



Google Cloud



APACHE
HTTP SERVER PROJECT



MySQL®

phpMyAdmin



Setup Web Server VPS Ubuntu
di Google Cloud Platform [GCP]

→ Go to project settings

→ [Go to APIs overview](#)

➔ Go to Cloud status dashboard

→ [View detailed charges](#)

Set up alerting policies

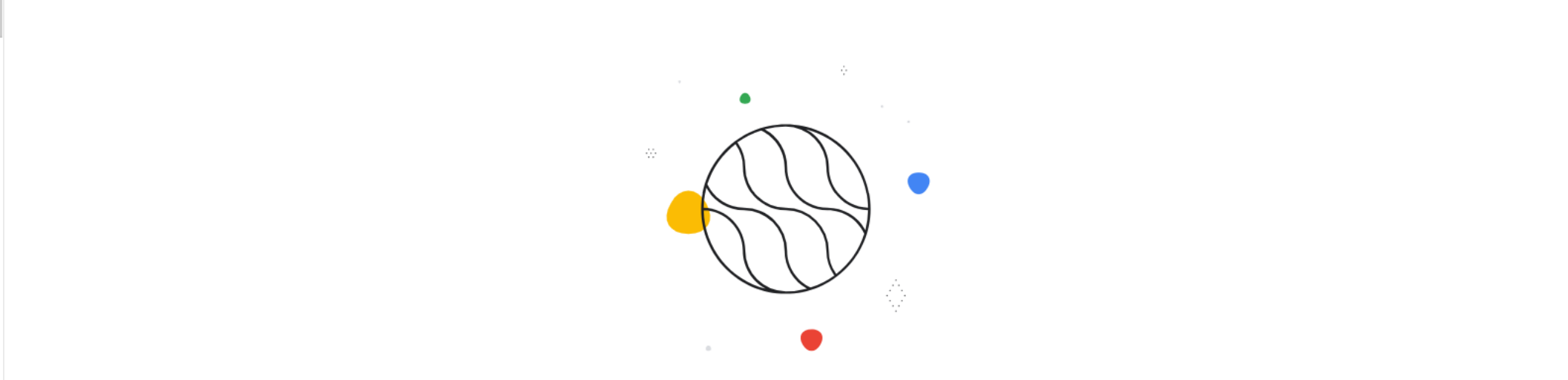
- Virtual machines
 - VM instances
 - Instance templates
 - Sole-tenant nodes
 - Machine images
 - TPUs
 - Committed use discounts
 - Reservations
 - Migrate to Virtual Machin...
- Storage
 - Disks
 - Snapshots
- Marketplace
- Release Notes

VM instances INSTANCES OBSERVABILITY INSTANCE SCHEDULES

VM instances

Filter Enter property name or value

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
--------	------	------	-----------------	-----------	-------------	-------------	---------



VM Instances

Compute Engine lets you use virtual machines that run on Google's infrastructure. Create micro-VMs or larger instances running Debian, Windows, or other standard images. Create your first VM instance, import it using a migration service, or try the quickstart to build a sample app.

CREATE INSTANCE TAKE THE QUICKSTART

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 *
coba1

MANAGE TAGS AND LABELS

Region *
asia-southeast2 (Jakarta)
Region is permanent

Zone *
asia-southeast2-a
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 ?	Platform
<input type="radio"/>	C3	Consistently high performance	4 - 176	8 - 1,408 GB	Intel Sapphire Rapids
<input checked="" type="radio"/>	E2	Low cost, day-to-day computing	0.25 - 32	1 - 128 GB	Based on availability
<input type="radio"/>	N2	Balanced price & performance	2 - 128	2 - 864 GB	Intel Cascade and Ice Lake
<input type="radio"/>	N2D	Balanced price & performance	2 - 224	2 - 896 GB	AMD EPYC
<input type="radio"/>	T2A	Scale-out workloads	1 - 48	4 - 192 GB	Ampere Altra Arm
<input type="radio"/>	T2D	Scale-out workloads	1 - 60	4 - 240 GB	AMD EPYC Milan
<input type="radio"/>	N1	Balanced price & performance	0.25 - 96	0.6 - 624 GB	Intel Skylake

Monthly estimate

\$8.74

That's about \$0.01 hourly

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

Item	Monthly estimate
2 vCPU + 1 GB memory	\$8.22
10 GB standard persistent disk	\$0.52
Total	\$8.74

Compute Engine pricing

LESS

CREATE CANCEL EQUIVALENT CODE

Create an instance

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- New VM instance

Create a single VM instance from scratch
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- 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-micro (2 vCPU, 1 core, 1 GB memory)



vCPU

0.25-2 vCPU (1 shared core)

Memory

1 GB

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

Enable to use screen capturing and recording tools.

☐ Enable display device

Confidential VM service

Confidential Computing is disabled on this VM instance

Monthly estimate

\$8.74

That's about \$0.01 hourly

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

Item	Monthly estimate
2 vCPU + 1 GB memory	\$8.22
10 GB standard persistent disk	\$0.52
Total	\$8.74

[Compute Engine pricing](#)

LESS

Create an instance EQUIVALENT CODE HELP ASSISTANT

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

Service accounts ?

Service account
Compute Engine default service account

Requires the Service Account User role (roles/iam.serviceAccountUser) to be set for users who want to access VMs with this service account. [Learn more](#)

Access scopes ?

- ☒ Allow default access
- ☐ Allow full access to all Cloud APIs
- ☐ Set access for each API

Firewall ?

Add tags and firewall rules to allow specific network traffic from the Internet

- ☒ Allow HTTP traffic
- ☒ Allow HTTPS traffic

Observability - Ops Agent ?

Monitor your system through collection of logs and key metrics.

- ☐ Install Ops Agent for Monitoring and Logging

Advanced options

Networking, disks, security, management, sole-tenancy

Monthly estimate

\$8.74

That's about \$0.01 hourly

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

Item	Monthly estimate
2 vCPU + 1 GB memory	\$8.22
10 GB standard persistent disk	\$0.52
Total	\$8.74

[Compute Engine pricing](#)

[^ LESS](#)


```
ssh.cloud.google.com/v2/ssh/projects/pribadi-357706/zones/asia-southeast2-a/instances/coba1?authuser=2&hl=en_US&projectNumber...
ssh.cloud.google.com/v2/ssh/projects/pribadi-357706/zones/asia-southeast2-a/instances/coba1?authuser=2&hl=en_US&projectNu...
SSH-in-browser
[Icons: UPLOAD FILE, DOWNLOAD FILE, !, , , ]

Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1030-gcp x86_64)

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

System information as of Thu Aug 24 07:30:24 UTC 2023

System load:  0.08447265625   Processes:            106
Usage of /:   19.5% of 9.51GB   Users logged in:      0
Memory usage: 26%             IPv4 address for ens4: 10.184.0.10
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

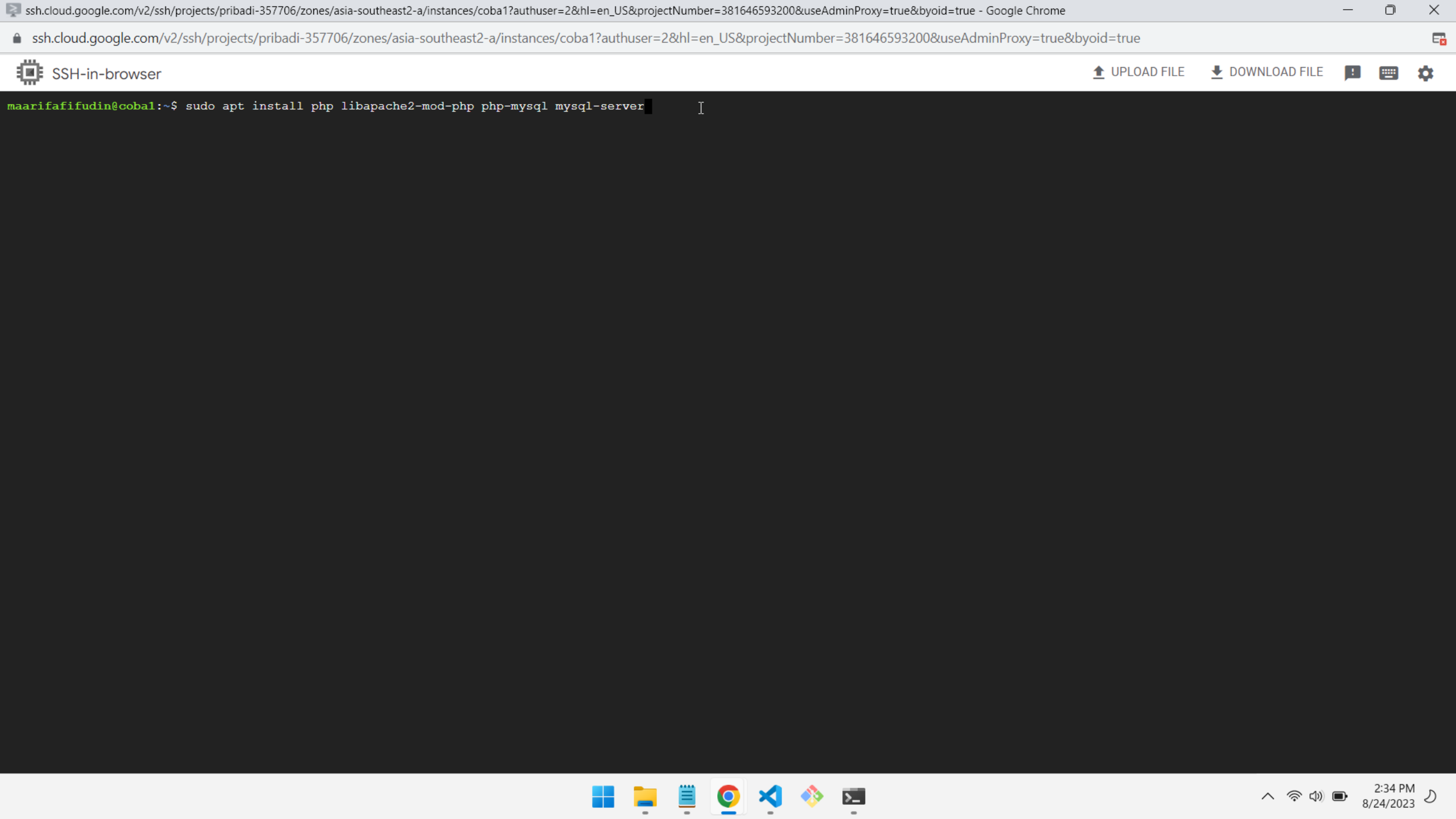
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

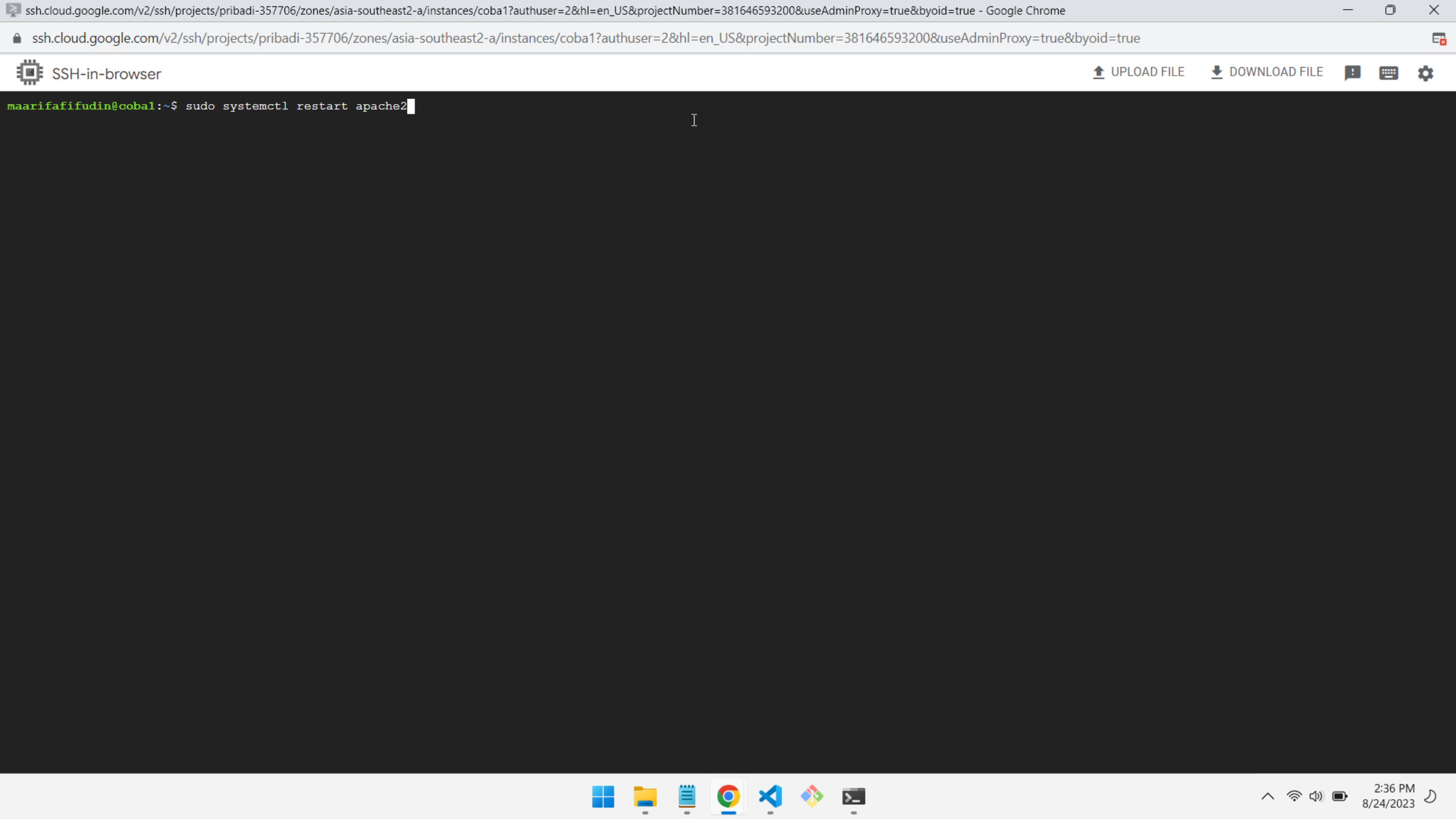
The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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

maarifafifudin@cobal:~$ sudo apt-get update
```







Ubuntu

Apache2 Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in [/usr/share/doc/apache2/README.Debian.gz](#)**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

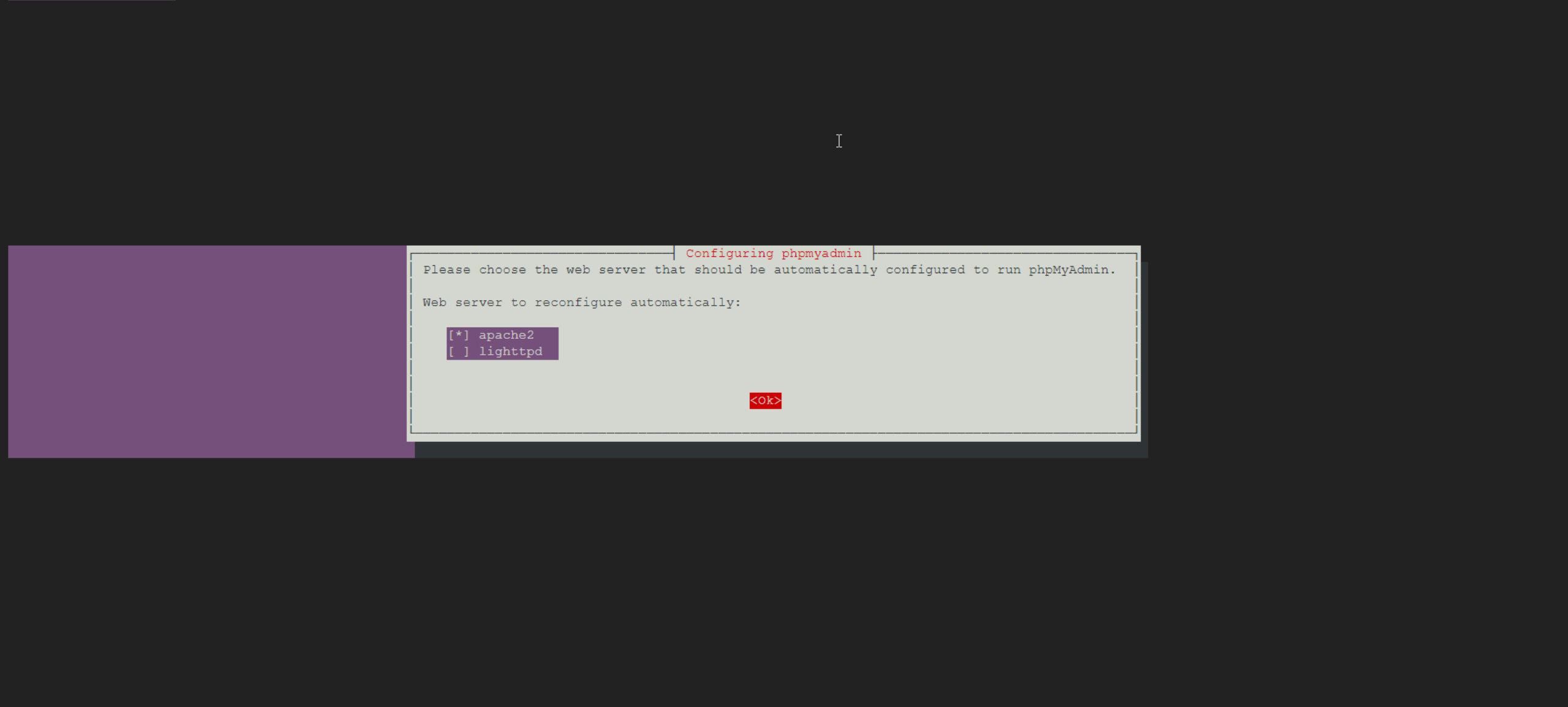
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
|   |-- ports.conf  
|-- mods-enabled  
|   |-- *.load  
|   |-- *.conf  
|-- conf-enabled  
|   |-- *.conf  
|-- sites-enabled  
|   |-- *.conf
```

• `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining

```
maarifafifudin@coba1:~$ sudo systemctl restart apache2
maarifafifudin@coba1:~$ sudo apt install phpmyadmin
```

I



Configuring phpmyadmin

The phpmyadmin package must have a database installed and configured before it can be used. This can be optionally handled with dbconfig-common.

If you are an advanced database administrator and know that you want to perform this configuration manually, or if your database has already been installed and configured, you should refuse this option. Details on what needs to be done should most likely be provided in /usr/share/doc/phpmyadmin.

Otherwise, you should probably choose this option.

Configure database for phpmyadmin with dbconfig-common?

<Yes>

<No>



Welcome to phpMyAdmin

❗ Cannot log in to the MySQL server

Language

English ▼

Log in ⓘ

Username:

Password:

Go

❗ mysqli::real_connect(): (HY000/1698): Access denied for user 'root'@'localhost'

maarifafifudin@coba1:~\$ sudo mysql -u root

I

```
maarifafifudin@coba1:~$ sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH 'mysql_native_password' BY 'your-password'
```



```
maarifafifudin@coba1:~$ sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH 'mysql_native_password' BY '[REDACTED]';
-> ;
Query OK, 0 rows affected (0.20 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.06 sec)

mysql> exit;
```

```
maarifafifudin@coba1:~$ sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

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-> ;
Query OK, 0 rows affected (0.20 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.06 sec)

mysql> exit;
Bye
maarifafifudin@coba1:~$
```

phpMyAdmin

Recent Favorites

New

- information_schema
- mysql
- performance_schema
- phpmyadmin
- sys

DatabasesSQLStatusUser accountsExportImportSettingsBinary log

General settings

Change password

Server connection collation: utf8mb4_unicode_ci

More settings

Appearance settings

Language English

Theme: pmahomme

Databases

- Server
- Server
- Server
- Server
- Protocol
- User:
- Server


Web s

- Apache/2.4.52 (Ubuntu)
- Database client version: libmysql - mysqlnd 8.1.2-1ubuntu2.14
- PHP extension: mysqli curl mbstring
- PHP version: 8.1.2-1ubuntu2.14

phpMyAdmin

- Version information: 5.1.1deb5ubuntu1
- Documentation
- Official Homepage
- Contribute
- Get support
- List of changes
- License

Console



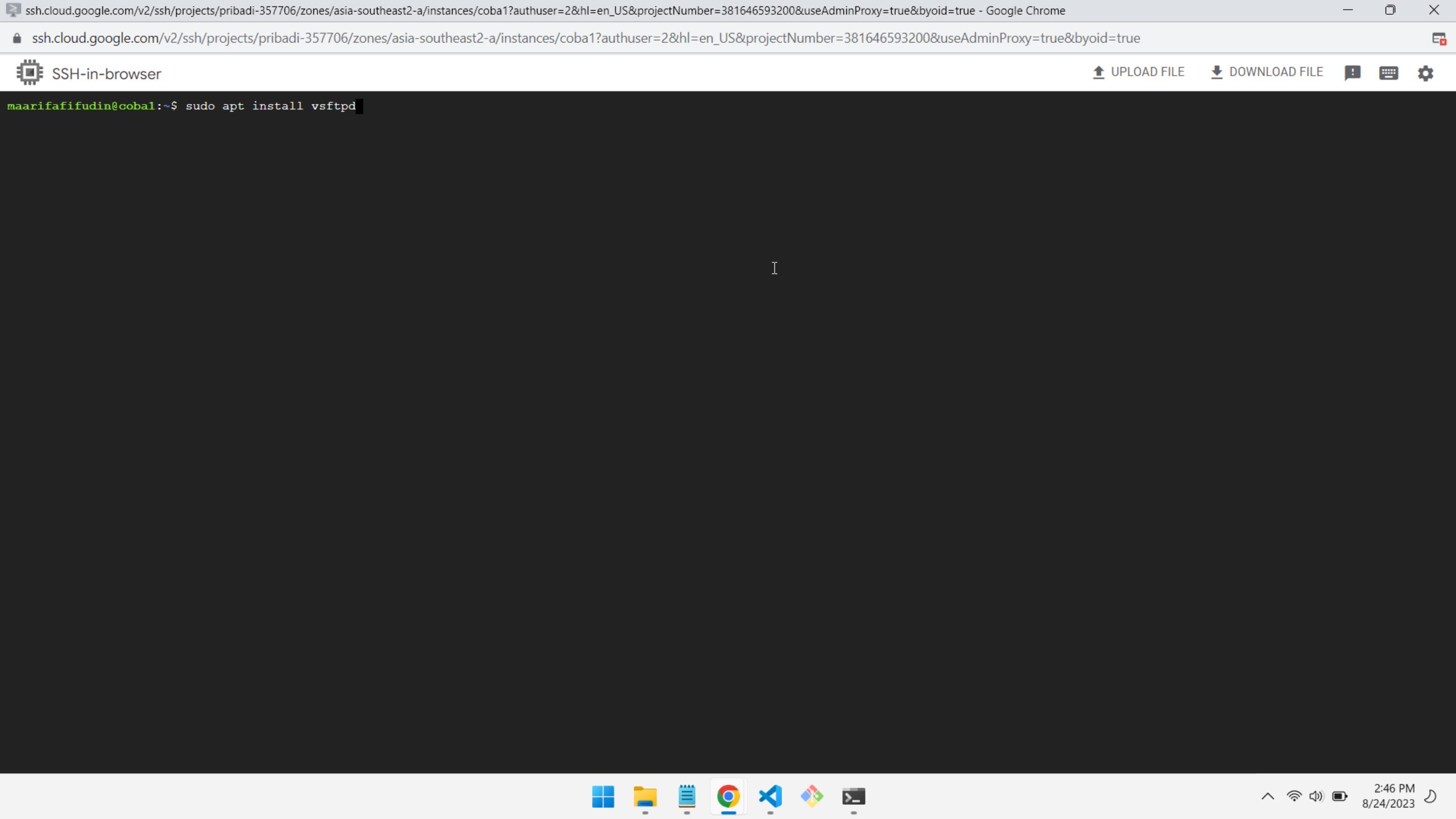
Save password?

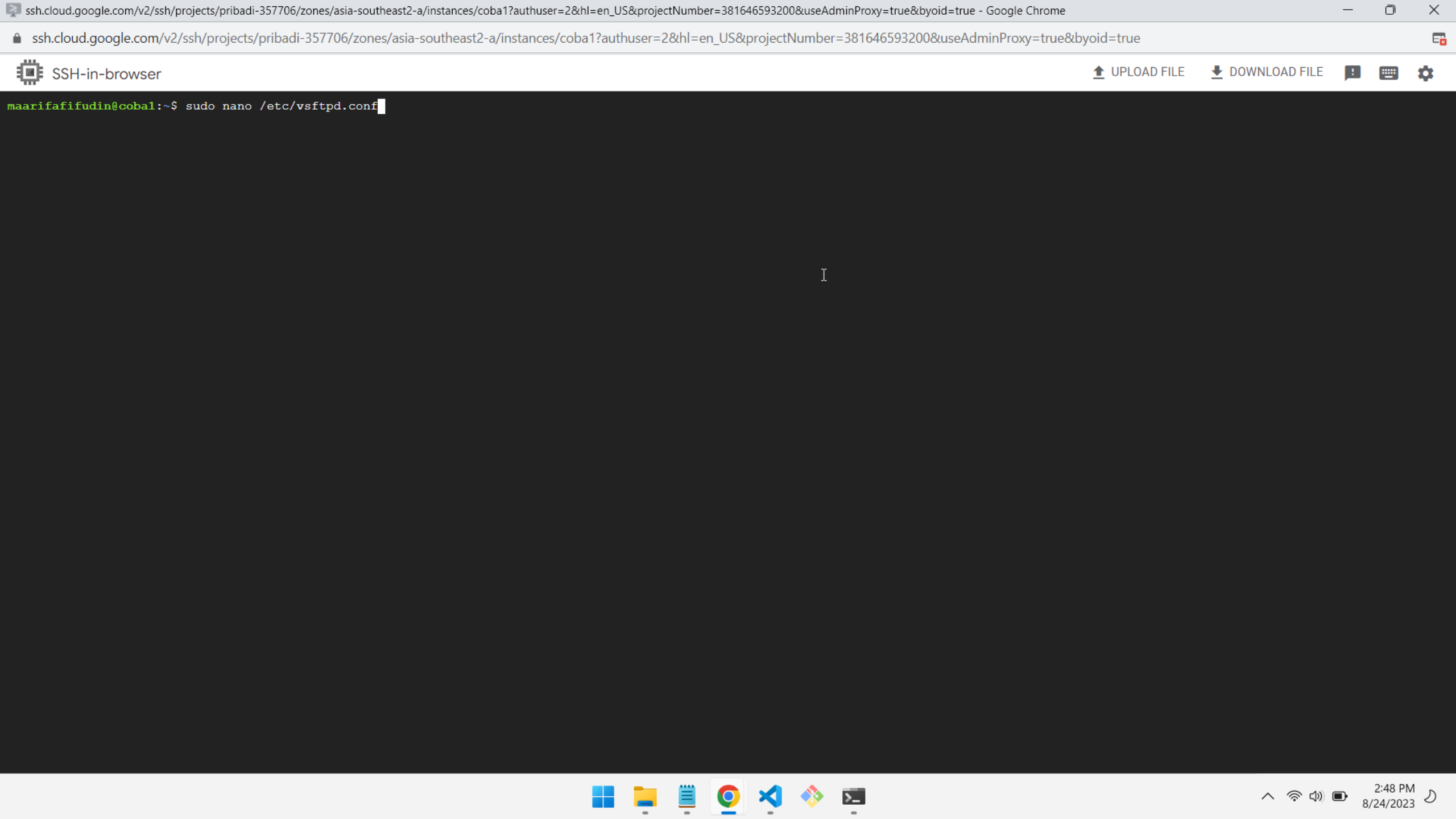
Username root

Password

Save Never

You can use saved passwords on any device. They're saved to [Google Password Manager](#) for afifudinmaarif@gmail.com.





GNU nano 6.2 /etc/vsftpd.conf

```
# Example config file /etc/vsftpd.conf
#
# The default compiled in settings are fairly paranoid. This sample file
# loosens things up a bit, to make the ftp daemon more usable.
# Please see vsftpd.conf.5 for all compiled in defaults.
#
# READ THIS: This example file is NOT an exhaustive list of vsftpd options.
# Please read the vsftpd.conf.5 manual page to get a full idea of vsftpd's
# capabilities.
#
# Run standalone? vsftpd can run either from an inetd or as a standalone
# daemon started from an initscript.
listen=NO
#
# This directive enables listening on IPv6 sockets. By default, listening
# on the IPv6 "any" address (:::) will accept connections from both IPv6
# and IPv4 clients. It is not necessary to listen on *both* IPv4 and IPv6
# sockets. If you want that (perhaps because you want to listen on specific
# addresses) then you must run two copies of vsftpd with two configuration
# files.
listen_ipv6=YES
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=NO
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
# Default umask for local users is 077. You may wish to change this to 022,
# if your users expect that (022 is used by most other ftpd's)
local_umask=022
#
# Uncomment this to allow the anonymous FTP user to upload files. This only
# has an effect if the above global write enable is activated. Also, you will
# obviously need to create a directory writable by the FTP user.
anon_upload_enable=YES
```

^G Help
^X Exit

^O Write Out
^R Read File

^W Where Is
^_ Replace

^K Cut
^U Paste

^T Execute
^J Justify

^C Location
^_ Go To Line

M-U Undo
M-E Redo

M-A Set Mark
M-6 Copy

M-] To Bracket
^Q Where Was

M-Q Previous
M-W Next

^B Back
^F Forward



```
GNU nano 6.2 /etc/vsftpd.conf *
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^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark  M-] To Bracket  M-Q Previous  ^B Back
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/_ Go To Line  M-E Redo      M-6 Copy      ^Q Where Was   M-W Next      ^F Forward
```

GNU nano 6.2 /etc/vsftpd.conf *

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# obviously need to create a directory writable by the FTP user.
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```

File Name to Write: /etc/vsftpd.conf

^G Help

^C Cancel

M-D DOS Format

M-M Mac Format

M-A Append

M-P Prepend

M-B Backup File

^T Browse



```
maarifafifudin@coba1:~$ sudo nano /etc/vsftpd.conf
maarifafifudin@coba1:~$ sudo systemctl restart vsftpd
maarifafifudin@coba1:~$
```

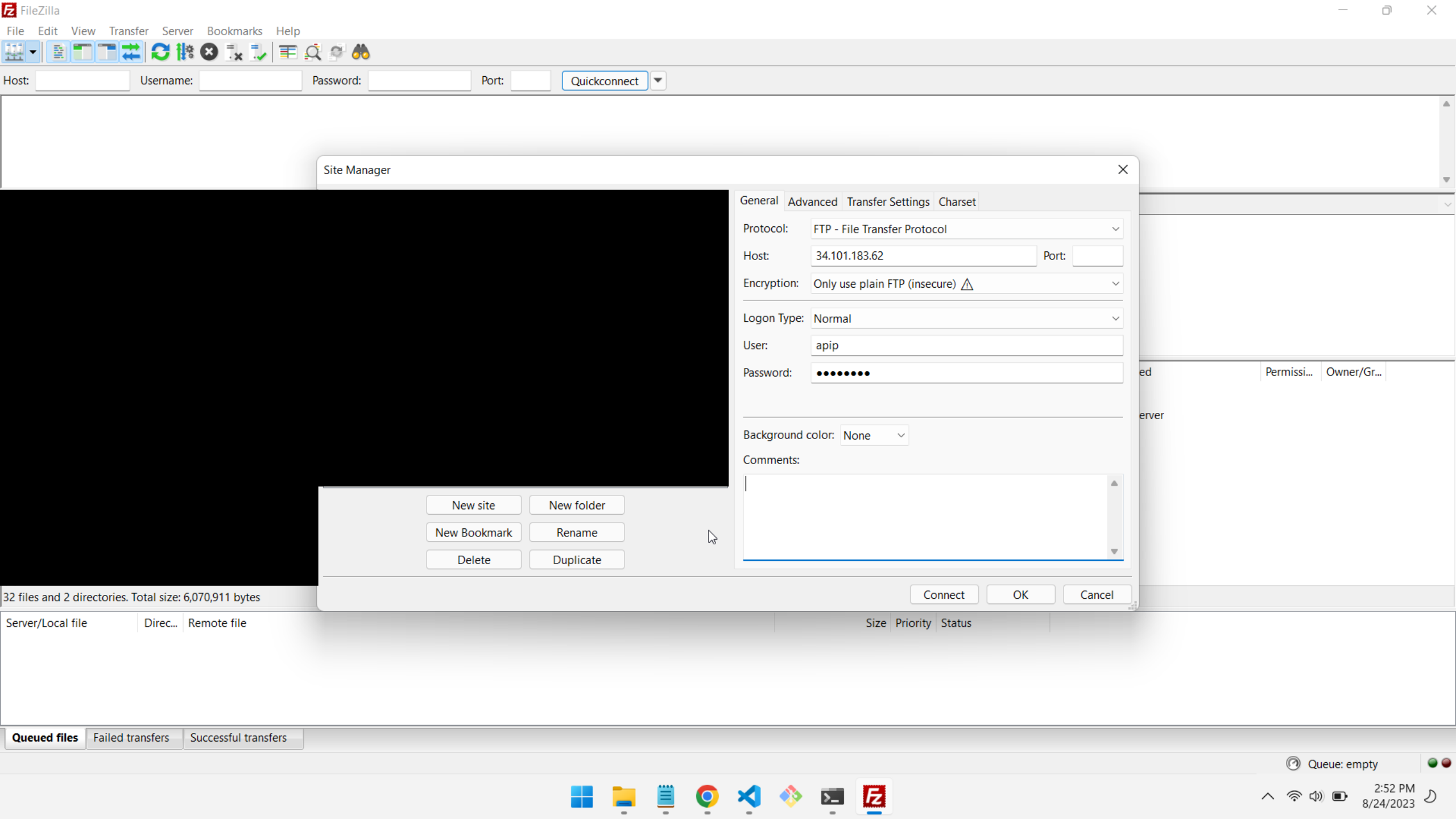
I

```
maarifafifudin@coba1:~$ sudo nano /etc/vsftpd.conf
maarifafifudin@coba1:~$ sudo systemctl restart vsftpd
maarifafifudin@coba1:~$ sudo ufw allow 20/tcp
sudo ufw allow 21/tcp
Rules updated
Rules updated (v6)
Rules updated
Rules updated (v6)
maarifafifudin@coba1:~$
```

I


```
maarifafifudin@coba1:~$ sudo adduser apip
Adding user `apip' ...
Adding new group `apip' (1003) ...
Adding new user `apip' (1002) with group `apip' ...
Creating home directory `/home/apip' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for apip
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n]
maarifafifudin@coba1:~$
```

I



Host: Username: Password: Port: Quickconnect ▼

Site Manager



General Advanced Transfer Settings Charset

Protocol: FTP - File Transfer Protocol ▼

Host: 34.101.183.62 Port:

Encryption: Only use plain FTP (insecure) ⚠ ▼

Logon Type: Normal ▼

User: apip

Password: ●●●●●●

Background color: None ▼

Comments:

New site

New folder

New Bookmark

Rename

Delete

Duplicate

Connect

OK

Cancel

32 files and 2 directories. Total size: 6,070,911 bytes

Server/Local file Direc... Remote file

Size Priority Status

Queued files

Failed transfers

Successful transfers

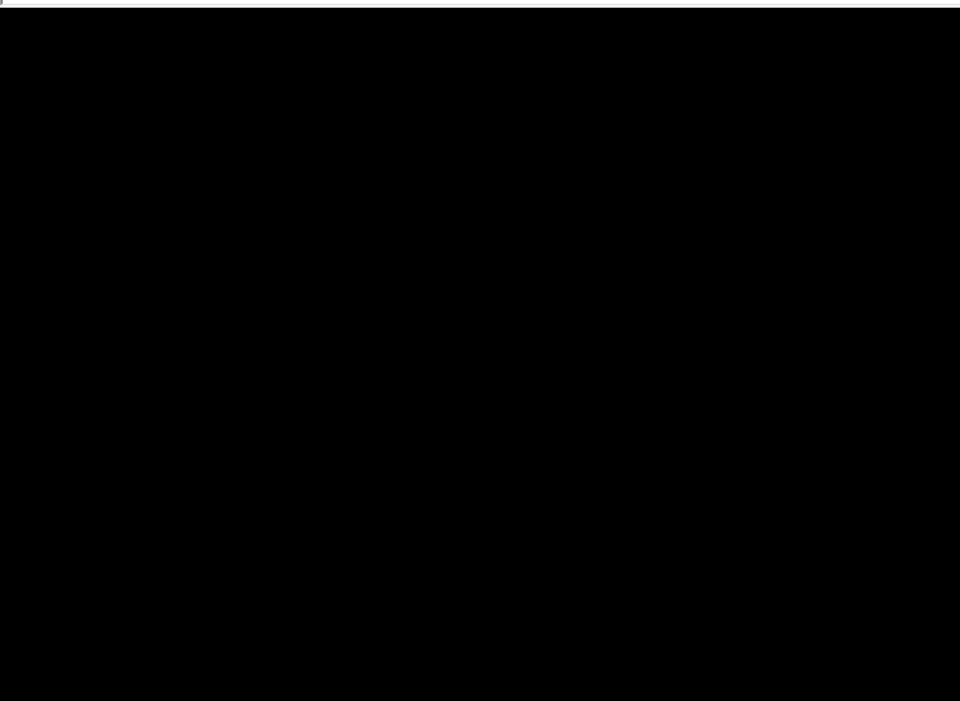
Queue: empty





Host: Username: Password: Port: Quickconnect ▼

Status: Connecting to 34.101.183.62:21...
 Status: Connection established, waiting for welcome message...
 Status: Plain FTP is insecure. Please switch to FTP over TLS.



Remote site:

Insecure FTP connection

Using plain FTP is insecure.

If you continue, your password and files will be sent in clear over the internet.

Host: 34.101.183.62

Port: 21

☒ Always allow insecure plain FTP for this server.

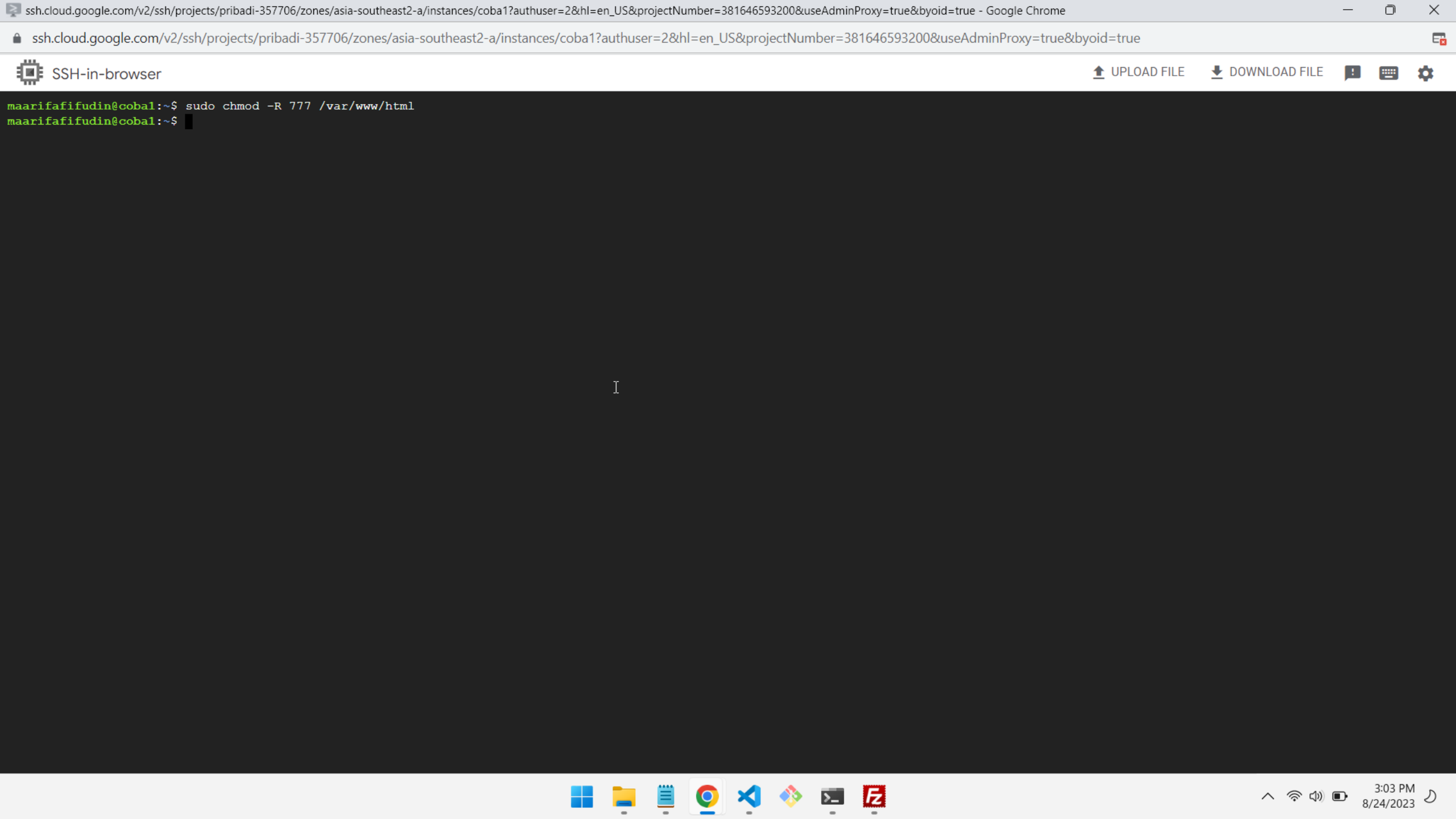
OK Cancel

Filesize	Filetype	Last modified	Permissi...	Owner/Gr...
Not connected to any server				

32 files and 2 directories. Total size: 6,070,911 bytes

Server/Local file	Direc...	Remote file	Size	Priority	Status
Not connected.					

Queued files Failed transfers Successful transfers





cakep