

# **Computer Hardware & Networking& Server Configurations (H7E3 04)**

## **UNIT 09 VPS Configuration**

Open the web browser. Then type “google cloud console” in Google and search.



After searching, click on the URL given in the image below on the web page that comes.

A screenshot of a Google search results page. The search term "google cloud console" is entered in the search bar at the top. Below the search bar are several navigation buttons: Sign in, Images, Free, Commands, App, Videos, Pricing, APK, and API key. The main search results area shows a snippet for Google Cloud Platform. The snippet includes the Google logo, the title "Google Cloud Platform", a brief description, and two links: "Sign in" and "API Library". The URL "https://console.cloud.google.com" is highlighted with a red box. The snippet also includes a "More" button represented by three dots.

**Google**

**Sign in**

to continue to Google Cloud Platform

Email or phone

[Forgot email?](#)

Not your computer? Use Guest mode to sign in privately.  
[Learn more about using Guest mode](#)

[Create account](#) **Next**

English (United States) ▾ Help Privacy Terms

**Google**

**Sign in**

to continue to Google Cloud Platform

Email or phone  
thilina.dexaa@gmail.com

[Forgot email?](#)

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[Create account](#) **Next**

English (United States) ▾ Help Privacy Terms

**Google**

**Welcome**

 thilina.dexaa@gmail.com ▾

Enter your password  
.....

Show password

[Forgot password?](#) **Next**

English (United States) ▾ Help Privacy Terms



Welcome, Thilina Rajakaruna!

Create and manage your Google Cloud instances, disks, networks and other resources in one place.



Thilina Rajakaruna

[SWITCH ACCOUNT](#)

Country

Sri Lanka

Terms of Service

I agree to the [Google Cloud Platform Terms of Service](#), and the terms of service of [any applicable services and APIs](#).

Email updates

I would like to receive periodic emails on news, product updates and special offers from Google Cloud and Google Cloud Partners.

[AGREE AND CONTINUE](#)



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Welcome, Thilina Rajakaruna

## Try Google Cloud with \$300 in free credits

- ✓ Access to Google Cloud products and services
- ✓ 90 days to spend your credits
- ✓ No billing during trial

[TRY FOR FREE](#)

Other options

Train and deploy ML models and AI applications with Vertex AI Free Tier.

[TRY VERTEX AI](#)

Configure Google Cloud for scalable, production-ready enterprise workloads.

[GOOGLE CLOUD SETUP](#)

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[GOOGLE CLOUD SETUP](#)

 Try Google Cloud for free

## Step 1 of 2 Account information



Thilina Rajakaruna  
thilina.dexaa@gmail.com

[SWITCH ACCOUNT](#)

Country

Sri Lanka ▾

By using this application, you agree to the [Google Cloud Platform](#),  
[Supplemental Free Trial](#) and [any applicable services and APIs Terms](#) of Service.

[AGREE & CONTINUE](#)

### Access to all Google Cloud products

Get everything that you need to build and run your apps, websites and services, including Firebase and the Google Maps API.

### \$300 credit for free

Put Google Cloud to work with \$300 in credit to spend over the next 90 days.

### No auto-charge after free trial ends

We ask you for your credit card to make sure that you are not a robot. If you use a credit or debit card, you won't be charged unless you manually activate your full account.

 Try Google Cloud for free

## Step 2 of 2 Payment information verification

Your payment information helps us to reduce fraud and abuse. If using a credit or debit card, you won't be charged until you manually activate your account.

### Payments profile

Choose the payments profile that will be associated with this account or transaction. A payments profile is shared and used across all Google products.

 Thilina Rajakaruna  
Individual profile for Play  
Payments profile ID:

▼

### Payment method

 Mastercard  
▼

**START FREE**

### Access to all Google Cloud products

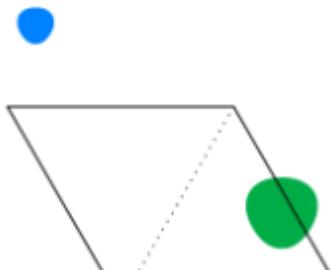
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## Welcome, Thilina Rajakaruna!

Your free trial includes \$300 in credit to spend over the next 90 days. To help us serve you better, please answer 4 questions.

- 1 What best describes your organisation or needs?

Please select \*

NEXT

- 2 What brought you to Google Cloud?

- 3 What are you interested in doing with Google Cloud?

- 4 What best describes your role?

CLOSE

DONE



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Start-up

NEXT

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Learn more/explore

NEXT

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- 3 What are you interested in doing with Google Cloud?

- Websites
- Mobile apps
- Move workloads
- Data analytics
- Data management
- Artificial intelligence/machine learning
- Storage/backup
- Game development
- Virtual machines (VMs)
- Hybrid/multi-cloud
- Containerisation
- SAP on Google Cloud
- Secure apps and/or services
- Google Maps
- Other APIs (e.g. Text-to-Speech, Speech-to-Text, Vision)
- Other
- I'm not sure yet

[NEXT](#)

- 4 What best describes your role?

[CLOSE](#)[DONE](#)

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[CLOSE](#)[DONE](#)



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Please select \*

CLOSE

DONE



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- |
- 2 What brought you to Google Cloud?
- |
- 3 What are you interested in doing with Google Cloud?
- |
- 4** What best describes your role?

Please select \*

Engineer/Developer

CLOSE

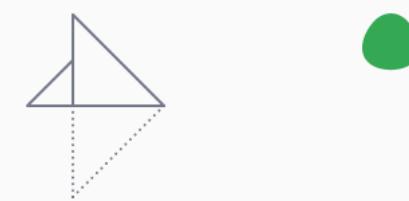
DONE



Welcome, Thilina Rajakaruna

You're working on project [My First Project](#) ?

Number: 991909259344 ID: abiding-melody-413121

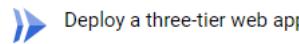
[Add people to your project](#)[Set up budget alerts](#)[Review product spend](#)

Experience Gemini, the multimodal model from Google DeepMind, now available in Vertex AI

?

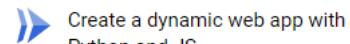
## Recommended based on your interest in [Web, mobile, game, storage](#) ▾

### Pre-built solution templates ?



Deploy a three-tier web app

Web app, rich media site, e-commerce website, database-backed website



Create a dynamic web app with Python and JS

Dynamic web app, e-commerce website, database backend, django rest framework,...



Create a serverless e-commerce platform

E-commerce web app, database backend, django

 [View all solutions](#)

### Products



Create a VM

Compute Engine



Create a database

Cloud SQL



Run containerised apps

Cloud Run



Create a storage bucket

Cloud Storage



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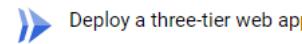
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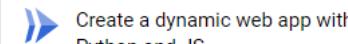


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Create a dynamic web app with Python and JS

Dynamic web app, e-commerce website, database backend, django rest framework,...

Create a serverless e-commerce platform

E-commerce web app, database backend, django

 [View all solutions](#)

### Products



Create a VM

Compute Engine

Create a database

Cloud SQL

Run containerised apps

Cloud Run

Create a storage bucket

Cloud Storage

## Select a project

 NEW PROJECT

 Search projects and folders

RECENT

STARRED

ALL

Name	ID
   <a href="#">My First Project</a> 	abiding-melody-413121

## New Project



You have 11 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name \*

Test VPS 

Project ID: test-vps-413122. It cannot be changed later. [EDIT](#)

Location \*

 No organisation [BROWSE](#)

Parent organisation or folder

[CREATE](#)

[CANCEL](#)

## New Project

⚠ You have 11 projects remaining in your quota. Request an increase or delete projects. [Learn more ↗](#)

[MANAGE QUOTAS ↗](#)

Project name \*

Test VPS



Project ID: test-vps-413122. It cannot be changed later. [EDIT](#)

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No organisation

[BROWSE](#)

Parent organisation or folder

[CREATE](#)

[CANCEL](#)

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No organisation

[BROWSE](#)

Parent organisation or folder

[CREATE](#)

[CANCEL](#)

Search



## Notifications

✓ Create Project: Test VPS Just now

[SELECT PROJECT](#)

✓ Create Project: My First Project 32 minutes ago

[SELECT PROJECT](#)

[SEE ALL ACTIVITIES](#)

Experience Generative  
multimodal modeling  
from Google  
DeepMind, now  
available in Vertex AI



Google Cloud



My First Project ▾

## Select a project



NEW PROJECT

Search projects and folders

RECENT STARRED ALL

Name	ID
<a href="#">Test VPS</a>	test-vps-413122
<a href="#">My First Project</a>	abiding-melody-413121

CANCEL



Google Cloud

Test VPS

The image displays three side-by-side screenshots of the Google Cloud Platform (GCP) interface, illustrating the navigation bar and pinned products.

**Left Screenshot:** Shows the main GCP dashboard with the navigation bar at the top. The "Google Cloud" logo is on the left, and the "Test" account name is on the right. A red box highlights the "Google Cloud" logo area. Below the logo, there's a section titled "PINNED PRODUCTS" containing links to various services, with "Compute Engine" highlighted by a red box.

**Middle Screenshot:** Shows a detailed view of the "Compute Engine" service page. The navigation bar at the top shows "Google Cloud" and "Test". The "Compute Engine" link from the previous screenshot is now highlighted with a red box. The page lists several sub-components under "Compute Engine", such as "Cloud overview", "Products and solutions", and "VM instances".

**Right Screenshot:** Shows a detailed view of the "VM instances" page under the "Compute Engine" service. The navigation bar at the top shows "Google Cloud" and "Test VPS". The "VM instances" link is highlighted with a red box. The page lists various options for managing virtual machines, including "Instance templates", "Sole-tenant nodes", "Machine images", and "TPUs".



☰ Google Cloud Test VPS ▾

Product details

## Compute Engine API

Google Enterprise API

Compute Engine API

**ENABLE** TRY THIS API ↗

☰ Google Cloud Test VPS ▾

Product details

## Compute Engine API

Google Enterprise API

Compute Engine API

**ENABLE** TRY THIS API ↗

## Compute Engine API

Google Enterprise API

Compute Engine API

**TRY THIS API ↗**

A horizontal navigation bar with several icons: a magnifying glass for search, a clipboard for copy, a square for paste, a question mark for help, and a user profile icon.

The 'TRY THIS API' button and the top navigation bar are highlighted with red boxes.

Google Cloud Test Search (/) for resources, docs, products, and more Search

Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH

Virtual machines VM instances Instance templates Sole-tenant nodes Machine images TPUs Committed use discounts Reservations Migrate to Virtual Machin...

Storage Disks Snapshots Images Async Replication

Instance groups 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



## Create an instance

EQUIVALENT CODE



**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 \*  ?

## ▼ MANAGE TAGS AND LABELS

Region \*  ?

Zone \*  ?

Region is permanent

Zone is permanent

## Machine configuration

NEW: General-purpose machine series in Preview

SIGN UP

Try the new N4 series, ideal for workloads that prioritize flexibility and cost-optimization

General purpose   Compute optimized   Memory optimized   Storage optimized NEW   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
<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
<input type="radio"/>	T2A	Scale-out workloads	1 - 48	4 - 192 GB
<input type="radio"/>	T2D	Scale-out workloads	1 - 60	4 - 240 GB
<input type="radio"/>	N1	Balanced price & performance	0.25 - 96	0.6 - 624 GB

Machine type

CREATE

CANCEL

EQUIVALENT CODE

Monthly estimate

\$28.65

That's about \$0.04 hourly

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

Item	Monthly estimate
2 vCPU + 4 GB memory	\$27.55
10 GB balanced persistent disk	\$1.10
Total	\$28.65

[Compute Engine pricing](#)

▲ LESS

## ← Create an instance

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Name \*  

 MANAGE TAGS AND LABELS

Region \*   

Region is permanent

Zone \*   

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Monthly estimate

\$31.27

That's about \$0.04 hourly

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

Item	Monthly estimate
2 vCPU + 4 GB memory	\$30.17
10 GB balanced persistent disk	\$1.10
Total	\$31.27

[Compute Engine pricing](#)

 LESS

## Machine configuration

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 General purpose

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Storage optimized

 NEW

GPUs

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Machine type

[CREATE](#)

[CANCEL](#)

[EQUIVALENT CODE](#)

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[CREATE](#)

[CANCEL](#)

[EQUIVALENT CODE](#) 

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Marketplace  
Deploy a ready-to-go solution onto a VM instance

Name \* instance-20240228-160719

MANAGE TAGS AND LABELS

Region \* asia-southeast1 (Singapore)

Zone \* asia-southeast1-b

Region is permanent

Zone is permanent

Monthly estimate

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[Compute Engine pricing](#)

[LESS](#)

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



## vCPU

1-2 vCPU (1 shared core)

## Memory

4 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 deviceConfidential VM service ?

Confidential Computing is disabled on this VM instance

ENABLE

Container ?

CREATE

CANCEL

EQUIVALENT CODE

## Monthly estimate

\$31.27

That's about \$0.04 hourly

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

Item	Monthly estimate
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[Compute Engine pricing](#)

LESS

## Create an instance

EQUIVALENT CODE



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PRESET

CUSTOM

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



vCPU

1-2 vCPU (1 shared core)

Memory

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## ADVANCED CONFIGURATIONS

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[Compute Engine pricing](#)

LESS

## VM PROVISIONING MODEL ADVANCED SETTINGS

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● Confidential Computing is disabled on this VM instance

[ENABLE](#)Container ?[CREATE](#)[CANCEL](#)

EQUIVALENT CODE

## ← Create an instance

EQUIVALENT CODE

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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

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

vCPU  
1-2 vCPU (1 shared core)Memory  
4 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 deviceConfidential VM service ?

(-) Confidential Computing is disabled on this VM instance

[ENABLE](#)Container ?

Deploy a container image to this VM instance

[DEPLOY CONTAINER](#)[CREATE](#)[CANCEL](#)

EQUIVALENT CODE

## Monthly estimate

\$31.27

That's about \$0.04 hourly

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

Item	Monthly estimate
2 vCPU + 4 GB memory	\$30.17
10 GB balanced persistent disk	\$1.10
Total	\$31.27

[Compute Engine pricing](#)

▲ LESS

## Create an instance

EQUIVALENT CODE

- + 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

## Boot disk

Name	first-vps
Type	New balanced persistent disk
Size	10 GB
License type	Free
Image	
<a href="#">CHANGE</a>	

## Monthly estimate

\$31.27

That's about \$0.04 hourly

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

Item	Monthly estimate
2 vCPU + 4 GB memory	\$30.17
10 GB balanced persistent disk	\$1.10
Total	\$31.27

[Compute Engine pricing](#)

LESS

## Identity and API access

## 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
- Allow Load Balancer Health Checks

## Observability - Ops Agent

[CREATE](#)

CANCEL

EQUIVALENT CODE



Free trial status: \$299.96 credit and 63 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.



Google Cloud

Test ▾

Search (/) for resources, docs, products

← Create an instance

+ 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

Boot disk ?

Name first-vps  
Type New balanced persistent disk  
Size 10 GB  
License type ? Free  
Image Debian GNU/Linux 12 (bookworm)

CHANGE

Identity and API access ?

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 account. [Learn more](#) ▾

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Observability - Ops Agent ?

CREATE

CANCEL

↔ EQUIVALENT CODE

Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#) ▾

PUBLIC IMAGES

CUSTOM IMAGES

SNAPSHOTS

ARCHIVE SNAPSHOTS

EXISTING DISKS

Operating system —  
Debian

Version \*  
Debian GNU/Linux 12 (bookworm)  
x86\_64, amd64 built on 20240213

Boot disk type \*  
Balanced persistent disk

COMPARE DISK TYPES

Size (GB) \*  
10

Provision between 10 and 65536 GB

✓ SHOW ADVANCED CONFIGURATION

SELECT

CANCEL

## Google Cloud

Test ▾

Search (/) for resources, docs, products,

[Create an instance](#)

### 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

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License type Free  
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[CHANGE](#)

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## Observability - Ops Agent ?

[CREATE](#)[CANCEL](#)[EQUIVALENT CODE](#)

## Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#)

[PUBLIC IMAGES](#)[CUSTOM IMAGES](#)[SNAPSHOTS](#)[ARCHIVE SNAPSHOTS](#)[EXISTING DISKS](#)**Operating system**

Ubuntu

**Version \***

Ubuntu 20.04 LTS

x86/64, amd64 focal image built on 2024-02-27

**Boot disk type \***

Balanced persistent disk

[COMPARE DISK TYPES](#)**Size (GB) \***

50

Provision between 10 and 65536 GB

[▼ SHOW ADVANCED CONFIGURATION](#)[SELECT](#)[CANCEL](#)

## Google Cloud

Test ▾

Search (/) for resources, docs, products,

← Create an instance

## 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

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License type Free  
Image Debian GNU/Linux 12 (bookworm)

CHANGE

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## Observability - Ops Agent ?

CREATE

CANCEL

EQUIVALENT CODE

## Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#)

## PUBLIC IMAGES

## CUSTOM IMAGES

## SNAPSHOTS

## ARCHIVE SNAPSHOTS

## EXISTING DISKS

Operating system Ubuntu

Version \* Ubuntu 20.04 LTS  
x86\_64\_amd64\_focal\_image\_built\_on\_2024-02-27

Boot disk type \* Balanced persistent disk

## COMPARE DISK TYPES

Size (GB) \* 50  
Provision between 10 and 65536 GB

## ▼ SHOW ADVANCED CONFIGURATION

SELECT

CANCEL

## Google Cloud

Test ▾

Search (/) for resources, docs, products,

← Create an instance

## 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

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Size 10 GB  
License type ? Free  
Image Debian GNU/Linux 12 (bookworm)

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## Observability - Ops Agent ?

CREATE

CANCEL

EQUIVALENT CODE

## Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#)

## PUBLIC IMAGES

## CUSTOM IMAGES

## SNAPSHOTS

## ARCHIVE SNAPSHOTS

## EXISTING DISKS

Operating system Ubuntu

Version \* Ubuntu 20.04 LTS

x86/64, amd64 focal image built on 2024-02-27

Boot disk type \* Balanced persistent disk

COMPARE DISK TYPES

Size (GB) \*

50

Provision between 10 and 65536 GB

▼ SHOW ADVANCED CONFIGURATION

SELECT

CANCEL

## Google Cloud

Test ▾

Search (/) for resources, docs, products,

[Create an instance](#)

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Create a single VM instance from scratch

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[CHANGE](#)

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[CREATE](#)[CANCEL](#)[EQUIVALENT CODE](#)

## Boot disk

Select an image or snapshot to create a boot disk; or attach an existing disk. Can't find what you're looking for? Explore hundreds of VM solutions in [Marketplace](#)

### PUBLIC IMAGES

### CUSTOM IMAGES

### SNAPSHOTS

### ARCHIVE SNAPSHOTS

### EXISTING DISKS

Operating system Ubuntu

Version \* Ubuntu 20.04 LTS  
x86/64, amd64 focal image built on 2024-02-27

Boot disk type \* Balanced persistent disk

### COMPARE DISK TYPES

Size (GB) \* 50  
Provision between 10 and 65536 GB

### SHOW ADVANCED CONFIGURATION

[SELECT](#)[CANCEL](#)

## Google Cloud

Test ▾

Search (/) for resources, docs, products,

← Create an instance

## + New VM instance

Create a single VM instance from scratch

## + New VM instance from template

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CREATE

CANCEL

EQUIVALENT CODE

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## PUBLIC IMAGES

## CUSTOM IMAGES

## SNAPSHOTS

## ARCHIVE SNAPSHOTS

## EXISTING DISKS

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x86/64, amd64 focal image built on 2024-02-27

Boot disk type \* Balanced persistent disk

## COMPARE DISK TYPES

## Size (GB) \*

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Provision between 10 and 65536 GB

## ▼ SHOW ADVANCED CONFIGURATION

SELECT

CANCEL



## Create an instance

EQUIVALENT CODE

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- + 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

Boot disk 

Name	first-vps
Type	New balanced persistent disk
Size	50 GB
License type 	Free
Image	 Ubuntu 20.04 LTS

[CHANGE](#)

## Monthly estimate

\$35.67

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	\$30.17
50 GB balanced persistent disk	\$5.50
Total	\$35.67

[Compute Engine pricing](#)[▲ LESS](#)Identity and API access Service accounts  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 

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Firewall 

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

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Observability - Ops Agent [CREATE](#)[CANCEL](#)

EQUIVALENT CODE

## ← Create an instance

EQUIVALENT CODE

**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**Boot disk** ?

Name	first-vps
Type	New balanced persistent disk
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**CHANGE****Identity and API access** ?**Service accounts** ?**Service account**  
Compute Engine default service accountRequires 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** ?

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**Observability - Ops Agent** ?**CREATE****CANCEL****EQUIVALENT CODE****Monthly estimate****\$35.67**

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[Compute Engine pricing](#)**▲ LESS**

## Create an instance

EQUIVALENT CODE

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Size	50 GB
License type <span>?</span>	Free
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CHANGE

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Compute Engine pricing ↗

▲ LESS

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Observability - Ops Agent ?

CREATE

CANCEL

EQUIVALENT CODE

## ← Create an instance

EQUIVALENT CODE

CHANGE

## Identity and API access

## Service accounts

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Compute Engine default service account



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[Compute Engine pricing](#)

LESS

## Firewall

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

- Allow HTTP traffic
- Allow HTTPS traffic
- Allow Load Balancer Health Checks

## Observability - Ops Agent

Monitor your system through collection of logs and key metrics.

- Install Ops Agent for Monitoring and Logging

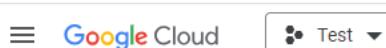
## Advanced options

Networking, disks, security, management, sole-tenancy

**CREATE**

CANCEL

EQUIVALENT CODE



Search (/) for resources, docs, products, and more



## Compute Engine

VM instances CREATE INSTANCE IMPORT VM REFRESH

INSTANCES OBSERVABILITY INSTANCE SCHEDULES

## VM instances

Filter Enter property name or value

<input type="checkbox"/> Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	first-vps						

## Related actions

## Virtual machines

VM instances

Instance templates

Sole-tenant nodes

Machine images

TPUs

Committed use discounts

Reservations

Migrate to Virtual Machin...

## Storage

Disks

Snapshots

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Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH LEARN

Virtual machines VM instances Instance templates Sole-tenant nodes Machine images TPUs Committed use discounts Reservations Migrate to Virtual Machin...

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

Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	<a href="#">first-vps</a>	asia-southeast1-b			10.148.0.3 (nic0)	34.143.154.174 (nic0)	SSH

Related actions HIDE

Explore Backup and DR NEW Back up your VMs and set up disaster recovery

View billing report View and manage your Compute Engine billing

Monitor VMs View outlier VMs across metrics like CPU and network

Explore VM logs View, search, analyze, and download VM instance logs

Set up firewall rules Control traffic to and from a VM instance

Patch management Schedule patch updates and view patch compliance on VM instances

Load balance between VMs Set up Load Balancing for your applications as your traffic and users grow

# **Open the Command Prompt.**

C:\Windows\system32\cmd.e X + |

- □ X

Microsoft Windows [Version 10.0.22631.3155]  
(c) Microsoft Corporation. All rights reserved.

C:\Users\Thili>

C:\Windows\system32\cmd.e X + |

- □ X

Microsoft Windows [Version 10.0.22631.3155]  
(c) Microsoft Corporation. All rights reserved.

C:\Users\Thili>ping 34.143.154.174

C:\Windows\system32\cmd.e X + ^

- □ ×

Microsoft Windows [Version 10.0.22631.3155]  
(c) Microsoft Corporation. All rights reserved.

C:\Users\Thili>ping 34.143.154.174

Pinging 34.143.154.174 with 32 bytes of data:

Reply from 34.143.154.174: bytes=32 time=53ms TTL=53  
Reply from 34.143.154.174: bytes=32 time=49ms TTL=53  
Reply from 34.143.154.174: bytes=32 time=71ms TTL=53  
Reply from 34.143.154.174: bytes=32 time=50ms TTL=53

Ping statistics for 34.143.154.174:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 49ms, Maximum = 71ms, Average = 55ms

C:\Users\Thili>

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Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH LEARN

Virtual machines VM instances Instance templates Sole-tenant nodes Machine images TPUs Committed use discounts Reservations Migrate to Virtual Machines Disks

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

first-vps asia-southeast1-b 10.148.0.3 (nic0) 34.143.154.174 (nic0) SSH

Related actions HIDE

Explore Backup and DR NEW View billing report Monitor VMs Explore VM logs Set up firewall rules

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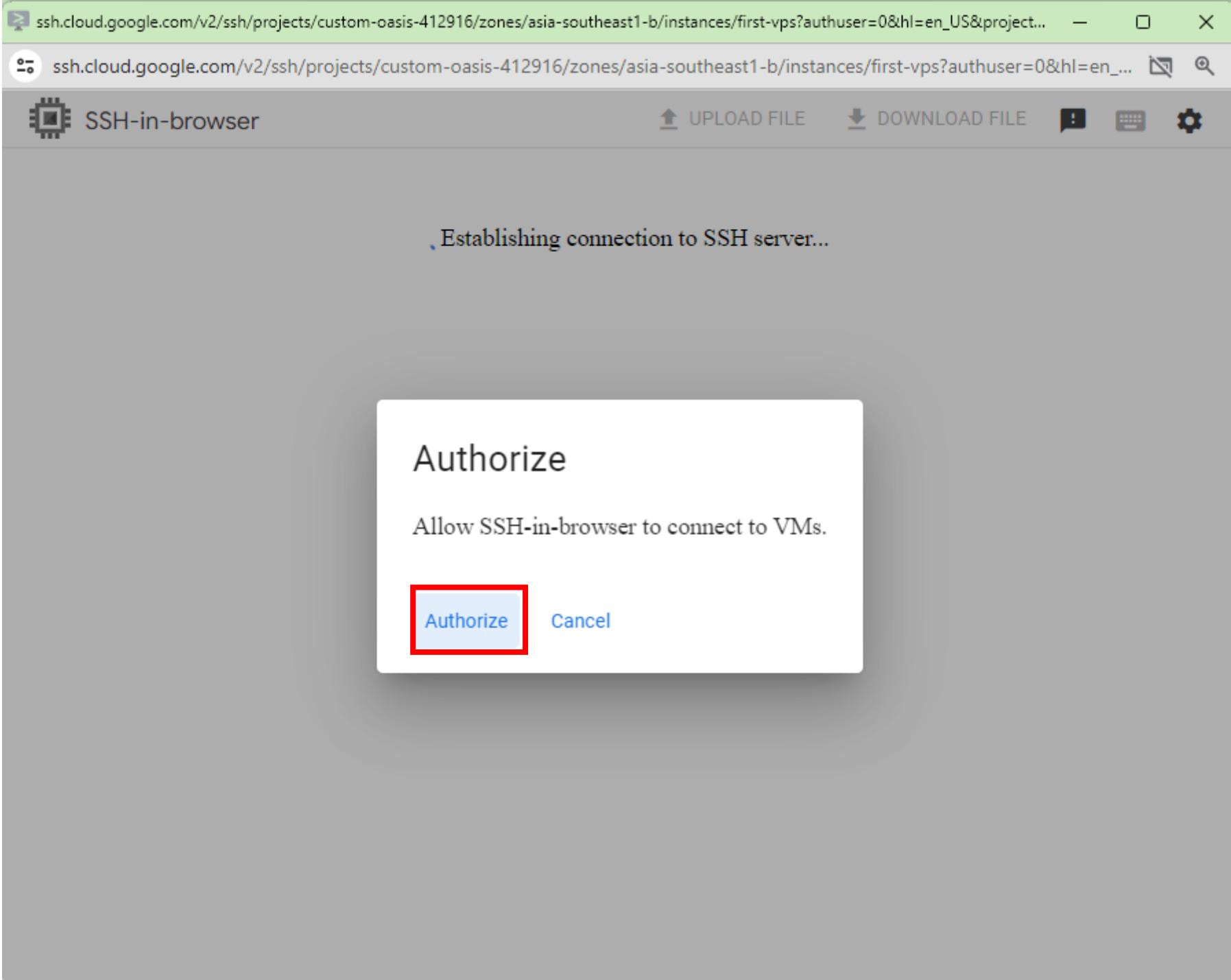
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ssh.cloud.google.com/v2/ssh/projects/custom-oasis-412916/zones/asia-southeast1-b/instances/first-vps?authuser=0&hl=en\_US&project... — ×

ssh.cloud.google.com/v2/ssh/projects/custom-oasis-412916/zones/asia-southeast1-b/instances/first-vps?authuser=0&hl=en\_US&p... 🔍

 SSH-in-browser  UPLOAD FILE  DOWNLOAD FILE   

 Transferring SSH keys to the VM.





SSH-in-browser

[UPLOAD FILE](#)[DOWNLOAD FILE](#)

\* Documentation: <https://help.ubuntu.com>  
\* Management: <https://landscape.canonical.com>  
\* Support: <https://ubuntu.com/pro>

System information as of Wed Feb 28 17:10:14 UTC 2024

System load: 0.0 Processes: 102  
Usage of /: 3.9% of 48.27GB Users logged in: 0  
Memory usage: 5% IPv4 address for ens4: 10.148.0.3  
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 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.

thilina\_jiat@first-vps:~\$ sudo su[ ]



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

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```
thilina_jiat@first-vps:~$ sudo su  
root@first-vps:/home/thilina_jiat# 
```



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System information as of Wed Feb 28 17:10:14 UTC 2024

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thilina\_jiat@first-vps:~\$ sudo su  
root@first-vps:/home/thilina\_jiat# apt update[ ]



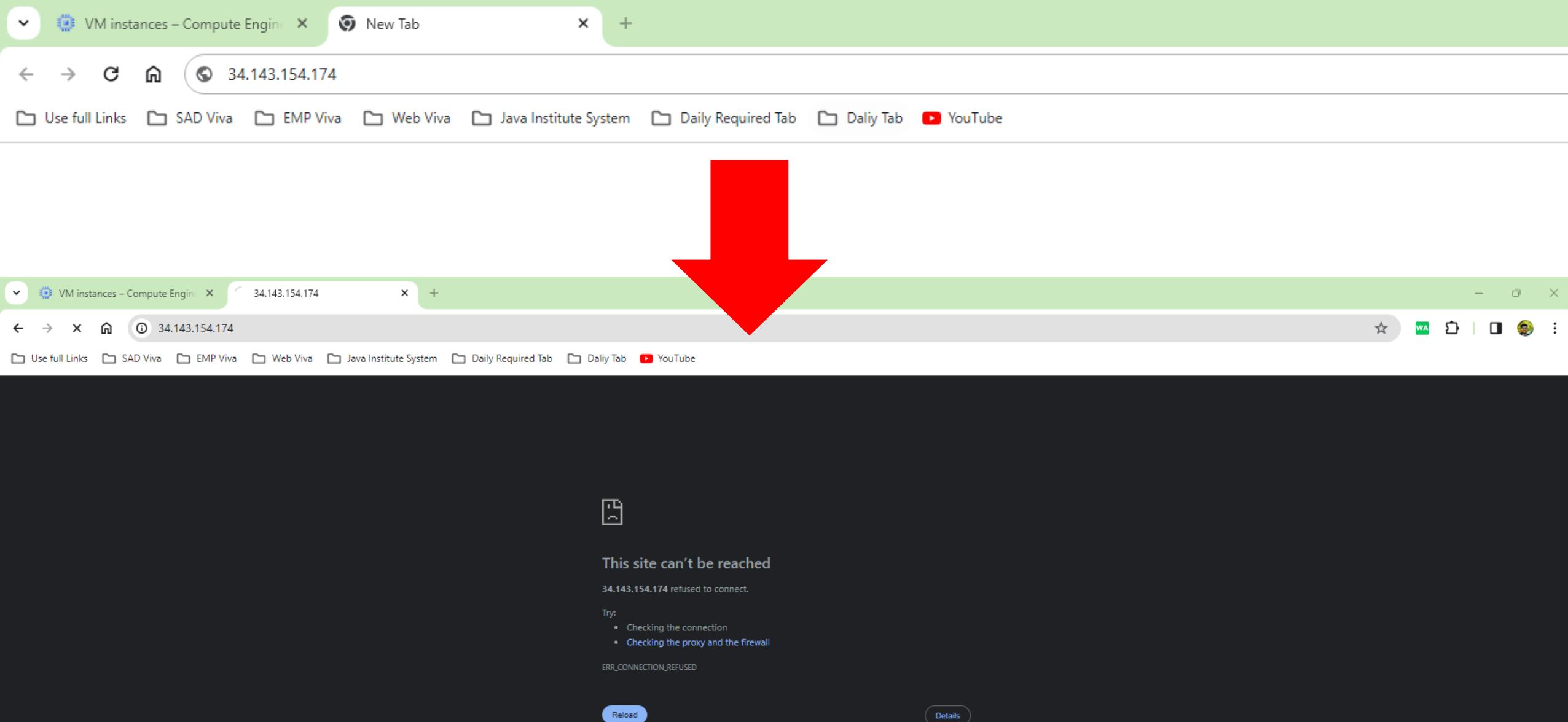
```
-f Metadata [880 B]
Get:28 http://asia-southeast1.gce.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c
-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [2752 kB]
Get:30 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [418 kB]
Get:31 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [2606 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [363 kB]
Get:33 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [943 kB]
Get:34 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [198 kB]
Get:35 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [19.2 kB]
]
Get:36 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [23.9 kB]
Get:37 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [5796 B]
Get:38 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [548 B]
]
Fetched 30.3 MB in 6s (4962 kB/s)
```

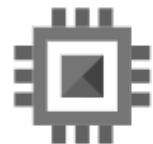
```
Reading package lists... Done
Building dependency tree
Reading state information... Done
1 package can be upgraded. Run 'apt list --upgradable' to see it.
root@first-vps:/home/thilina_jiat# 
```



```
-f Metadata [880 B]
Get:28 http://asia-southeast1.gce.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c
-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [2752 kB]
Get:30 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [418 kB]
Get:31 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [2606 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [363 kB]
Get:33 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [943 kB]
Get:34 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [198 kB]
Get:35 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [19.2 kB]
]
Get:36 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [23.9 kB]
Get:37 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-en [5796 B]
Get:38 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [548 B]
]
Fetched 30.3 MB in 6s (4962 kB/s)
```

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
1 package can be upgraded. Run 'apt list --upgradable' to see it.
root@first-vps:/home/thilina_jiat# clear[]
```





# SSH-in-browser



UPLOAD FILE

```
root@first-vps:/home/thilina_jiat# apt install apache2
```



SSH-in-browser

UPLOAD FILE

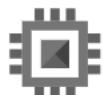
DOWNLOAD FILE



```
root@first-vps:/home/thilina_jiat# apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libataSMART4 libblockdev-fs2 libblockdev-loop2 libblockdev-part-err2 libblockdev-part2
  libblockdev-swap2 libblockdev-utils2 libblockdev2 libmbim-glib4 libmbim-proxy libmm-glib0
  libnspr4 libnss3 libnuma1 libparted-fs-resize0 libqmi-glib5 libqmi-proxy libudisks2-0
  libxml2b2 usb-modeswitch usb-modeswitch-data
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
0 upgraded, 11 newly installed, 0 to remove and 1 not upgraded.
Need to get 1872 kB of archives.
After this operation, 8118 kB of additional disk space will be used.
Do you want to continue? [Y/n] 
```



```
root@first-vps:/home/thilina_jiat# apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libatasmart4 libblockdev-fs2 libblockdev-loop2 libblockdev-part-err2 libblockdev-part2
  libblockdev-swap2 libblockdev-utils2 libblockdev2 libmbim-glib4 libmbim-proxy libmm-glib0
  libnspr4 libnss3 libnuma1 libparted-fs-resize0 libqmi-glib5 libqmi-proxy libudisks2-0
  libxmlb2 usb-modeswitch usb-modeswitch-data
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
0 upgraded, 11 newly installed, 0 to remove and 1 not upgraded.
Need to get 1872 kB of archives.
After this operation, 8118 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y[
```



```
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.  
Processing triggers for ufw (0.36-6ubuntu1.1) ...  
Processing triggers for systemd (245.4-4ubuntu3.23) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...  
[]
```



```
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.  
Processing triggers for ufw (0.36-6ubuntu1.1) ...  
Processing triggers for systemd (245.4-4ubuntu3.23) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...  
root@first-vps:/home/thilina_jiat# █
```

VM instances – Compute Engine x Apache2 Ubuntu Default Page x +

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# Apache2 Ubuntu 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

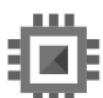
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. 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
```



```
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.  
Processing triggers for ufw (0.36-6ubuntu1.1) ...  
Processing triggers for systemd (245.4-4ubuntu3.23) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...  
root@first-vps:/home/thilina_jiat# service apache2 status[]
```



Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.

Processing triggers for ufw (0.36-6ubuntu1.1) ...

Processing triggers for systemd (245.4-4ubuntu3.23) ...

Processing triggers for man-db (2.9.1-1) ...

Processing triggers for libc-bin (2.31-0ubuntu9.14) ...

root@first-vps:/home/thilina\_jiat# service apache2 status

- apache2.service - The Apache HTTP Server

  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)

  Active: **active (running)** since Wed 2024-02-28 17:25:07 UTC; 9min ago

    Docs: <https://httpd.apache.org/docs/2.4/>

    Main PID: 2551 (apache2)

    Tasks: 55 (limit: 4680)

    Memory: 5.3M

    CGroup: /system.slice/apache2.service

      └─2551 /usr/sbin/apache2 -k start

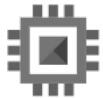
      └─2553 /usr/sbin/apache2 -k start

        └─2554 /usr/sbin/apache2 -k start

Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...

Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.

root@first-vps:/home/thilina\_jiat# []



```
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib  
/systemd/system/apache-htcacheclean.service.
```

```
Processing triggers for ufw (0.36-6ubuntu1.1) ...
```

```
Processing triggers for systemd (245.4-4ubuntu3.23) ...
```

```
Processing triggers for man-db (2.9.1-1) ...
```

```
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...
```

```
root@first-vps:/home/thilina_jiat# service apache2 status
```

- apache2.service - The Apache HTTP Server

```
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
```

```
  Active: active (running) since Wed 2024-02-28 17:25:07 UTC; 9min ago
```

```
    Docs: https://httpd.apache.org/docs/2.4/
```

```
    Main PID: 2551 (apache2)
```

```
    Tasks: 55 (limit: 4680)
```

```
    Memory: 5.3M
```

```
    CGroup: /system.slice/apache2.service
```

```
      └─2551 /usr/sbin/apache2 -k start
```

```
        ├─2553 /usr/sbin/apache2 -k start
```

```
        └─2554 /usr/sbin/apache2 -k start
```

```
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
```

```
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
```

```
root@first-vps:/home/thilina_jiat# service apache2 stop[]
```



```
/systemd/system/apache-htcacheload.service.
Processing triggers for ufw (0.36-6ubuntu1.1) ...
Processing triggers for systemd (245.4-4ubuntu3.23) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...
root@first-vps:/home/thilina_jiat# service apache2 status
● apache2.service - The Apache HTTP Server
    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
    Active: active (running) since Wed 2024-02-28 17:25:07 UTC; 9min ago
      Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2551 (apache2)
     Tasks: 55 (limit: 4680)
    Memory: 5.3M
   CGroup: /system.slice/apache2.service
           ├─2551 /usr/sbin/apache2 -k start
           ├─2553 /usr/sbin/apache2 -k start
           └─2554 /usr/sbin/apache2 -k start
```

```
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
root@first-vps:/home/thilina_jiat# service apache2 stop
root@first-vps:/home/thilina_jiat# 
```



```
/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36-6ubuntu1.1) ...
Processing triggers for systemd (245.4-4ubuntu3.23) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...
root@first-vps:/home/thilina_jiat# service apache2 status
● apache2.service - The Apache HTTP Server
    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
    Active: active (running) since Wed 2024-02-28 17:25:07 UTC; 9min ago
      Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 2551 (apache2)
     Tasks: 55 (limit: 4680)
    Memory: 5.3M
   CGroup: /system.slice/apache2.service
           ├─2551 /usr/sbin/apache2 -k start
           ├─2553 /usr/sbin/apache2 -k start
           └─2554 /usr/sbin/apache2 -k start

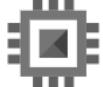
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
root@first-vps:/home/thilina_jiat# service apache2 stop
root@first-vps:/home/thilina_jiat# service apache2 status[]
```



```
CGroup: /system.slice/apache2.service
└─2551 /usr/sbin/apache2 -k start
  ├─2553 /usr/sbin/apache2 -k start
  └─2554 /usr/sbin/apache2 -k start
```

```
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
root@first-vps:/home/thilina_jiat# service apache2 stop
root@first-vps:/home/thilina_jiat# service apache2 status
● apache2.service - The Apache HTTP Server
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
  Active: inactive (dead) since Wed 2024-02-28 17:39:26 UTC; 4min 10s ago
    Docs: https://httpd.apache.org/docs/2.4/
   Process: 2972 ExecStop=/usr/sbin/apachectl stop (code=exited, status=0/SUCCESS)
 Main PID: 2551 (code=exited, status=0/SUCCESS)
```

```
Feb 28 17:25:07 first-vps systemd[1]: starting The Apache HTTP Server...
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
Feb 28 17:39:26 first-vps systemd[1]: Stopping The Apache HTTP Server...
Feb 28 17:39:26 first-vps systemd[1]: apache2.service: Succeeded.
Feb 28 17:39:26 first-vps systemd[1]: Stopped The Apache HTTP Server.
root@first-vps:/home/thilina_jiat# 
```



```
CGroup: /system.slice/apache2.service
└─2551 /usr/sbin/apache2 -k start
  ├─2553 /usr/sbin/apache2 -k start
  └─2554 /usr/sbin/apache2 -k start
```

```
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
```

```
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
```

```
root@first-vps:/home/thilina_jiat# service apache2 stop
```

```
root@first-vps:/home/thilina_jiat# service apache2 status
```

```
● apache2.service - The Apache HTTP Server
```

```
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
```

```
  Active: inactive (dead) since Wed 2024-02-28 17:39:26 UTC; 4min 10s ago
```

```
    Docs: https://httpd.apache.org/docs/2.4/
```

```
  Process: 2972 ExecStop=/usr/sbin/apachectl stop (code=exited, status=0/SUCCESS)
```

```
  Main PID: 2551 (code=exited, status=0/SUCCESS)
```

```
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
```

```
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
```

```
Feb 28 17:39:26 first-vps systemd[1]: Stopping The Apache HTTP Server...
```

```
Feb 28 17:39:26 first-vps systemd[1]: apache2.service: Succeeded.
```

```
Feb 28 17:39:26 first-vps systemd[1]: Stopped The Apache HTTP Server.
```

```
root@first-vps:/home/thilina_jiat# service apache2 start]
```



```
|─2551 /usr/sbin/apache2 -k start
└─2553 /usr/sbin/apache2 -k start
  └─2554 /usr/sbin/apache2 -k start
```

```
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
```

```
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
```

```
root@first-vps:/home/thilina_jiat# service apache2 stop
```

```
root@first-vps:/home/thilina_jiat# service apache2 status
```

```
● apache2.service - The Apache HTTP Server
```

```
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
```

```
  Active: inactive (dead) since Wed 2024-02-28 17:39:26 UTC; 4min 10s ago
```

```
    Docs: https://httpd.apache.org/docs/2.4/
```

```
  Process: 2972 ExecStop=/usr/sbin/apachectl stop (code=exited, status=0/SUCCESS)
```

```
  Main PID: 2551 (code=exited, status=0/SUCCESS)
```

```
Feb 28 17:25:07 first-vps systemd[1]: Starting The Apache HTTP Server...
```

```
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
```

```
Feb 28 17:39:26 first-vps systemd[1]: Stopping The Apache HTTP Server...
```

```
Feb 28 17:39:26 first-vps systemd[1]: apache2.service: Succeeded.
```

```
Feb 28 17:39:26 first-vps systemd[1]: Stopped The Apache HTTP Server.
```

```
root@first-vps:/home/thilina_jiat# service apache2 start
```

```
root@first-vps:/home/thilina_jiat# service apache2 status
```



```
Feb 28 17:25:07 first-vps systemd[1]: Started The Apache HTTP Server.
Feb 28 17:39:26 first-vps systemd[1]: Stopping The Apache HTTP Server...
Feb 28 17:39:26 first-vps systemd[1]: apache2.service: Succeeded.
Feb 28 17:39:26 first-vps systemd[1]: Stopped The Apache HTTP Server.
root@first-vps:/home/thilina_jiat# service apache2 start
root@first-vps:/home/thilina_jiat# service apache2 status
● apache2.service - The Apache HTTP Server
    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
    Active: active (running) since Wed 2024-02-28 17:46:44 UTC; 54s ago
      Docs: https://httpd.apache.org/docs/2.4/
   Process: 2995 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 2999 (apache2)
    Tasks: 55 (limit: 4680)
   Memory: 4.8M
      CGroup: /system.slice/apache2.service
              └─2999 /usr/sbin/apache2 -k start
                  ├─3000 /usr/sbin/apache2 -k start
                  └─3001 /usr/sbin/apache2 -k start

Feb 28 17:46:44 first-vps systemd[1]: Starting The Apache HTTP Server...
Feb 28 17:46:44 first-vps systemd[1]: Started The Apache HTTP Server.
root@first-vps:/home/thilina_jiat# 
```

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Older releases are available and the **Git** source repository is on GitHub. Latest source Release.  
2.44.0 Release Notes (2024-02-23) Download for Linux ...

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# git --everything-is-local

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## About

## Documentation

## Downloads

GUI Clients  
Logos

## Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

# Downloads

macOS Windows Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

## GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

## Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

Latest source Release  
**2.44.0**  
[Release Notes \(2024-02-23\)](#)

Download for Windows



## About

## Documentation

## Downloads

GUI Clients

Logos

## Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to read [online for free](#). Dead tree versions are available on [Amazon.com](#).

# Download for Windows

[Click here to download](#) the latest (2.44.0) 64-bit version of **Git for Windows**. This is the most recent maintained build. It was released **5 days ago**, on 2024-02-23.

## Other Git for Windows downloads

[Standalone Installer](#)

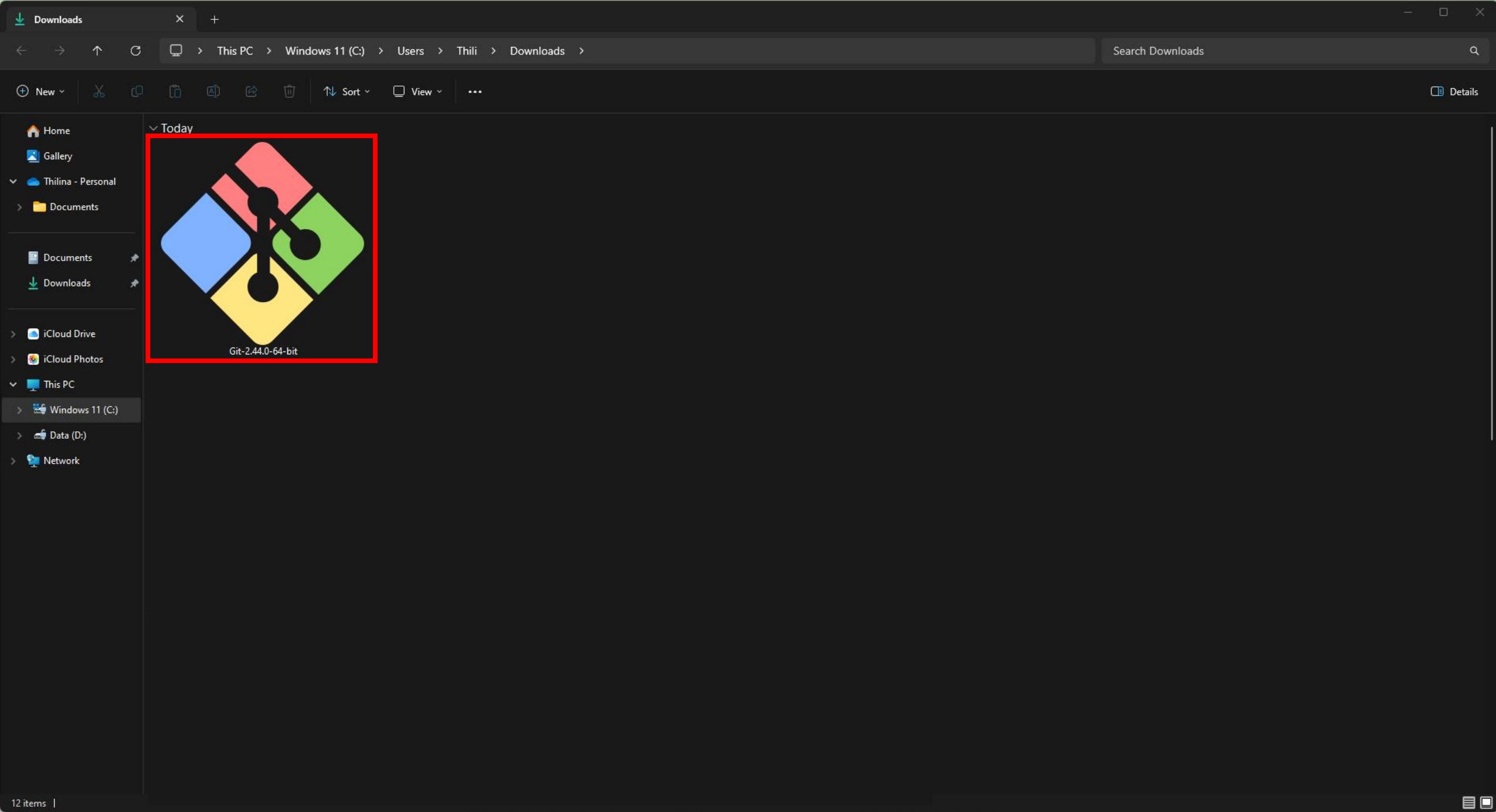
[32-bit Git for Windows Setup.](#)

[64-bit Git for Windows Setup.](#)

[Portable \("thumbdrive edition"\)](#)

[32-bit Git for Windows Portable.](#)

[64-bit Git for Windows Portable.](#)



**Information**

Please read the following important information before continuing.

When you are ready to continue with Setup, click Next.

## GNU General Public License

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

### Preamble

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
License is intended to guarantee your freedom to share and change

<https://gitforwindows.org/>



Only show new options

Install

Cancel



Git 2.44.0 Setup



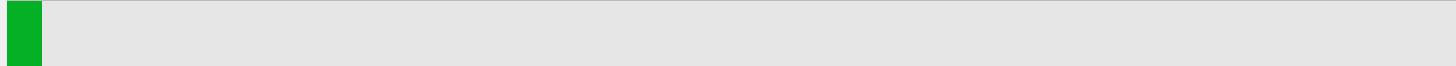
## Installing

Please wait while Setup installs Git on your computer.



Extracting files...

C:\Program Files\Git\mingw64\bin\brotli.exe



<https://gitforwindows.org/>

Only show new options

Cancel

## Completing the Git Setup Wizard

Setup has finished installing Git on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

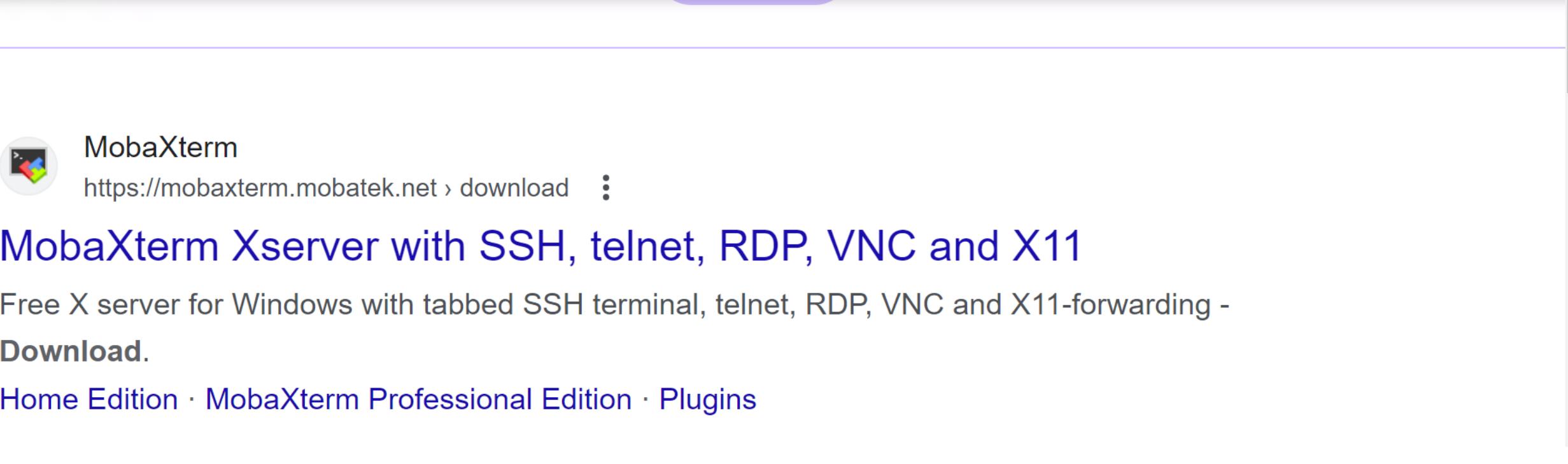
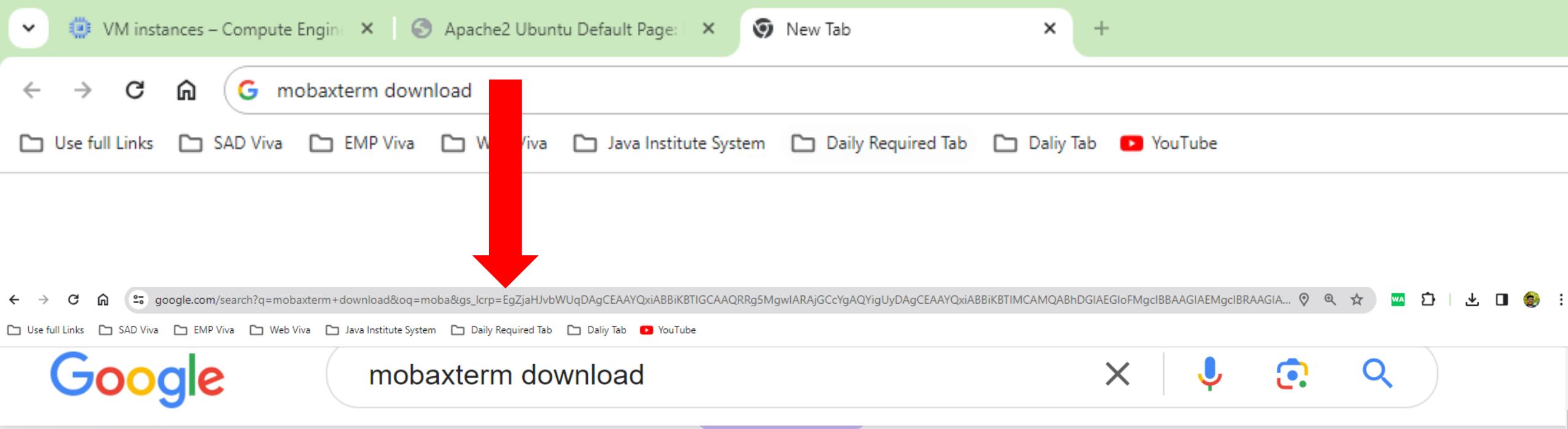
Launch Git Bash

View Release Notes



Only show new options

Finish





## Home Edition

### Free

- Full X server and SSH support
- Remote desktop (RDP, VNC, Xdmcp)
- Remote terminal (SSH, telnet, rlogin, Mosh)
- X11-Forwarding
- Automatic SFTP browser
- Master password protection
- Plugins support
- Portable and installer versions
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- Max. **12** sessions
- Max. **2** SSH tunnels
- Max. **4** macros
- Max. **360** seconds for Tftp, Nfs and Cron

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## Professional Edition

### \$69 / 49€ per user\*

\* Excluding tax. Volume discounts [available](#)

#### Every feature from Home Edition +

- Customize your startup message and logo
- Modify your profile script
- Remove unwanted games, screensaver or tools
- Unlimited number of sessions
- Unlimited number of tunnels and macros
- Unlimited run time for network daemons
- Enhanced security settings
- 12-months updates included
- Deployment inside company
- Lifetime right to use

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## MobaXterm Home Edition

Download MobaXterm Home Edition (current version):



[MobaXterm Home Edition v23.6  
\(Portable edition\)](#)



[MobaXterm Home Edition v23.6  
\(Installer edition\)](#)

Download previous stable version: [MobaXterm Portable v23.5](#) [MobaXterm Installer v23.5](#)

You can also get early access to the latest features and improvements by downloading MobaXterm Preview version:

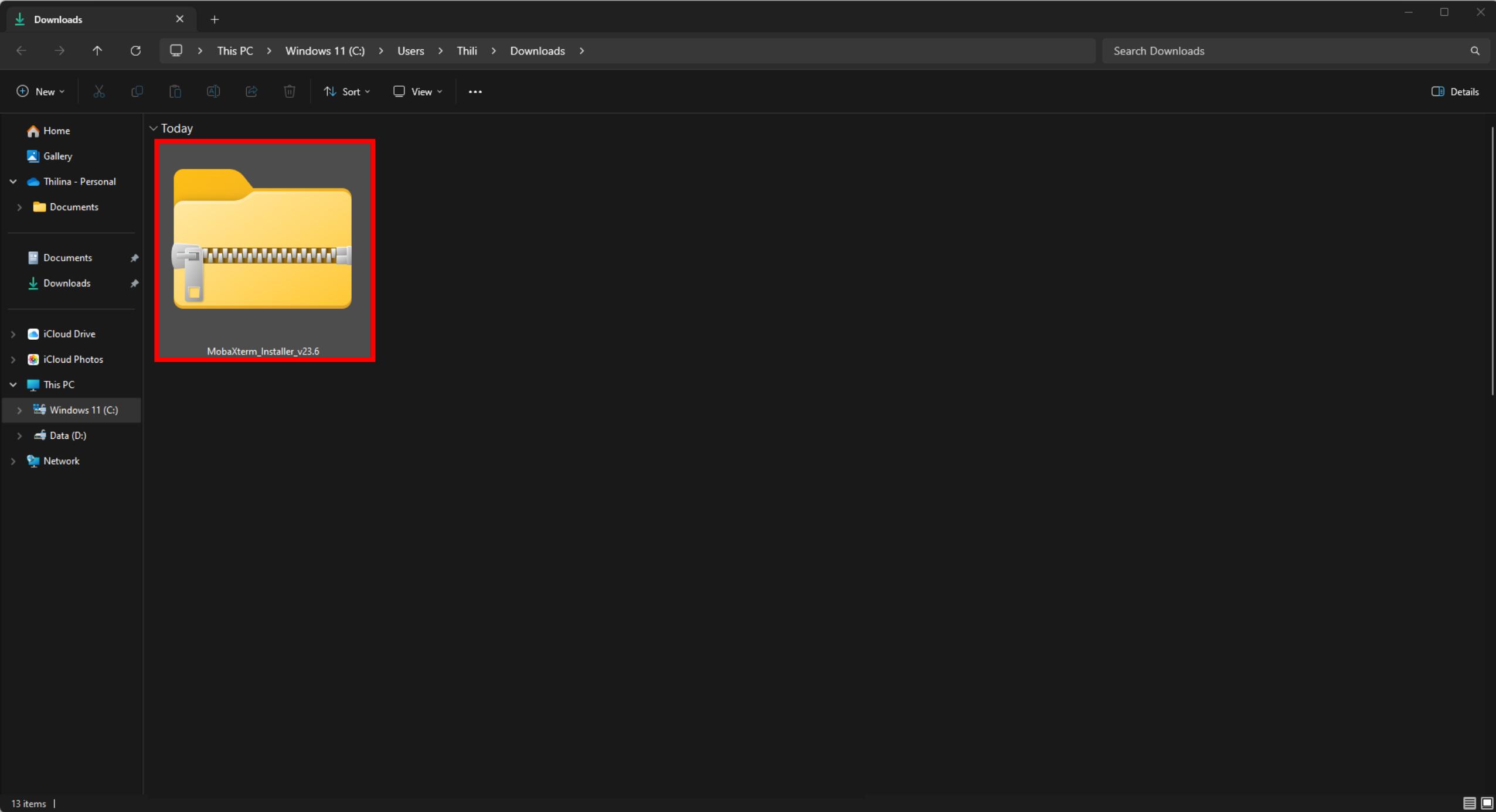
[MobaXterm Preview Version](#)

By downloading MobaXterm software, you accept [MobaXterm terms and conditions](#)

You can download the third party plugins and components sources [here](#)

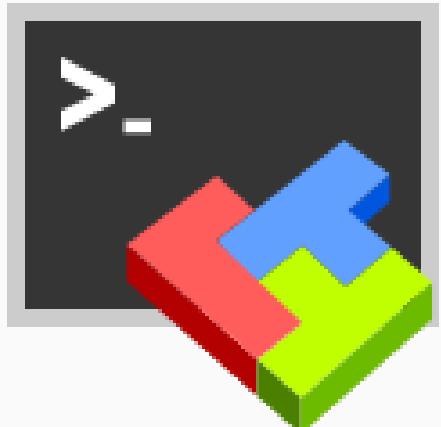


If you use MobaXterm inside your company, you should consider subscribing to [MobaXterm Professional Edition](#): your subscription will give you access to professional support and to the "Customizer" software. This customizer will allow you to generate personalized versions of MobaXterm including your own logo, your default settings and your welcome message.  
Please [contact us](#) for more information.





## Welcome to the MobaXterm Setup Wizard



The Setup Wizard will install MobaXterm on your computer.  
Click **Next** to continue or **Cancel** to exit the Setup Wizard.



## End-User License Agreement

Please read the following license agreement carefully



### MOBAXTERM END USER LICENSE AGREEMENT

Version dated June 15, 2021

By downloading, installing, using or copying MobaXterm Home Edition software package, you accept and agree to be bound by the terms of the Mobatek Home Edition end user license agreement (section 1.a).

By downloading, installing, using or copying MobaXterm Professional Edition software package, you accept and agree to be bound by the terms of the Mobatek Professional Edition end user license agreement (section 1.b).

I accept the terms in the License Agreement

Print

Back

Next

Cancel



## End-User License Agreement

Please read the following license agreement carefully



### MOBAXTERM END USER LICENSE AGREEMENT

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Next

Cancel



MobaXterm Setup

## Destination Folder

Click Next to install to the default folder or click Change to choose another.



Install MobaXterm to:

C:\Program Files (x86)\Mobatek\MobaXterm\

[Change...](#)

Back

Next

Cancel



## Ready to install MobaXterm



Click **Install** to begin the installation. Click **Back** to review or change any of your installation settings. Click **Cancel** to exit the wizard.

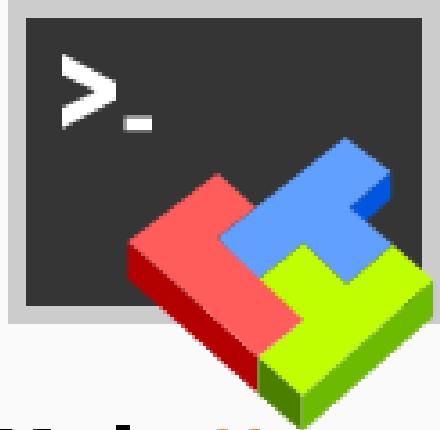
Back

 **Install**

Cancel



Completed the MobaXterm Setup Wizard



Click the Finish button to exit the Setup Wizard.

Thili@ThilinaNotebook MINGW64 ~  
\$ ssh-keygen -t rsa



Thili@ThilinaNotebook MINGW64 ~  
\$ ssh-keygen -t rsa  
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/Thili/.ssh/id\_rsa): |



Thili@ThilinaNotebook MINGW64 ~  
\$ ssh-keygen -t rsa  
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/Thili/.ssh/id\_rsa):  
Created directory '/c/Users/Thili/.ssh'.  
Enter passphrase (empty for no passphrase): |

```
Thili@ThilinaNotebook MINGW64 ~
$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/Thili/.ssh/id_rsa):
Created directory '/c/Users/Thili/.ssh'.
Enter passphrase (empty for no passphrase): |
```



```
Thili@ThilinaNotebook MINGW64 ~
$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/Thili/.ssh/id_rsa):
Created directory '/c/Users/Thili/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again: |
```

Thili@ThilinaNotebook MINGW64 ~

```
$ ssh-keygen -t rsa
```

Generating public/private rsa key pair.

Enter file in which to save the key (/c/Users/Thili/.ssh/id\_rsa):

Created directory '/c/Users/Thili/.ssh'.

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /c/Users/Thili/.ssh/id\_rsa

Your public key has been saved in /c/Users/Thili/.ssh/id\_rsa.pub

The key fingerprint is:

SHA256:K7Fbx6wcODx/9Kis5LhAv6K20GfEiLBfKvg0nH7FMTM Thili@ThilinaNotebook

The key's randomart image is:

```
+---[RSA 3072]---
```

```
|
```

```
|
```

```
| . E
```

```
| o+ o * S
```

```
| = +..+ +.o ..
```

```
| o= oo ++B...oo
```

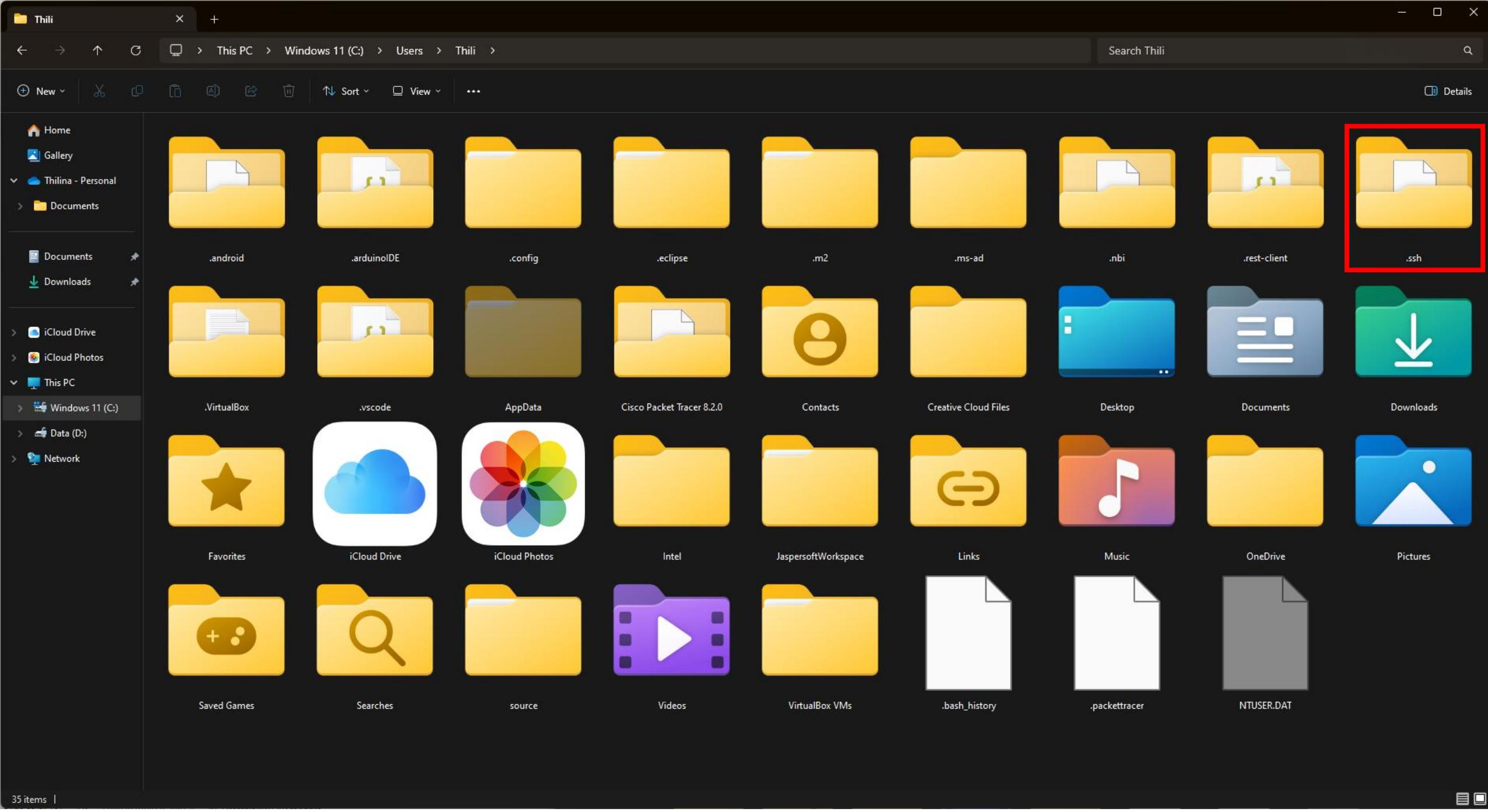
```
| =o*....=+* +o .
```

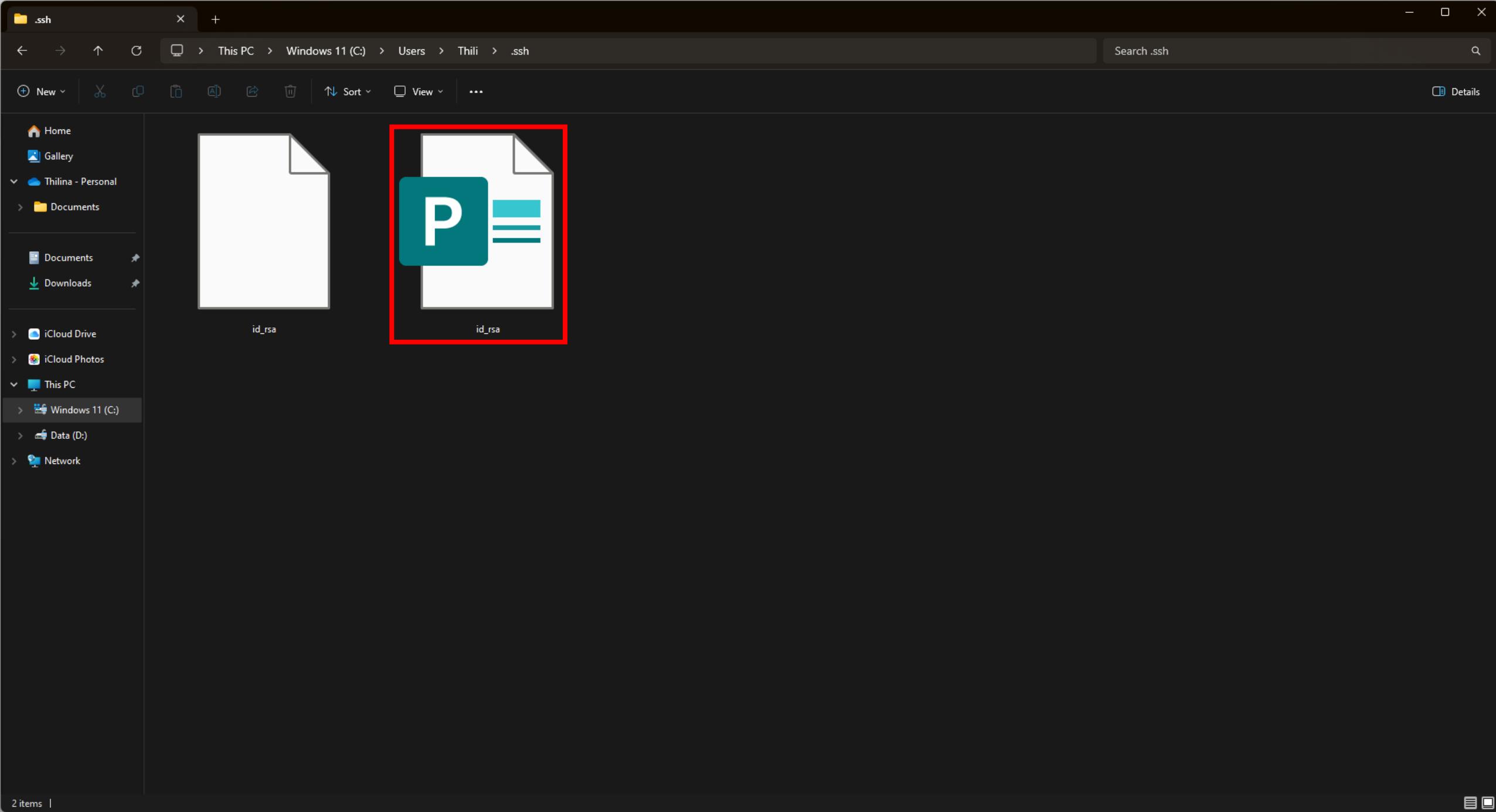
```
| .X*o .+. .*o
```

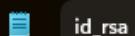
```
+---[SHA256]---
```

Thili@ThilinaNotebook MINGW64 ~

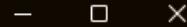
```
$ |
```







id\_rsa



File Edit View



ssh-rsa

AAAAB3NzaC1yc2EAAAQABAAQDbt3vIT6gKvDmZF2INId5bwLsUod67fJCPr+  
6mVHoxzEcUaF6tSd/CL9IxLU79vLN2srjYj9OgKq5EdR4i6Ey4w8/ZqC/5XIyi54QDCLIA  
/6IITpBfHXKe5JXFOVA17gDbc9mSagG3qrYbvr7EpPMMg6fFA+FV6YGypyPr9VyeuH2  
Ao8laSu9NxadRMjsGKtuzGHJ9wEzsHUSAD3feihuDEnOuf1gwDI7zSjk3GcbNIA2jcKzh  
M7Wu5il+ZnVQaC6K0sajj+F9um2CFLkFHjnzEdOWzjGcj6KTrZ4j/wvrgk1DgH9C8Ei7m  
mwy9WkFxvMdzF8kZAVsCkPtcPikRaAVoRKFD3Y4SF1I7AdkO4NCcZOX7huch2gd473  
vUfoMLsoJmY1xp5dZgGTqyF7okocfgtb0xkkCnuqHLhHF1/dXtb0tQtrYcvdedKU+cSFs  
crvlejfyqoXOnfpnJEXbuV8sRIN7LQon47yj/oWmA/nCL7PvHuNnT6YSy2GrC53is=  
Thili@ThilinaNotebook

VM instances – Compute Engine × Apache2 Ubuntu Default Page: × +

console.cloud.google.com/compute/instances?onCreate=true&hl=en&project=custom-oasis-412916

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INSTANCES OBSERVABILITY INSTANCE SCHEDULES

VM instances

Filter Enter property name or value

<input type="checkbox"/> Status	Name 	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	first-vps	asia-southeast1-b			10.148.0.3 (nic0)	34.143.154.174 (nic0)	SSH 

first-vps - Compute Engine - Apache2 Ubuntu Default Page

console.cloud.google.com/compute/instancesDetail/zones/asia-southeast1-b/instances/first-vps?hl=en&project=custom-oasis-412916

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DETAILS OBSERVABILITY OS INFO SCREENSHOT SSH CONNECT TO SERIAL CONSOLE Connecting to serial ports is disabled

Logs Logging Serial port 1 (console) SHOW MORE

Basic information

Name	first-vps
Instance Id	8586274050353060064
Description	None
Type	Instance
Status	Running
Creation time	Feb 28, 2024, 10:27:52 PM UTC+05:30
Zone	asia-southeast1-b
Instance template	None
In use by	None
Reservations	Automatically choose
Labels	None
Tags	-
Deletion protection	Disabled
Confidential VM service	Disabled
Preserved state size	0 GB

Machine configuration

Machine type	e2-medium
--------------	-----------

first-vps - Compute Engine - Apache2 Ubuntu Default Page

console.cloud.google.com/compute/instancesDetail/zones/asia-southeast1-b/instances/first-vps?hl=en&project=custom-oasis-412916

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Labels	None
Tags	-
Deletion protection	Disabled
Confidential VM service	Disabled
Preserved state size	0 GB

Machine configuration

Machine type	e2-medium
--------------	-----------

Edit first-vps instance – Compute Engine   Apache2 Ubuntu Default Page: | +

console.cloud.google.com/compute/instancesEdit/zones/asia-southeast1-b/instances/first-vps?hl=en&project=custom-oasis-412916

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← Edit first-vps instance

To edit Shielded VM features you need to stop the instance first.

Turn on all settings for the most secure configuration.

Turn on Secure Boot [?](#)

Turn on vTPM [?](#)

Turn on Integrity Monitoring [?](#)

**SSH Keys**

These keys allow access only to this instance, unlike project-wide SSH keys. [Learn more](#)

Block project-wide SSH keys  
When checked, project-wide SSH keys cannot access this instance. [Learn more](#)

SSH key 1 \*   
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAlbmlzdHA

Enter public SSH key

SSH key 2 \*   
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQAGHDCWkynDN3v/YqFipomt

Enter public SSH key

**+ ADD ITEM**

**Identity and API access** [?](#)

**Service accounts** [?](#)

You must stop the VM instance to edit its service account

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** [?](#)

You must stop the VM instance to edit its API access scopes

Allow default access

Allow full access to all Cloud APIs

**SAVE** CANCEL

id\_rsa

File Edit View

ssh-rsa

```
AAAAB3NzaC1yc2EAAAQABAAQDbt3vIT6gKvDmZF2INId5bwLsUod67fJCPr+  
6mVHoxzEcUaF6tSd/CL9IxLU79vLN2srjYj9OgKq5EdR4i6Ey4w8/ZqC/5XIyi54QDCLIA  
/6IITpBfHXKe5JXFOVA17gDbc9mSagG3qrYbvr7EpPMMg6fFA+FV6YGypyPr9VyeuH2  
Ao8laSu9NxadRMjsGKtuzGHJ9wEzsHUSAD3feihuDEn0uf1gwDI7zSjxk3GcbyNIA2jcKzh  
M7Wu5il+ZnVQaC6K0sajj+F9um2CFLkFHjnzEdOWzjGcj6KTrZ4j/wvrgk1DgH9C8Ei7m  
mwy9WkFxvMdzF8kZAVsCkPtcPikRaAVOiRKFD3Y4SF1I7AdkO4NCcZOX7huch2gd473  
vUfoMLsoJmY1xp5dZgGTqyF7okocfgtb0xkkCnuqHLhHF1/dXtb0tQtrYcvdedKU+cSFs  
crvlejfyoXOnfpnJEXbuV8sRIN7LQon47yj/oWmA/nCL7PvHuNnT6YSy2GrC53is=  
Thili@ThilinaNotebook
```

Copy the existing text.

Edit first-vps instance – Compute Engine

Apache2 Ubuntu Default Page

console.cloud.google.com/compute/instancesEdit/zones/asia-southeast1-b/instances/first-vps?hl=en&project=custom-oasis-412916

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Storage Disks Snapshots

Edit first-vps instance

To edit Snellen VM features you need to stop the instance first. Turn on all settings for the most secure configuration.

Turn on Secure Boot [?](#)

Turn on vTPM [?](#)

Turn on Integrity Monitoring [?](#)

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SSH key 1 \*   
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHA

Enter public SSH key

SSH key 2 \*   
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQAGHDCWkynDN3v/YqFipom(

Enter public SSH key

SSH key 3 \*

This screenshot shows the 'Edit first-vps instance' page in the Google Cloud Compute Engine interface. The left sidebar lists various Compute Engine services like VM instances, Instance templates, and Storage. The main panel shows security settings: 'Turn on vTPM' and 'Turn on Integrity Monitoring' are checked. It also displays three SSH key fields. The first field contains a long ecdsa-sha2-nistp256 key, the second contains an ssh-rsa key, and the third is empty and highlighted with a red border. A note at the top says 'To edit Snellen VM features you need to stop the instance first. Turn on all settings for the most secure configuration.'

Edit first-vps instance – Compute Engine   Apache2 Ubuntu Default Page

console.cloud.google.com/compute/instancesEdit/zones/asia-southeast1-b/instances/first-vps?hl=en&project=custom-oasis-412916

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- Instance templates
- Sole-tenant nodes
- Machine images
- TPUs
- Committed use discounts
- Reservations
- Migrate to Virtual Machine

Storage

- Disks
- Snapshots
- Images
- Async Replication

Instance groups

- Instance groups
- Health checks
- Marketplace
- Release Notes

Edit first-vps instance

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Turn on vTPM [?](#)

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Enter public SSH key

SSH key 2 \*   
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQAGHDCWkynDN3v/YqFipom(

Enter public SSH key

SSH key 3 \*   
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQgQDt3vIT6gKvDmZF2INld5bw(

Enter public SSH key

+ ADD ITEM

Identity and API access [?](#)

Service accounts [?](#)

You must stop the VM instance to edit its service account

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 [?](#)

SAVE CANCEL

Edit first-vps instance - Compute < Apache2 Ubuntu Default Page: console.cloud.google.com/compute/instancesEdit/zones/asia-southeast1-b/instances/first-vps?hl=en&project=custom-oasis-412916

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- Instance templates
- Sole-tenant nodes
- Machine images
- TPUs
- Committed use discounts
- Reservations
- Migrate to Virtual Machin...

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- Disks
- Snapshots
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Edit first-vps instance

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Turn on vTPM [?](#)

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SSH key 1 \*  
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmIzdHAYNTYAAAAbmIzdHA

Enter public SSH key

SSH key 2 \*  
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQAGHDCWkynDN3v/YqFipomt

Enter public SSH key

SSH key 3 \*  
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQgQDt3vIT6gKvDmZF2INld5bwI

Enter public SSH key

+ ADD ITEM

**Identity and API access** [?](#)

**Service accounts** [?](#)

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Compute Engine default service account

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Access scopes [?](#)

**SAVE** CANCEL

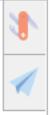


**Open the MobaXterm application.**



Quick connect...

User sessions



MobaXterm

Start local terminal

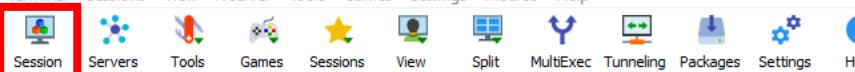
Recover previous sessions

Find existing session or server name...

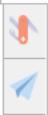
## Recent sessions

- 34.124.233.189
- ...
- ...
- ...
- ...
- ...
- ...
- ...

Enable advanced features and enhance security with MobaXterm Professional Edition!



Quick connect...



MobaXterm

Start local terminal

Recover previous sessions

Find existing session or server name...

## Recent sessions

- 34.124.233.189
- ...
- ...
- ...

Enable advanced features and enhance security with MobaXterm Professional Edition!

Session settings



SSH



Telnet



Rsh



Xdmcp



RDP



VNC



FTP



SFTP



Serial



File



Shell



Browser



Mosh



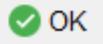
Aws S3



WSL



Choose a session type...



OK



Cancel

VM instances – Compute Engine X Apache2 Ubuntu Default Page: X | +

console.cloud.google.com/compute/instances?hl=en&project=custom-oasis-412916

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INSTANCES OBSERVABILITY INSTANCE SCHEDULES

VM instances

Filter Enter property name or value

Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input type="checkbox"/>	<input checked="" type="checkbox"/> first-vps	asia-southeast1-b			10.148.0.3 (nic0)	34.143.154.174 (nic0)	SSH

Related actions

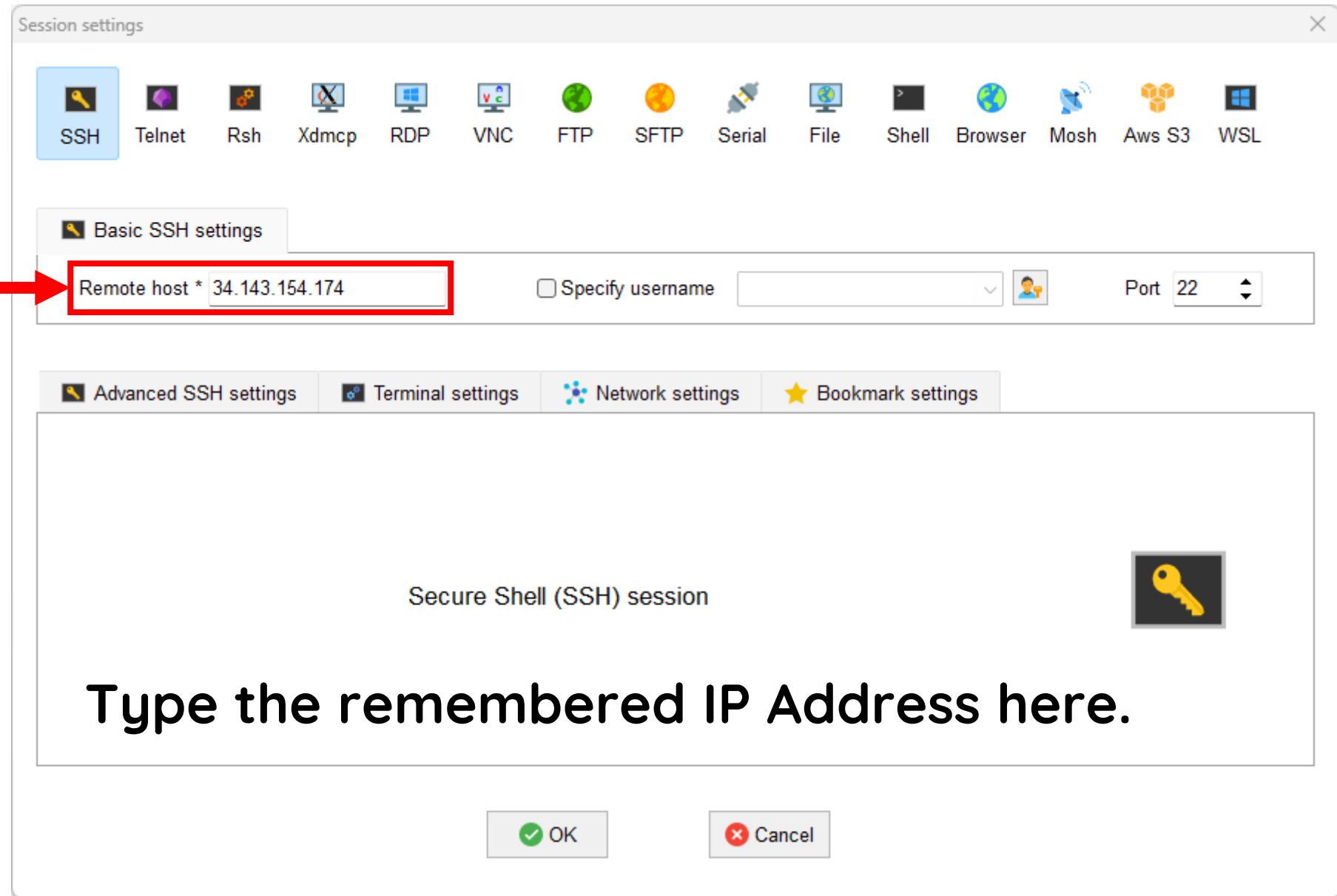
Explore Backup and DR NEW View billing report Monitor VMs Explore VM logs Set up firewall rules

View and manage your Compute Engine billing View outlier VMs across metrics like CPU and network View, search, analyze, and download VM instance logs Control traffic to and from a VM instance

Patch management Load balance between VMs

Schedule patch updates and view patch compliance on VM instances Set up Load Balancing for your applications as your traffic and users grow

Remember this IP address.



## Session settings



### Basic SSH settings

Remote host \* 34.143.154.174

Specify username

Port 22

### Advanced SSH settings

Terminal settings

Network settings

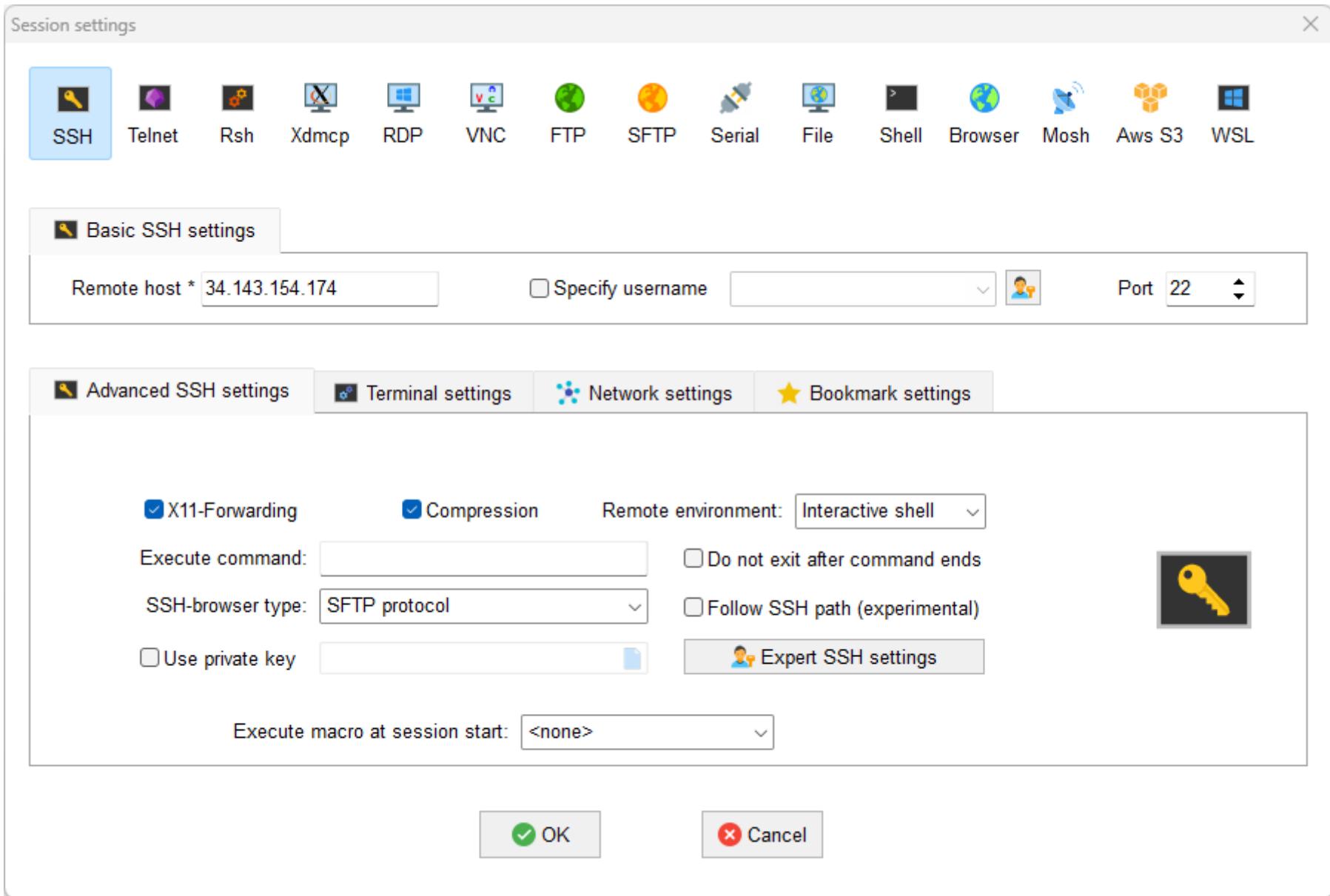
Bookmark settings

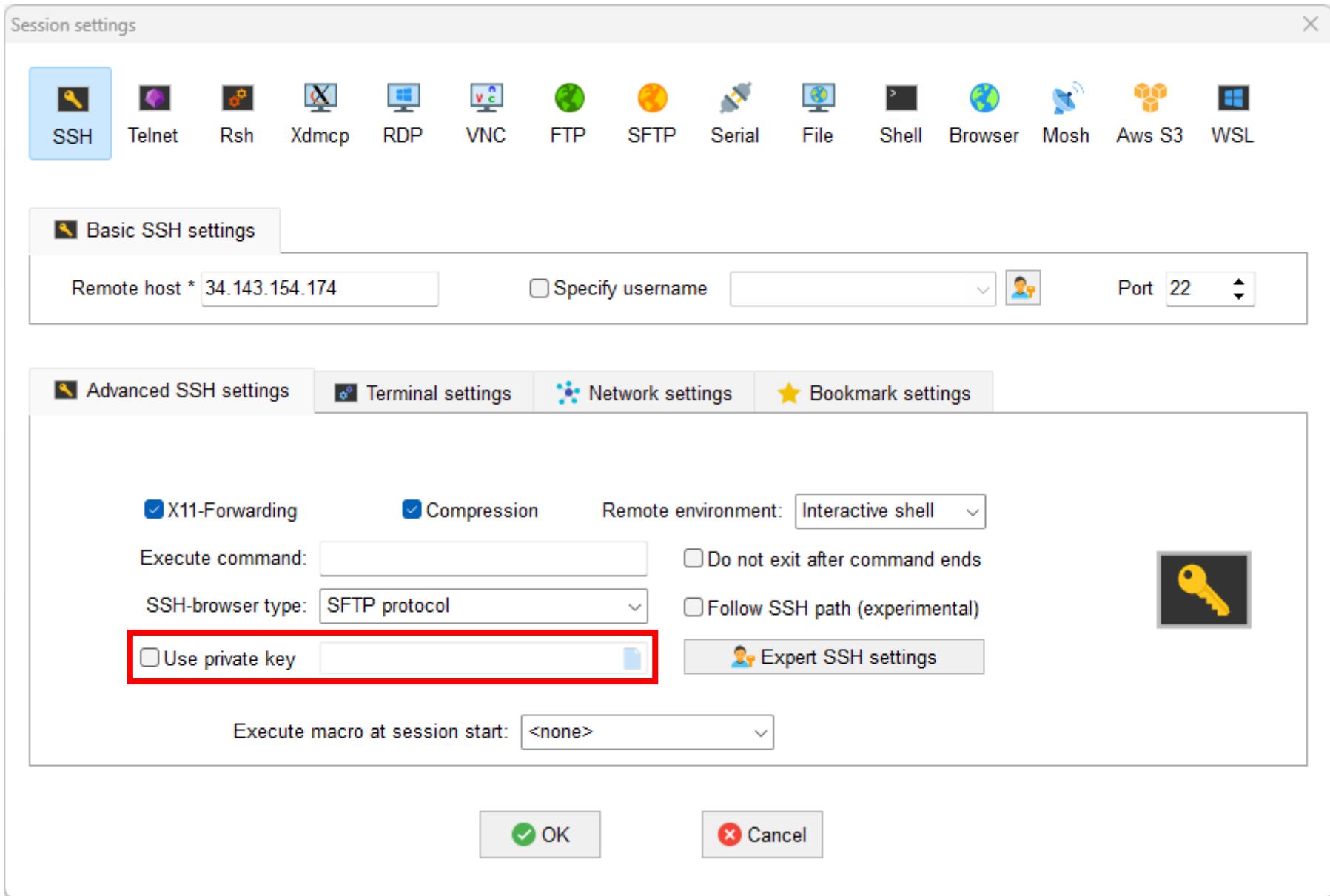
Secure Shell (SSH) session

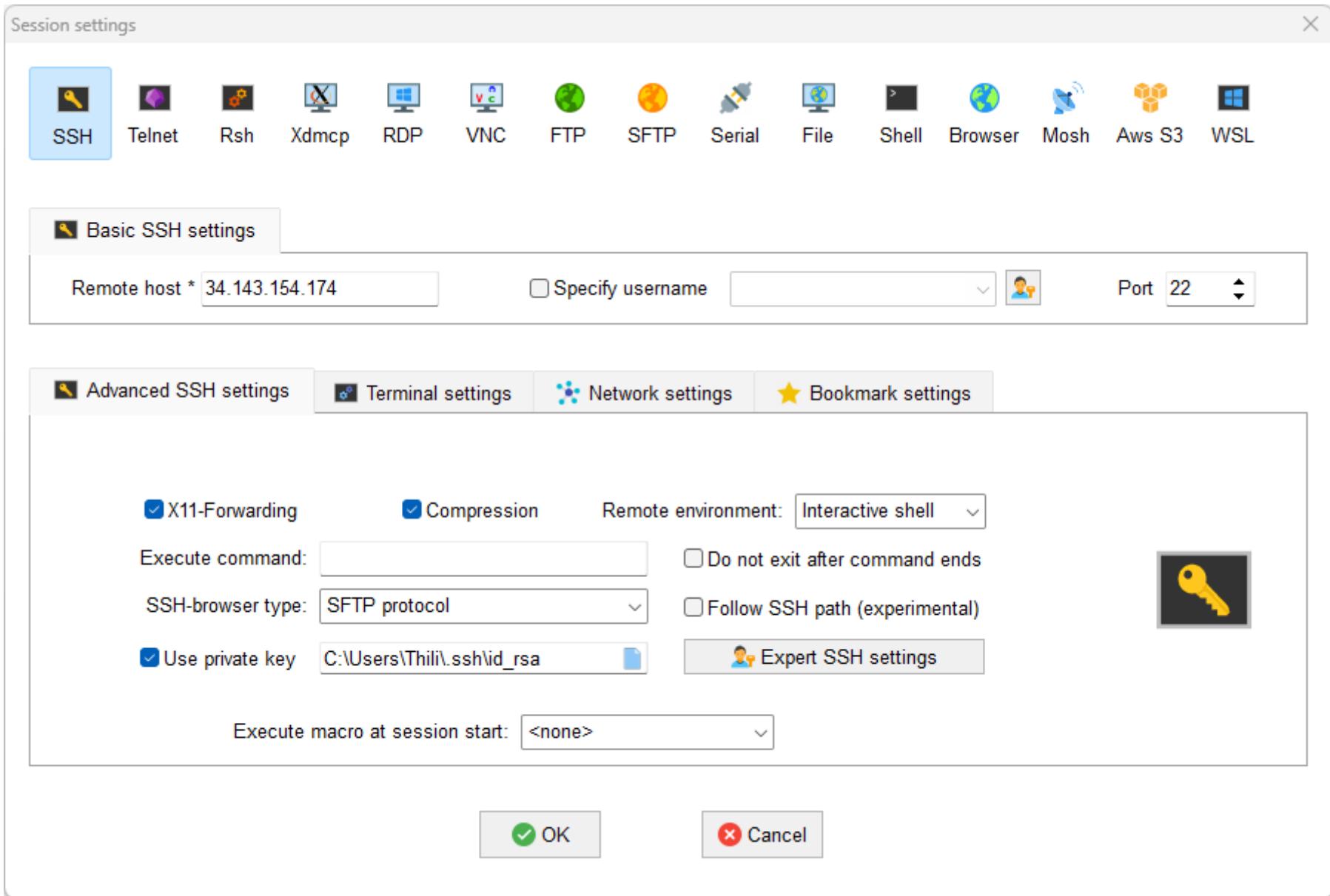


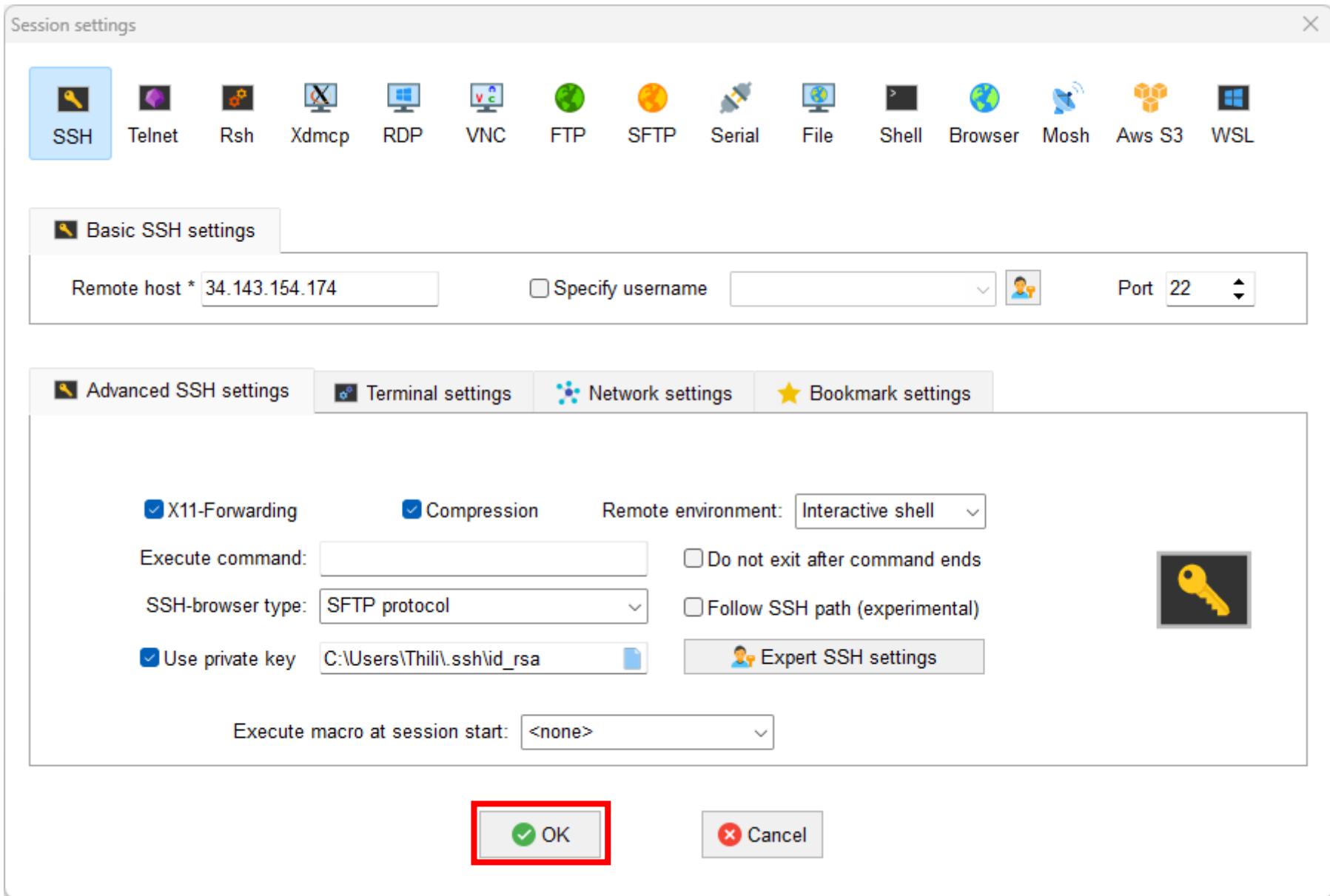
OK

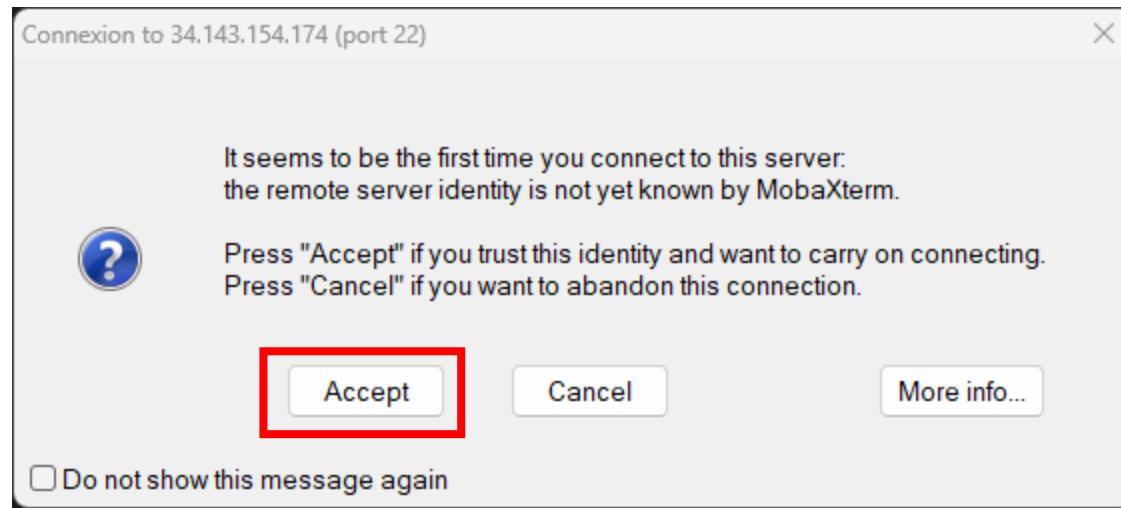
Cancel

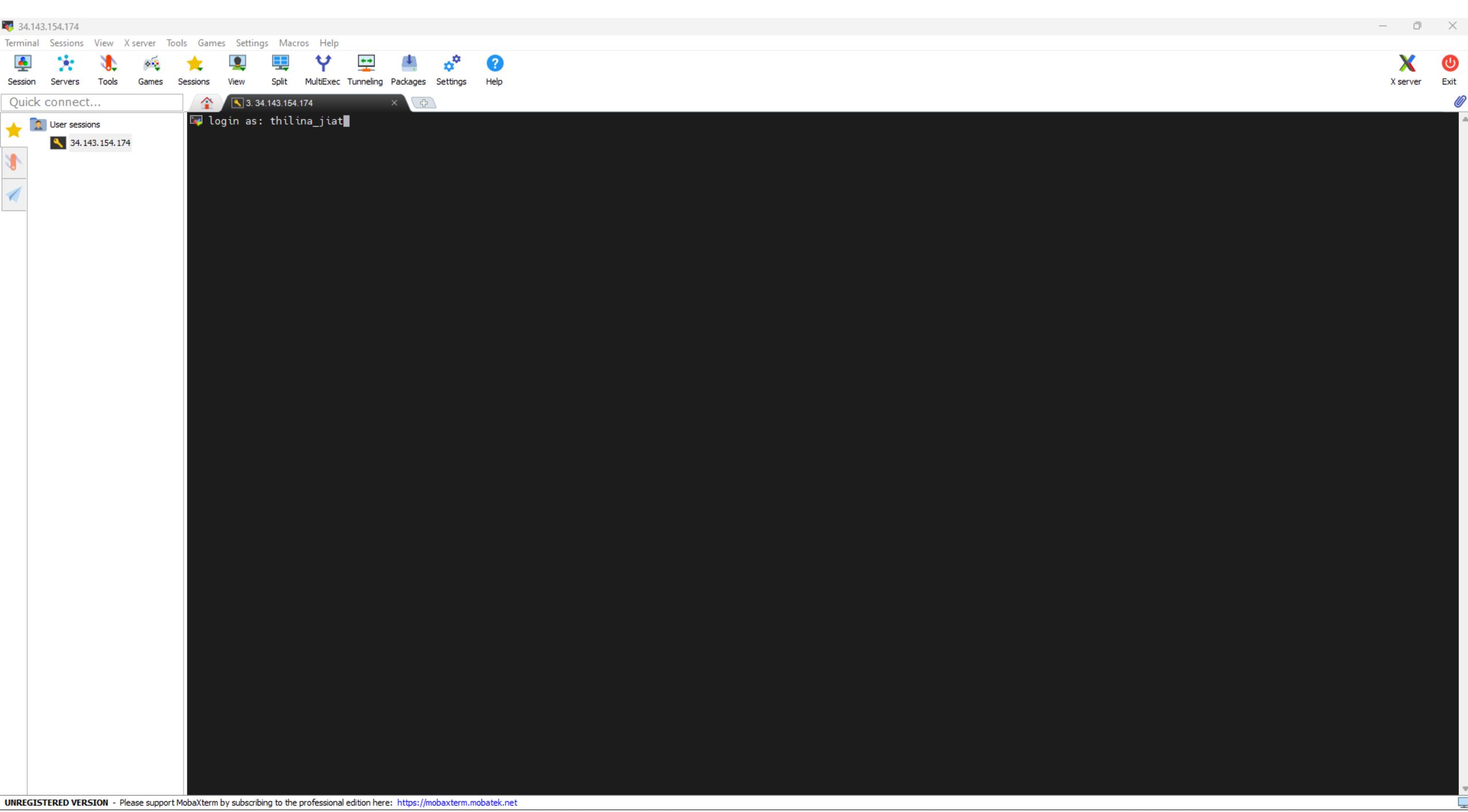














Quick connect...

34.143.154.174

+/-

• MobaXterm Personal Edition v23.6 •  
(SSH client, X server and network tools)

- ▶ SSH session to Thili@34.143.154.174
  - Direct SSH : ✓
  - SSH compression : ✓
  - SSH-browser : ✓
  - X11-forwarding : ✓ (remote display is forwarded through SSH)
- ▶ For more info, ctrl+click on [help](#) or visit our [website](#).

Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1052-gcp x86\_64)

- \* Documentation: <https://help.ubuntu.com>
- \* Management: <https://landscape.canonical.com>
- \* Support: <https://ubuntu.com/pro>

System information as of Wed Feb 28 19:37:38 UTC 2024

System load: 0.0 Processes: 115  
Usage of /: 4.3% of 48.27GB Users logged in: 1  
Memory usage: 7% IPv4 address for ens4: 10.148.0.3  
Swap usage: 0%

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.

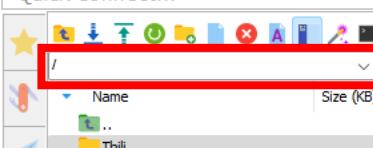
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.

/usr/bin/xauth: file /home/Thili/.Xauthority does not exist  
Thili@first-vps:~\$ █

 Remote monitoring Follow terminal folder

Quick connect...

3. 34.143.154.174



• MobaXterm Personal Edition v23.6 •  
(SSH client, X server and network tools)

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Remote monitoring

 Follow terminal folder



Quick connect...

3. 34.143.154.174

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```
/usr/bin/xauth: file /home/Thili/.Xauthority does not exist
Thili@first-vps:~$
```

var

bin  
lib  
lib32  
lib64  
libx32  
sbin

Remote monitoring

 Follow terminal folder



Session



Servers



Tools



Games



Sessions



View



Split



MultiExec



Tunneling



Packages



Settings



Help

Quick connect...



3. 34.143.154.174



/var/

Name

Size (KB)

- ..
- backups
- cache
- crash
- lib
- local
- log
- mail
- opt
- snap
- spool
- tmp
- www**
- lock
- run

• MobaXterm Personal Edition v23.6 •  
(SSH client, X server and network tools)

- ▶ SSH session to Thili@34.143.154.174
  - Direct SSH : ✓
  - SSH compression : ✓
  - SSH-browser : ✓
  - X11-forwarding : ✓ (remote display is forwarded)
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Session



Servers



Tools



Games



Sessions



View



Split



MultiExec



Tunneling



Packages



Settings

Quick connect...



3. 34.143.154.174



/var/www/

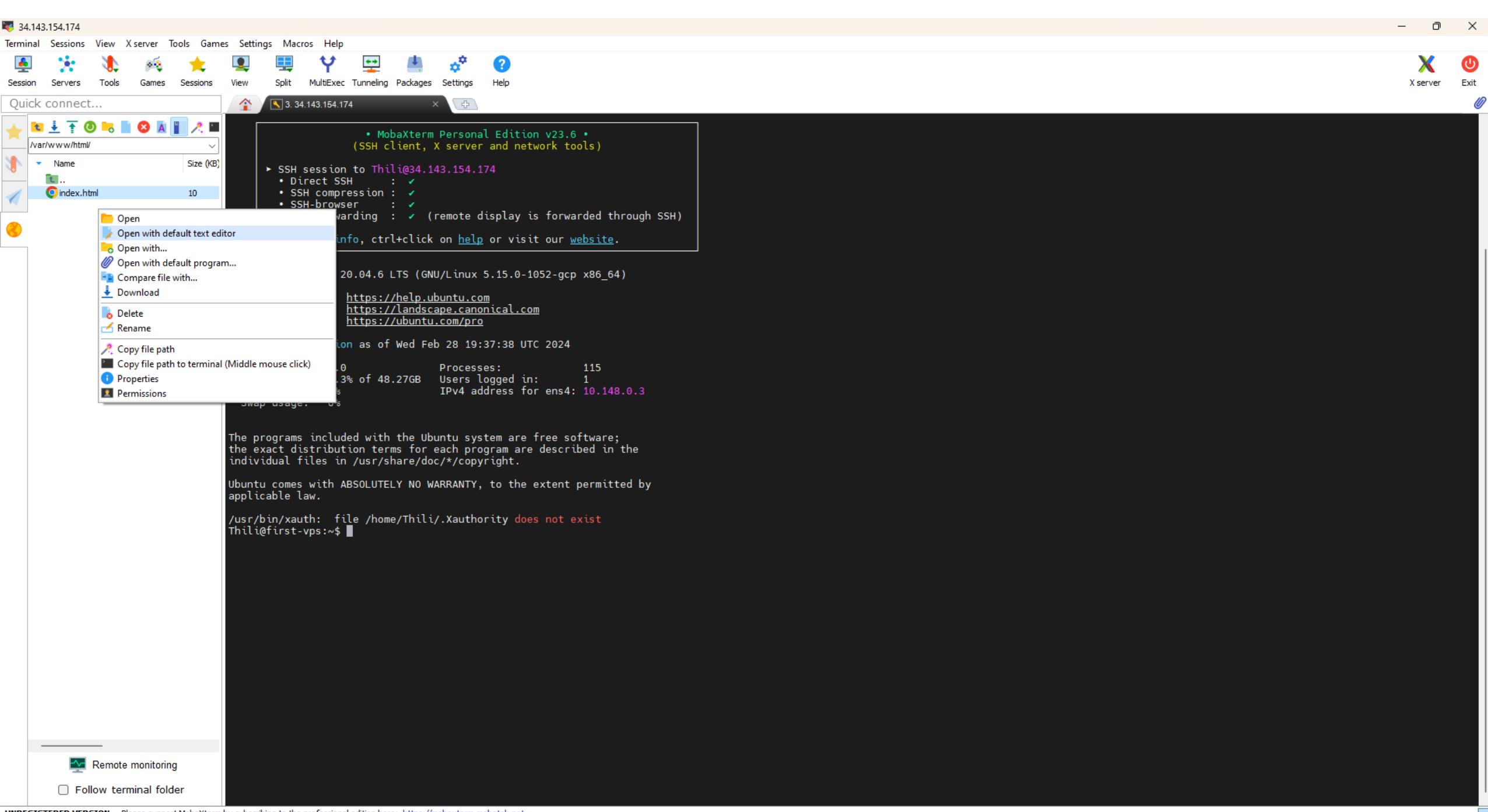
Name

Size (KB)



- MobaXterm Person  
(SSH client, X server)
- ▶ SSH session to Thili@34.143.154.
  - Direct SSH : ✓
  - SSH compression : ✓
  - SSH-browser : ✓
  - X11-forwarding : ✓ (remote)
- ▶ For more info, ctrl+click on [help](#)

Welcome to Ubuntu 20.04.6 LTS (GNU/Linux



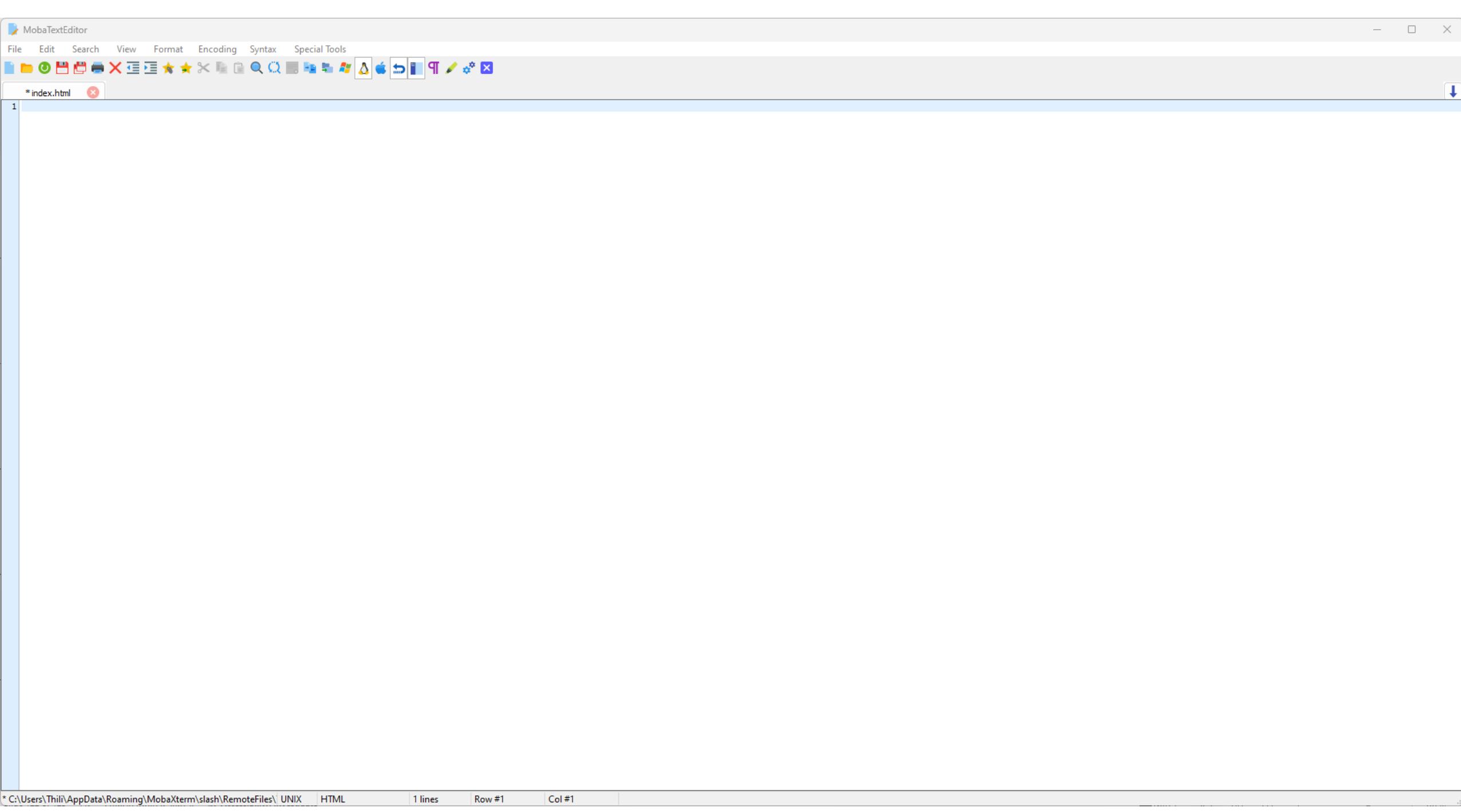


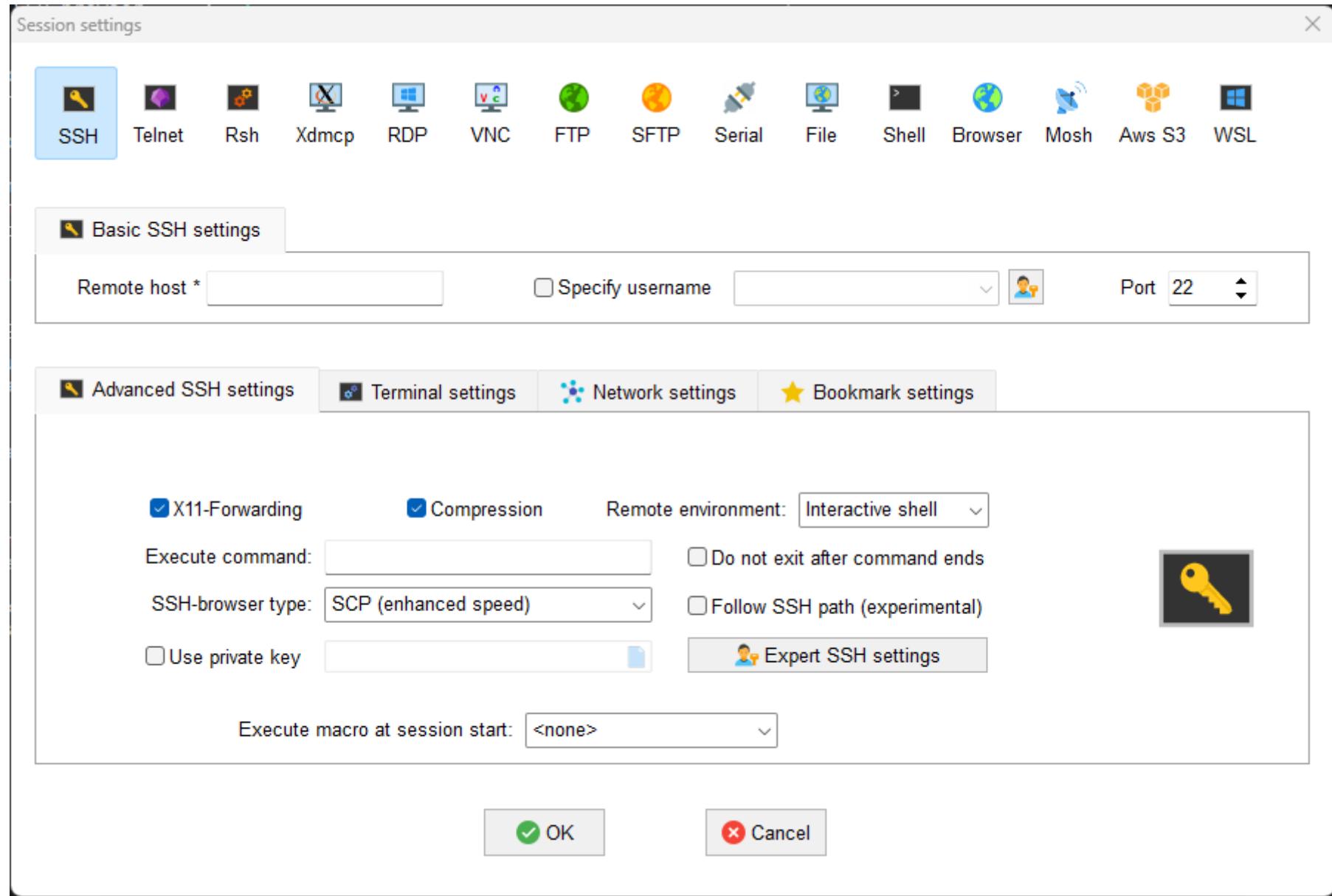
```
index.html X  
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">  
2 <html xmlns="http://www.w3.org/1999/xhtml">  
3     <!--  
4         Modified from the Debian original for Ubuntu  
5         Last updated: 2016-11-16  
6         See: https://launchpad.net/bugs/1288690  
7 -->  
8     <head>  
9         <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />  
10        <title>Apache2 Ubuntu Default Page: It works</title>  
11        <style type="text/css" media="screen">  
12            * {  
13                margin: 0px 0px 0px 0px;  
14                padding: 0px 0px 0px 0px;  
15            }  
16  
17            body, html {  
18                padding: 3px 3px 3px 3px;  
19            }  
20  
21            background-color: #D8DBE2;  
22  
23            font-family: Verdana, sans-serif;  
24            font-size: 11pt;  
25            text-align: center;  
26        }  
27  
28        div.main_page {  
29            position: relative;  
30            display: table;  
31            width: 800px;  
32  
33            margin-bottom: 3px;  
34            margin-left: auto;  
35            margin-right: auto;  
36            padding: 0px 0px 0px 0px;  
37  
38            border-width: 2px;  
39            border-color: #212738;  
40            border-style: solid;  
41  
42            background-color: #FFFFFF;  
43  
44            text-align: center;  
45        }  
46  
47        div.page_header {  
48            height: 99px;  
49            width: 100%;  
50  
51            background-color: #F5F6F7;  
52        }  
53  
54        div.page_header span {  
55            margin: 15px 0px 0px 50px;  
56  
57            font-size: 180%;  
58            font-weight: bold;  
59        }  
60    
```

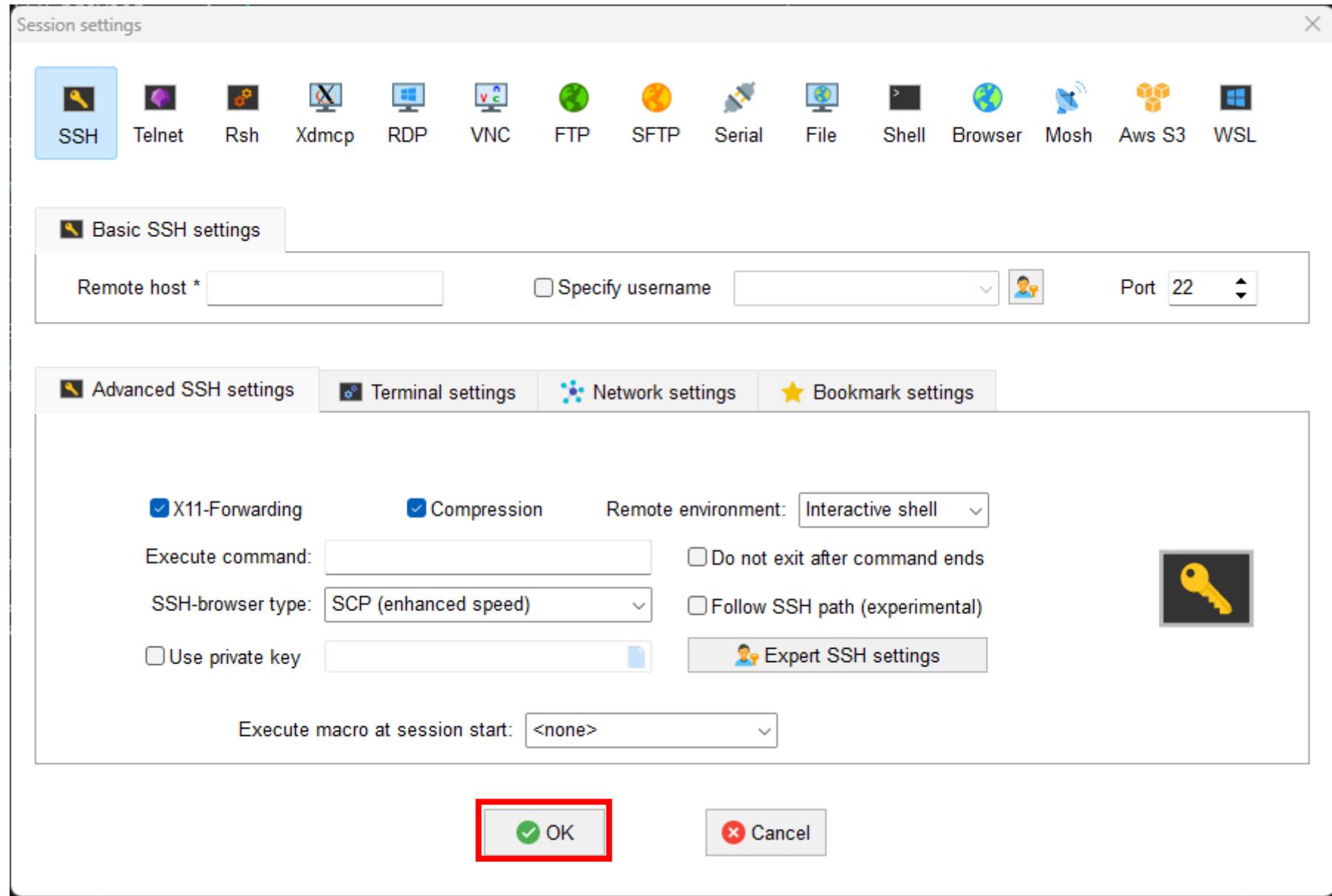


```
index.html x

318          The binary is called apache2. Due to the use of
319          environment variables, in the default configuration, apache2 needs to be
320          started/stopped with <tt>/etc/init.d/apache2</tt> or <tt>apache2ctl</tt>.
321          <b>Calling <tt>/usr/bin/apache2</tt> directly will not work</b> with the
322          default configuration.
323      </li>
324  </ul>
325 </div>
326
327 <div class="section_header">
328   <div id="docroot"></div>
329   Document Roots
330 </div>
331
332 <div class="content_section_text">
333   <p>
334     By default, Ubuntu does not allow access through the web browser to
335     <em>any</em> file apart of those located in <tt>/var/www</tt>,
336     <a href="http://httpd.apache.org/docs/2.4/mod/mod_userdir.html" rel="nofollow">public_html</a>
337     directories (when enabled) and <tt>/usr/share</tt> (for web
338     applications). If your site is using a web document root
339     located elsewhere (such as in <tt>/srv</tt>) you may need to whitelist your
340     document root directory in <tt>/etc/apache2/apache2.conf</tt>.
341   </p>
342   <p>
343     The default Ubuntu document root is <tt>/var/www/html</tt>. You
344     can make your own virtual hosts under /var/www. This is different
345     to previous releases which provides better security out of the box.
346   </p>
347 </div>
348
349 <div class="section_header">
350   <div id="bugs"></div>
351   Reporting Problems
352 </div>
353 <div class="content_section_text">
354   <p>
355     Please use the <tt>ubuntu-bug</tt> tool to report bugs in the
356     Apache2 package with Ubuntu. However, check <a
357     href="https://bugs.launchpad.net/ubuntu/+source/apache2"
358     rel="nofollow">existing bug reports</a> before reporting a new bug.
359   </p>
360   <p>
361     Please report bugs specific to modules (such as PHP and others)
362     to respective packages, not to the web server itself.
363   </p>
364 </div>
365
366
367
368
369   </div>
370 </div>
371 <div class="validator">
372 </div>
373 </body>
374 </html>
375
376
```







**Connect to the server again.**

VM instances – Compute Engine x 34.143.154.174 x | +

console.cloud.google.com/compute/instances?hl=en&project=custom-oasis-412916

Use full Links SAD Viva EMP Viva Web Viva Java Institute System Daily Required Tab Daly Tab YouTube

Google Cloud Test Search (/) for resources, docs, products, and more Search

Compute Engine VM instances CREATE INSTANCE IMPORT VM REFRESH LEARN

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

INSTANCES OBSERVABILITY INSTANCE SCHEDULES

X 1 instance selected ► START / RESUME STOP SUSPEND RESET DELETE LABELS PERMISSIONS

Filter Enter property name or value

Status	Name	Zone	Recommendations	In use by	Internal IP	External IP	Connect
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> first-vps	asia-southeast1-b			10.148.0.3 (nic0)	34.143.154.174 (nic0)	SSH

Related actions

Explore Backup and DR NEW View billing report Monitor VMs Explore VM logs Set up firewall rules

View and manage your Compute Engine billing

View outlier VMs across metrics like CPU and network

View, search, analyze, and download VM instance logs

Schedule patch updates and view patch compliance on VM instances

Set up Load Balancing for your applications as your traffic and users grow

Stopping first-vps...

The screenshot shows the Google Cloud Compute Engine interface for managing VM instances. On the left, there's a sidebar with various navigation options under 'Compute Engine'. The main area is titled 'VM instances' and shows one instance named 'first-vps' selected. A toolbar above the instance list includes buttons for 'CREATE INSTANCE', 'IMPORT VM', 'REFRESH', and several other actions like 'STOP', 'SUSPEND', 'RESET', 'DELETE', 'LABELS', and 'PERMISSIONS'. The 'STOP' button is specifically highlighted with a red box. Below the toolbar, there are tabs for 'INSTANCES', 'OBSERVABILITY', and 'INSTANCE SCHEDULES'. The 'INSTANCES' tab is active. The instance details table shows the instance name, status, zone, and network information. Under the 'Related actions' section, there are links to 'Explore Backup and DR', 'View billing report', 'Monitor VMs', 'Explore VM logs', 'Patch management', and 'Load balance between VMs'. At the bottom, a progress bar indicates the action 'Stopping first-vps...' is in progress.