GNU nano 5.4 db.127
; BIND reverse data file for local loopback interface
;
$TTL 604800
@ IN SOA icha.petrokimia-gresik.com. root.icha.petrokimia-gresik.com.
      604800      ; Refresh
      86400       ; Retry
      2419200    ; Expire
      604800 )   ; Negative Cache TTL
;
@ IN NS      icha.petrokimia-gresik.com.
34.101.51.60 IN PTR    icha.petrokimia-gresik.com.
```

Setelah di enter akan muncul tampilan sesuai gambar diatas, local host diganti dengan nama domain web yang akan dibuka nanti di chrome dan ganti ip dari gcp.

## 9. db.local

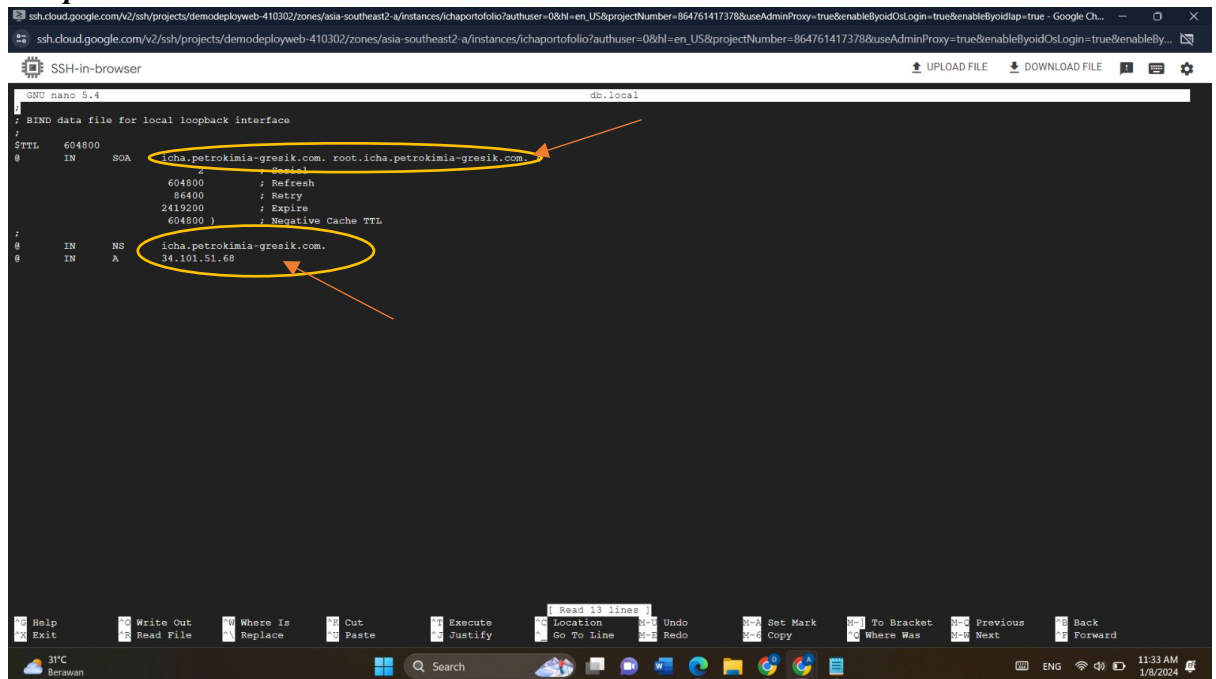
**Perintah :**



```
root@meylaniportfolio:~# cd /etc/bind
root@meylaniportfolio:/etc/bind# ls
bind.keys  db.0  db.127  db.255  db.empty  db.local  named.conf  named.conf.default-zones  named.conf.local  named.conf.options  rndc.key  zones.rfc1918
root@meylaniportfolio:/etc/bind# nano db.local
root@meylaniportfolio:/etc/bind#
```

**db.local > enter.** Lalu, membuka dan mengganti isi db.local dengan perintah **nano db.local** untuk file forward/ mentranslasikan domain ke IP.

## Tampilan :

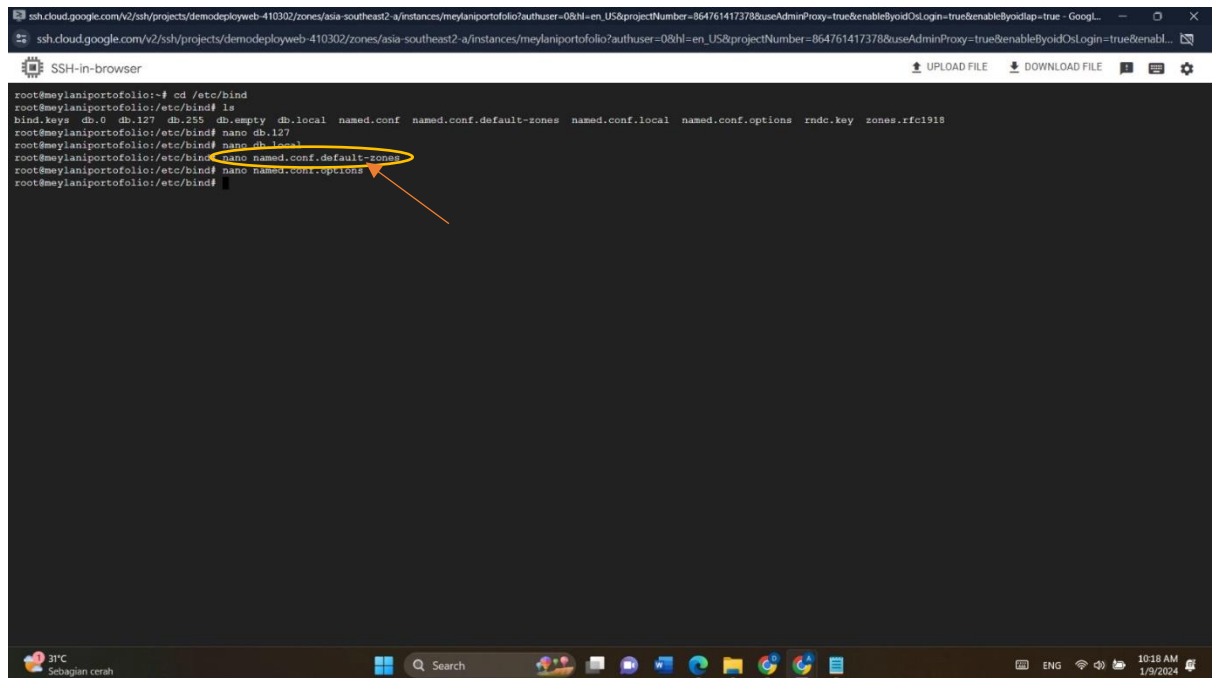


```
GNU nano 5.4 db.local
; BIND data file for local loopback interface
$TTL 604800
@ IN SOA icha.petrokimia-gresik.com. root.icha.petrokimia-gresik.com.
      604800      ; Refresh
      86400       ; Retry
      2419200    ; Expire
      604800     ; Negative Cache TTL
;
@ IN NS  icha.petrokimia-gresik.com.
@ IN A   34.101.51.68
```

Jika setelah di enter muncul seperti gambar diatas, ganti local host dengan nama domain yang sudah dibuat dan ip public yang ada di gcp untuk dibuka di chrome.

## 10. named.conf.default-zones

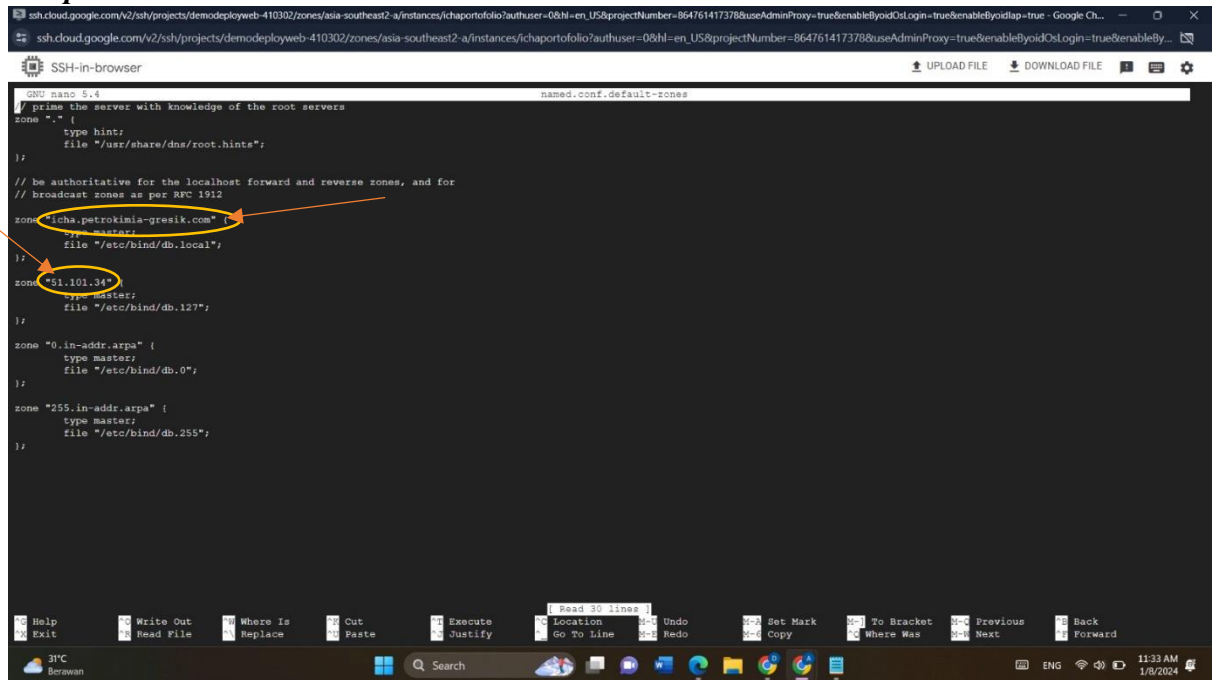
### Perintah:



```
root@meylaniporfolio:~# cd /etc/bind
root@meylaniporfolio:/etc/bind# ls
bind.keys  db.0  db.127  db.255  db.empty  db.local  named.conf  named.conf.default-zones  named.conf.local  named.conf.options  rndc.key  zones.rfc1918
root@meylaniporfolio:/etc/bind# nano db.local
root@meylaniporfolio:/etc/bind# nano named.conf.default-zones
root@meylaniporfolio:/etc/bind# nano named.conf.options
root@meylaniporfolio:/etc/bind#
```

**nano named.conf.default-zones** > enter. Dengan menuliskan perintah sebagai berikut. **Nano named.conf.default-zones** lalu tekan enter.

## Tampilan:



```
named.conf.default-zones
// prime the server with knowledge of the root servers
zone "." {
    type hint;
    file "/usr/share/dns/root.hints";
};

// be authoritative for the localhost forward and reverse zones, and for
// broadcast zones as per RFC 1912
zone "localhost" {
    type master;
    file "/etc/bind/db.localhost";
};

zone "61.101.34" {
    type master;
    file "/etc/bind/db.127";
};

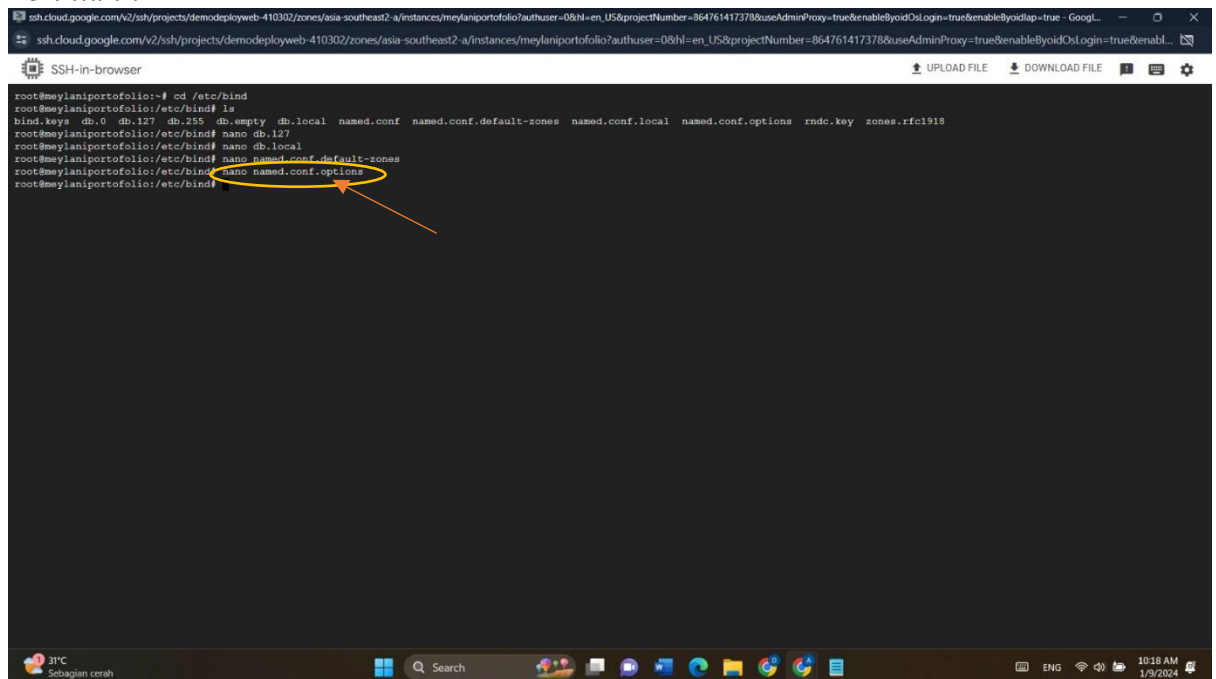
zone "0.in-addr.arpa" {
    type master;
    file "/etc/bind/db.0";
};

zone "255.in-addr.arpa" {
    type master;
    file "/etc/bind/db.255";
};
```

Setelah muncul tampilan seperti gambar diatas, Setelah mengcopy file yang akan di konfigurasi sekarang masuk ke editor untuk meng edit **named.conf.default-zones**. Maka akan muncul tampilan seperti ini, ganti zone dengan nama domain dan zone selanjutnya diganti ip oktet 3.2.1.

## 11. named.conf.options

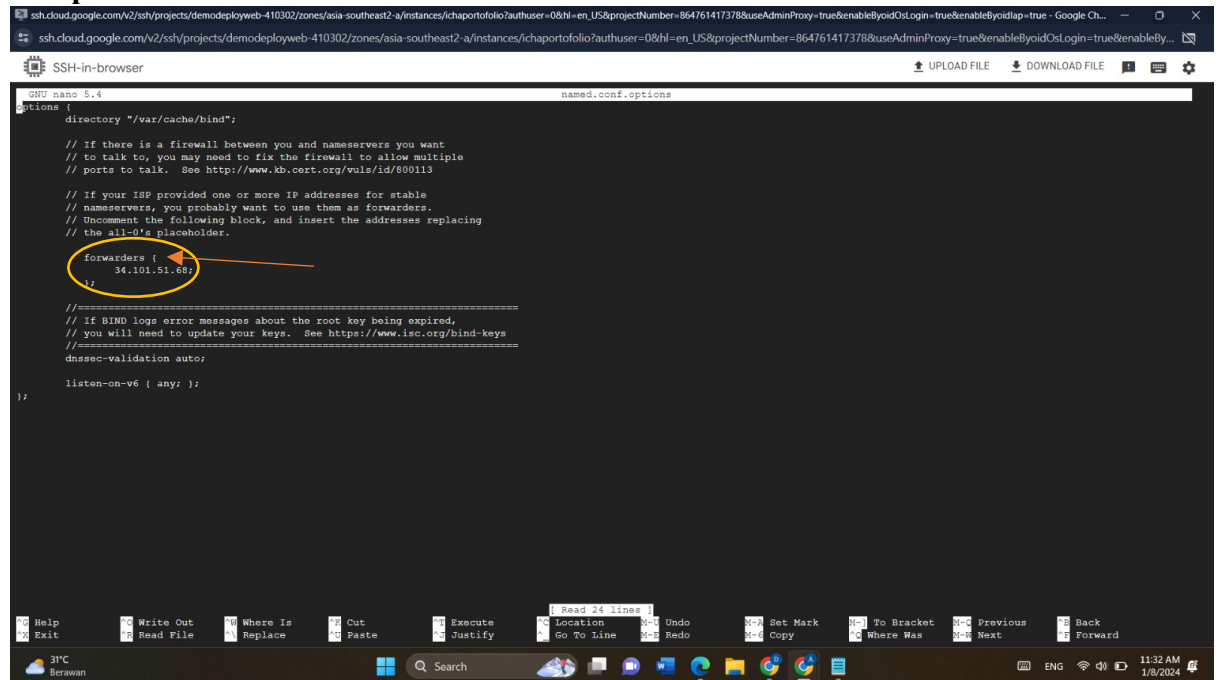
### Perintah :



```
root@meilaniportfolio:~# cd /etc/bind
root@meilaniportfolio:~# cd /etc/bind# ls
bind.keys db.0 db.127 db.255 db.empty db.local named.conf named.conf.default-zones named.conf.local named.conf.options rndc.key zones.rfc1918
root@meilaniportfolio:~# cd /etc/bind# nano db.127
root@meilaniportfolio:~# cd /etc/bind# nano db.local
root@meilaniportfolio:~# cd /etc/bind# nano named.conf.default-zones
root@meilaniportfolio:~# cd /etc/bind# nano named.conf.options
root@meilaniportfolio:~# cd /etc/bind#
```

**nano named.conf.options > enter.** Lalu membuka named.conf.options untuk mendefinisikan di mana letak file-file yang akan dituju oleh DNS, membuka dengan perintah **nano named.conf.options**.

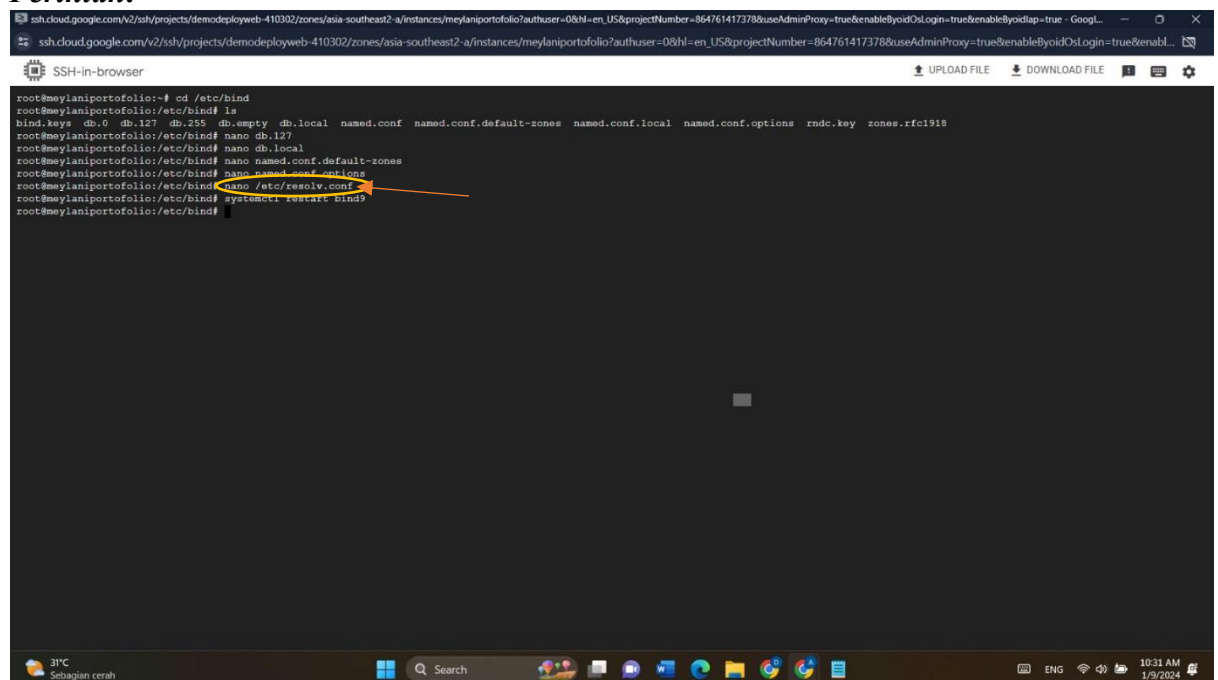
**Tampilan:**



Jika sudah diter maka muncul seperti gambar diatas, mengganti ip forwarders dan menilangkan // nya dan yang sebelumnya 0.0.0.0 menjadi ip masing” yang diberi gcp tadi.

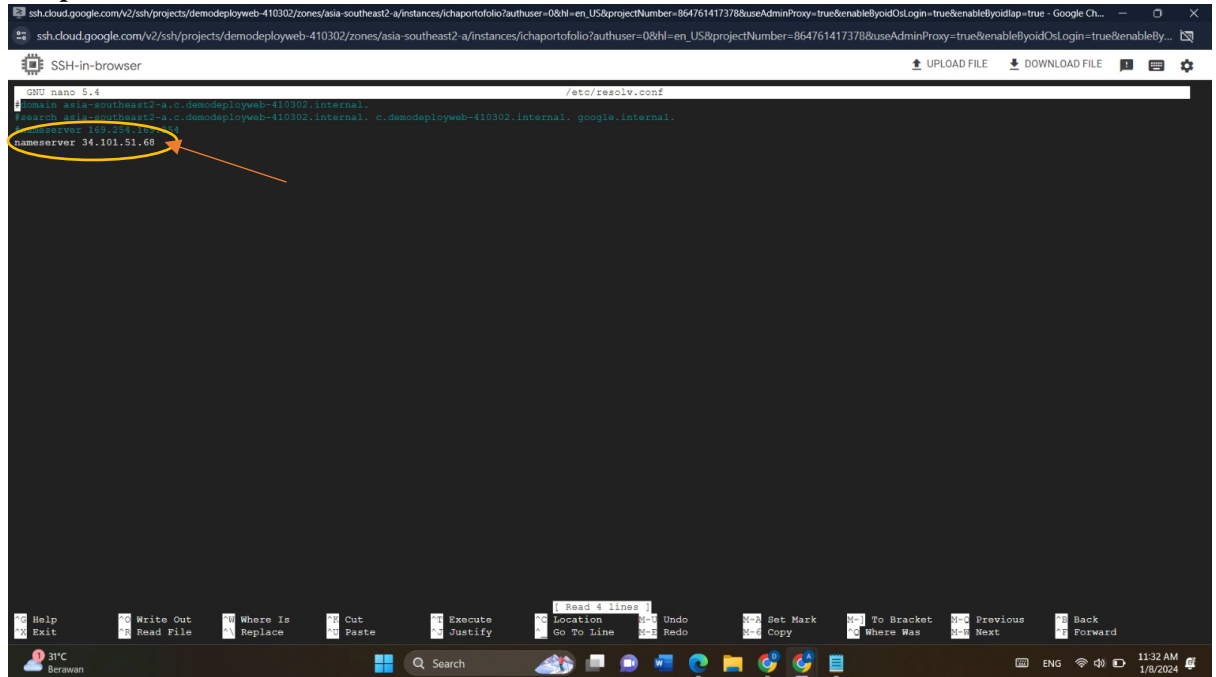
## 12. resolv.conf

**Perintah:**



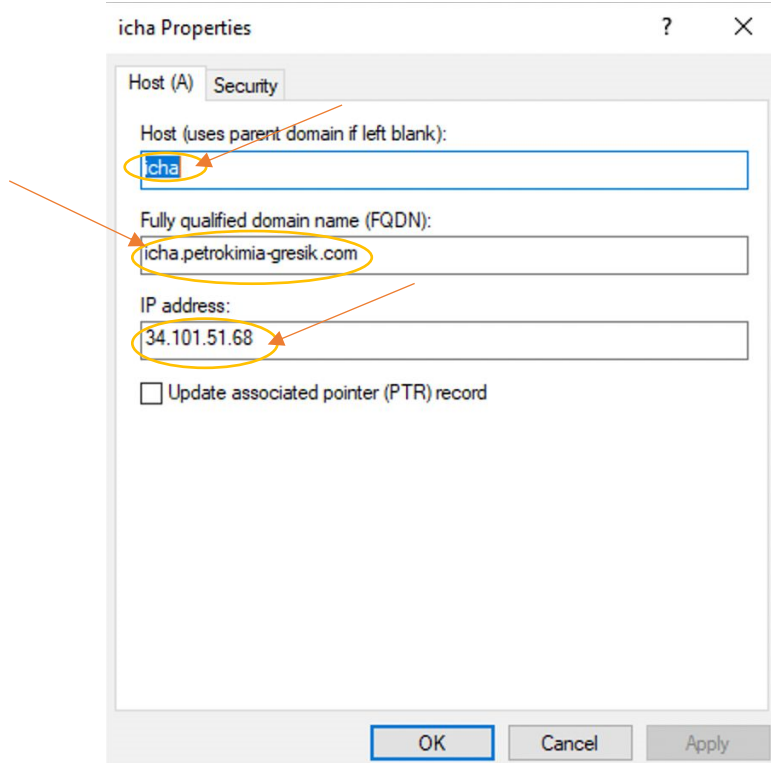
**nano /etc/resolv.conf > enter.** Setelah itu buka file resolv.conf dengan perintah **nano /etc/resolv.conf**.

### Tampilan :



Lalu, buka resolv.conf untuk settingan IP address tidak menyertakan domain name dan dimatikan yang sudah tersedia menggunakan # untuk mematikannya dan menambah nameserver dan ip di barisan terakhir.

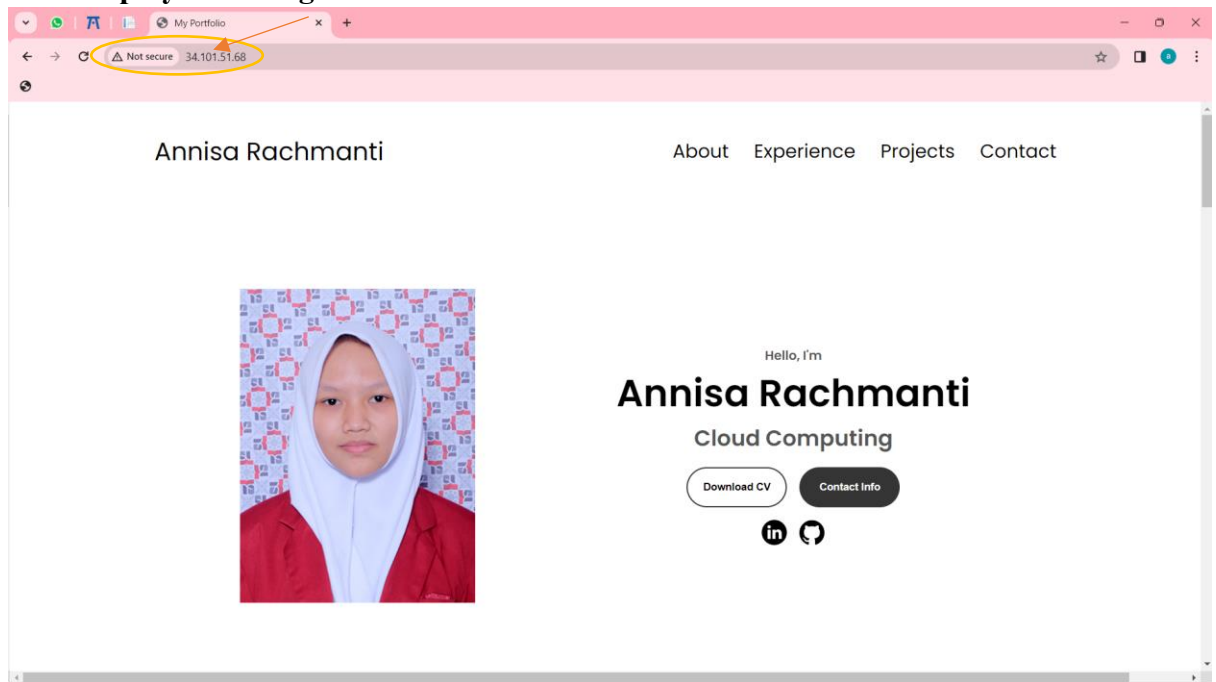
### 13. Register domain petrokimia-gresik.com



Selanjutnya, registrasikan nama domain dan ip kalian ke domain yang disediakan agar domain bisa dibuka di chrome.

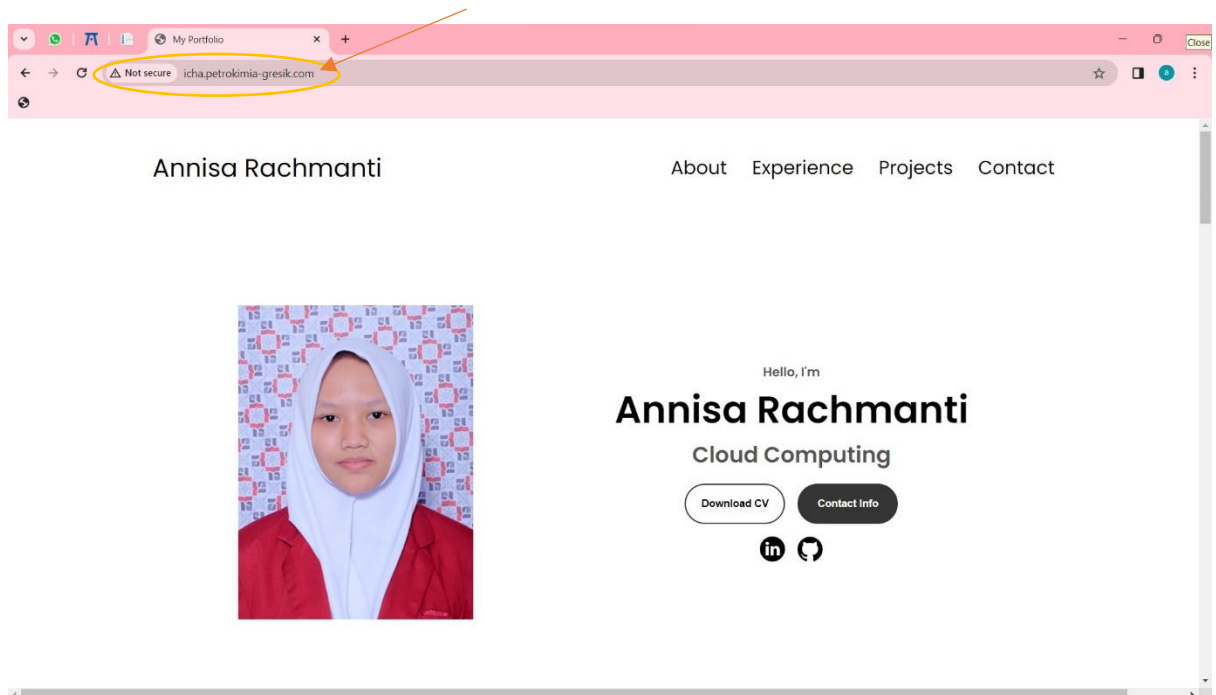


#### 14. Hasil deploy web dengan IP Address



Hasil jika berhasil deploy dengan IP Address bisa dibuka melalui chrome.

#### 15. Hasil deploy web dengan nama.petrokimia-gresik.com



Hasil jika deploy web bisa tampil dengan nama domain nama.petrokimia-gresik.com seperti nama saya icha.petrokimia-gresik.com melalui chrome.

-TERIMA KASIH-