Cloud Project Report on AWS OpenVPN Access Server

Title: PRIVACY SHEILD: A USER FRIENDLY VPN CLIENT

Submitted by:

D. Sujith kumar

AP22110011092

Abstract

This project focuses on deploying a secure VPN (Virtual Private Network) using OpenVPN Access Server hosted on Amazon Web Services (AWS) EC2. By Using cloud infrastructure, the project enables encrypted, private internet access for remote users. The VPN server setup is cost-effective, scalable, and uses AWS Free Tier eligibility. The OpenVPN Admin and Client interfaces provide easy management and access for VPN users.

Introduction

Internet privacy and security now require Virtual Private Networks to become essential components for both people and businesses. The project implements AWS EC2 capabilities to operate an OpenVPN Access Server which creates a protected connection between users and their internet access through a single server point. Remote management becomes possible by using this setup to watch clients and their usage as well as manage their access.

Tools and Technologies Used

- **Amazon Web Services (AWS)**
    - EC2 (Elastic Compute Cloud)
    - Key Pairs
    - Security Groups
- **OpenVPN Access Server (Self-Hosted AMI)**
- **Operating System:** OpenVPN Access Server Image
- **Protocol:** TCP (Port 443), Admin UI (Port 943)
- **Key Pair:** vpn-key (PEM format)

Implementation Steps

1. EC2 Instance Launch

- Chose **OpenVPN Access Server** from AWS Marketplace.
- Selected **t2.micro** instance (Free Tier eligible).
- Used **default Security Group** settings.
- Created a new key pair named vpn-key.

2. Connecting to Instance

- Connected using **EC2 Instance Connect**.
- On first login, a configuration wizard was launched in the terminal.

3. Initial Configuration via Wizard

- **License Agreement:** Accepted terms and conditions select yes .
- **Primary Access Server:** Selected *Yes*.
- **Network Interface:** Chose *0.0.0.0* (all interfaces).
- **CA Configuration:** Used default (secp384r1).
- **Web Certificate:** Used default (secp384r1).
- **Admin Web UI Port:** Left default (943).
- **OpenVPN TCP Port:** Left default (443).
- **DNS Routing:** Enabled routing of all client DNS traffic.

- **Subnet Access:** Enabled access to AWS subnet.
- **Admin Login User:** Chose *openvpn* as admin user name (by default).
- **Password:** Used random password generate (can be changed in Admin UI).
- **Activation Key:** Skipped; to be done later via Admin UI.

4. Admin and Client Web Interfaces Generated

- Two URLs provided:
    - **Admin UI:** https://<public-ip>:943/admin
    - **Client UI:** https://<public-ip>:943

Admin UI Features

- Login with the openvpn admin user.
- **Dashboard Options:**
    - View connected clients.
    - Monitor data usage per user.
    - Block or disconnect users.
    - Change user credentials.
    - Configure connection settings: TCP/UDP, ports, routing.

Client UI Features

- Users can:
    - Download the OpenVPN Connect app.
    - Login using provided credentials.
    - Download .ovpn configuration files.
    - Establish a secure VPN connection to the server.

Testing the VPN

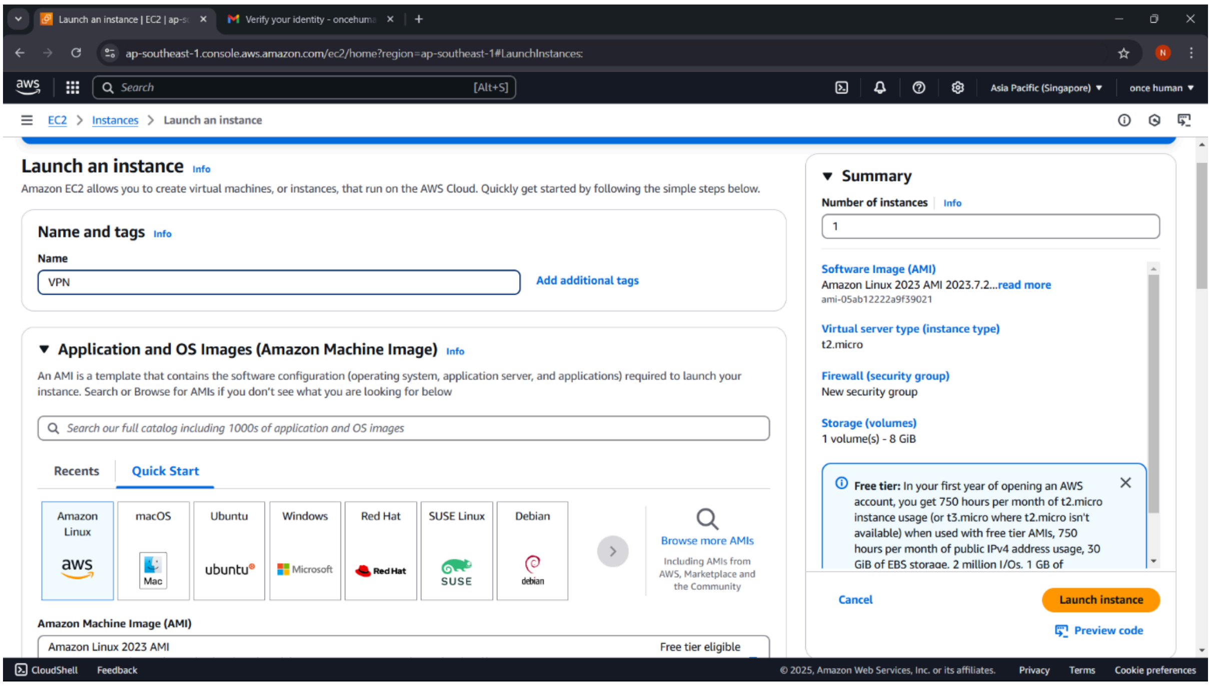
- After user login, client IP changes to the **AWS region's IP** where the EC2 is hosted.

- Verified data encryption by observing secure connection through OpenVPN client.
- Internet browsing was routed through the VPN server.

Conclusion

The implementation of OpenVPN Access Server on AWS EC2 serves as an active solution for secure hosted VPN deployment in cloud environments. OpenVPN Access Server provides users with privacy together with encrypted communications and controlled access at no additional cost when utilizing Free Tier resources. The project illustrates how cloud computing technologies provide dependable security structures through simple implementation.

Screenshots


Launch an instance | EC2 | ap-s
Verify your identity - oncehuma
ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LaunchInstances:
Search
[Alt+S]
Asia Pacific (Singapore)
once human
EC2
Instances
Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name: VPN

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI): Amazon Linux 2023 AMI — Free tier eligible

Summary

Number of instances Info: 1

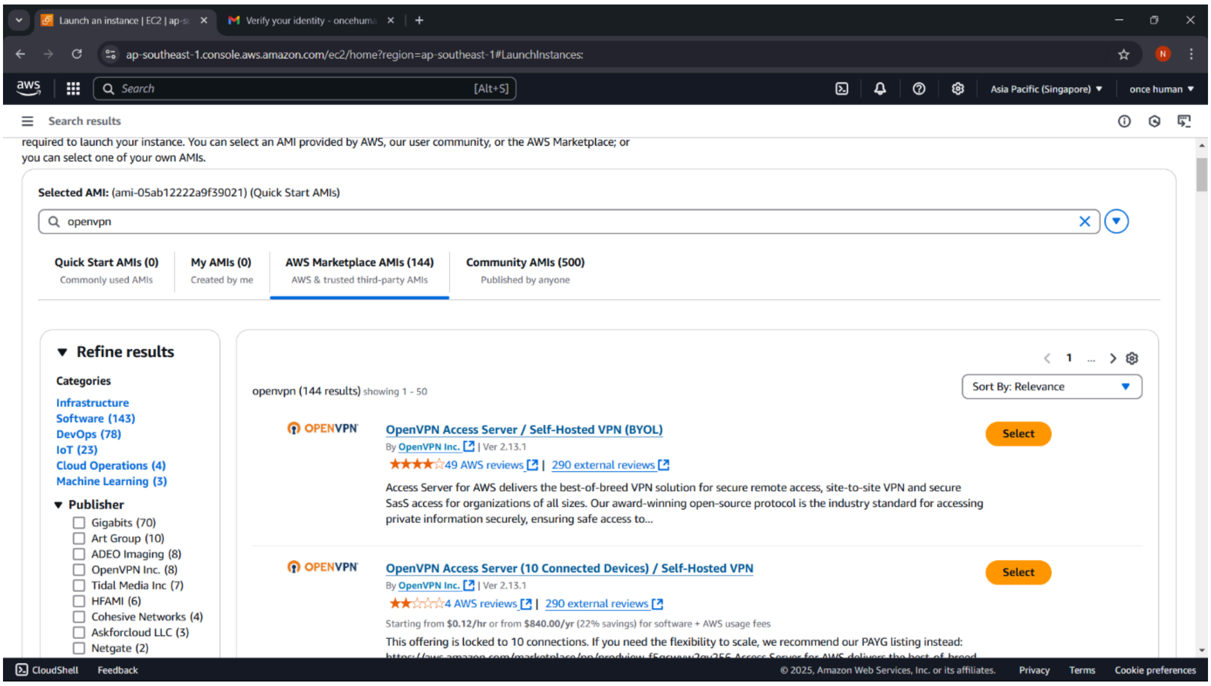
Software Image (AMI): Amazon Linux 2023 AMI 2023.7.2...read more
ami-05ab12222a9f39021

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of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ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LaunchInstances:
aws
Search
[Alt+S]
Asia Pacific (Singapore) ▼
once human ▼
Search results

required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Selected AMI: (ami-05ab12222a9f39021) (Quick Start AMIs)

openvpn

Quick Start AMIs (0)
Commonly used AMIs
My AMIs (0)
Created by me
AWS Marketplace AMIs (144)
AWS & trusted third-party AMIs
Community AMIs (500)
Published by anyone

Refine results

Categories

- Infrastructure
- Software (143)
- DevOps (78)
- IoT (23)
- Cloud Operations (4)
- Machine Learning (3)

Publisher

- □ Gigabits (70)
- □ Art Group (10)
- □ ADEO Imaging (8)
- □ OpenVPN Inc. (8)
- □ Tidal Media Inc (7)
- □ HFAMI (6)
- □ Cohesive Networks (4)
- □ Askforcloud LLC (3)
- □ Netgate (2)

openvpn (144 results) showing 1 - 50

Sort By: Relevance

OpenVPN Access Server / Self-Hosted VPN (BYOL)
By OpenVPN Inc. | Ver 2.13.1
★★★★☆49 AWS reviews | 290 external reviews
Access Server for AWS delivers the best-of-breed VPN solution for secure remote access, site-to-site VPN and secure SasS access for organizations of all sizes. Our award-winning open-source protocol is the industry standard for accessing private information securely, ensuring safe access to...

Select

OpenVPN Access Server (10 Connected Devices) / Self-Hosted VPN
By OpenVPN Inc. | Ver 2.13.1
★★☆☆☆4 AWS reviews | 290 external reviews
Starting from **$0.12/hr** or from **$840.00/yr** (22% savings) for software + AWS usage fees
This offering is locked to 10 connections. If you need the flexibility to scale, we recommend our PAYG listing instead:

Select

CloudShell
Feedback
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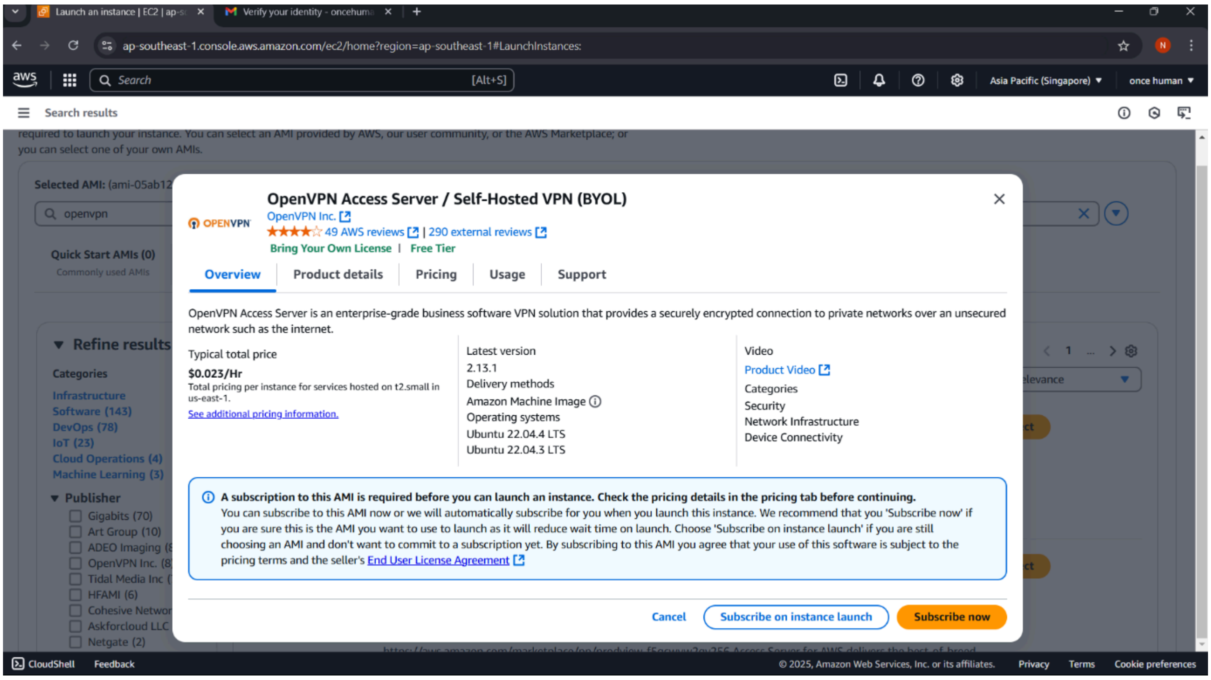
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Search results

OpenVPN Access Server / Self-Hosted VPN (BYOL)

OpenVPN Inc.
★★★★☆ 49 AWS reviews | 290 external reviews
Bring Your Own License | Free Tier

Overview
Product details
Pricing
Usage
Support

OpenVPN Access Server is an enterprise-grade business software VPN solution that provides a securely encrypted connection to private networks over an unsecured network such as the internet.

Typical total price
$0.023/Hr
Total pricing per instance for services hosted on t2.small in us-east-1.
See additional pricing information.

Latest version
2.13.1
Delivery methods
Amazon Machine Image
Operating systems
Ubuntu 22.04.4 LTS
Ubuntu 22.04.3 LTS

Video
Product Video
Categories
Security
Network Infrastructure
Device Connectivity

A subscription to this AMI is required before you can launch an instance. Check the pricing details in the pricing tab before continuing.
You can subscribe to this AMI now or we will automatically subscribe for you when you launch this instance. We recommend that you 'Subscribe now' if you are sure this is the AMI you want to use to launch as it will reduce wait time on launch. Choose 'Subscribe on instance launch' if you are still choosing an AMI and don't want to commit to a subscription yet. By subscribing to this AMI you agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement

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Subscribe now
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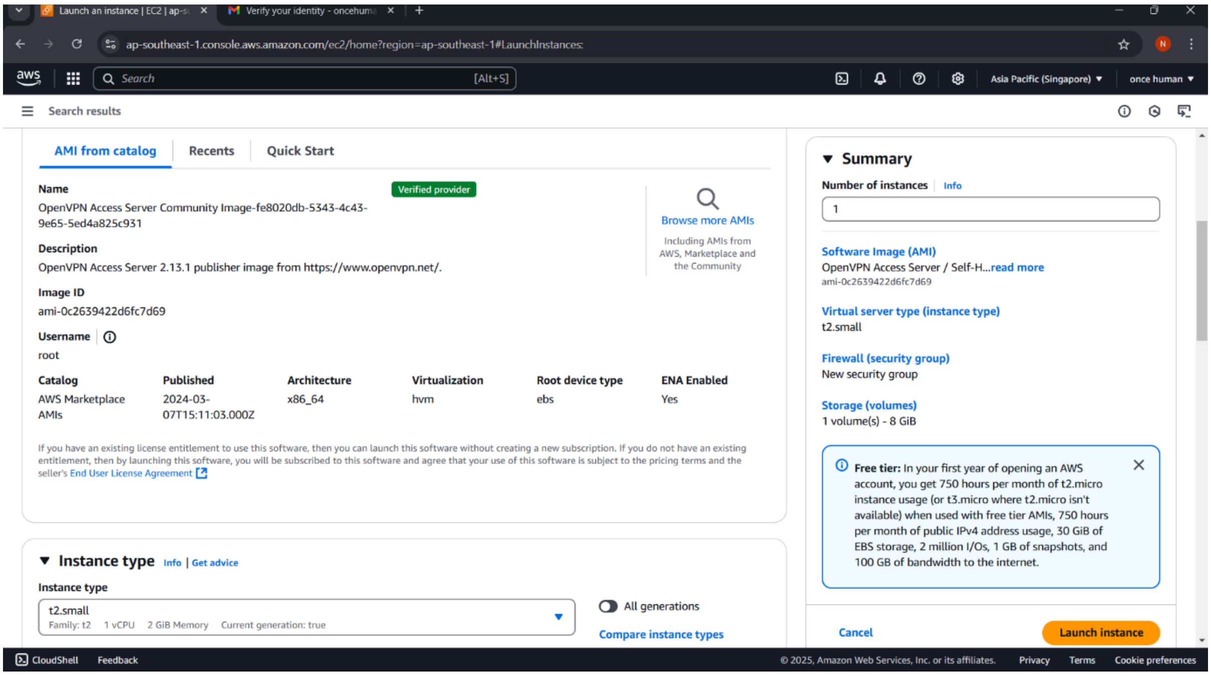
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Verify your identity - oncehum
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aws
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Asia Pacific (Singapore) ▼
once human ▼
Search results
AMI from catalog
Recents
Quick Start
Verified provider
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
CloudShell
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Name

OpenVPN Access Server Community Image-fe8020db-5343-4c43-9e65-5ed4a825c931

Description

OpenVPN Access Server 2.13.1 publisher image from https://www.openvpn.net/.

Image ID

ami-0c2639422d6fc7d69

Username

root

Catalog	Published	Architecture	Virtualization	Root device type	ENA Enabled
AWS Marketplace AMIs	2024-03-07T15:11:03.000Z	x86_64	hvm	ebs	Yes

If you have an existing license entitlement to use this software, then you can launch this software without creating a new subscription. If you do not have an existing entitlement, then by launching this software, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement

▼ **Instance type** Info | Get advice

Instance type

t2.small
Family: t2 1 vCPU 2 GiB Memory Current generation: true

All generations

Compare instance types

▼ **Summary**

Number of instances Info

1

Software Image (AMI)
OpenVPN Access Server / Self-H...read more
ami-0c2639422d6fc7d69

Virtual server type (instance type)
t2.small

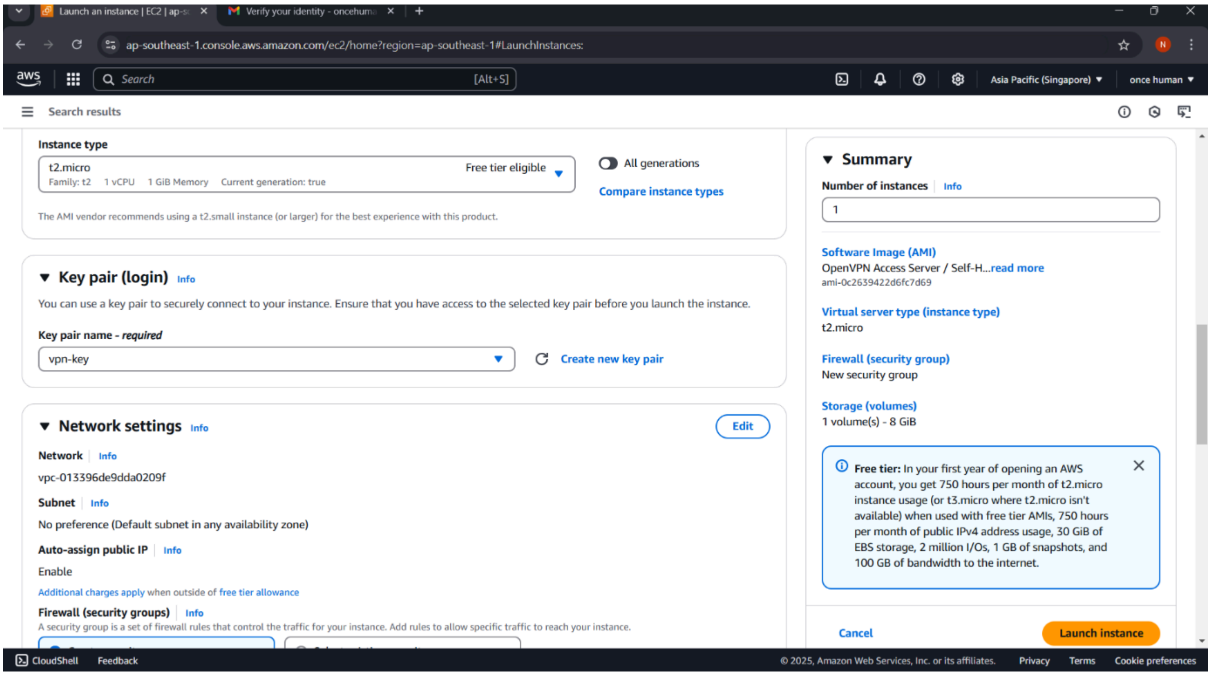
Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance


Launch an instance | EC2 | ap-s
Verify your identity - oncehum
ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LaunchInstances:
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Instance type

t2.micro Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true

All generations

Compare instance types

The AMI vendor recommends using a t2.small instance (or larger) for the best experience with this product.

▼ **Key pair (login)** Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

vpn-key

Create new key pair

▼ **Network settings** Info

Edit

Network Info

vpc-013396de9dda0209f

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

▼ **Summary**

Number of instances Info

1

Software Image (AMI)
OpenVPN Access Server / Self-H...read more
ami-0c2639422d6fc7d69

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

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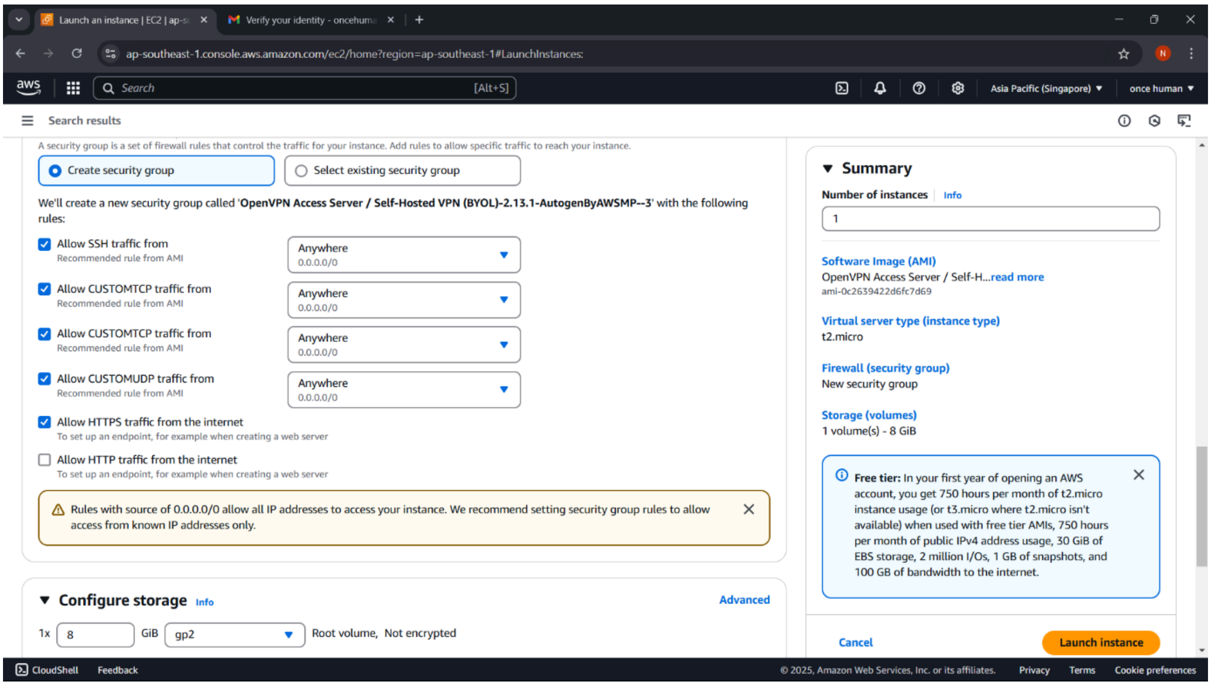
Cancel

Launch instance


Launch an instance | EC2 | ap-s
Verify your identity - oncehum
ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LaunchInstances:
aws
Search
[Alt+S]
Asia Pacific (Singapore) ▾
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Search results

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

● Create security group ○ Select existing security group

We'll create a new security group called '**OpenVPN Access Server / Self-Hosted VPN (BYOL)-2.13.1-AutogenByAWSMP--3**' with the following rules:

☑ Allow SSH traffic from
Recommended rule from AMI
Anywhere 0.0.0.0/0

☑ Allow CUSTOMTCP traffic from
Recommended rule from AMI
Anywhere 0.0.0.0/0

☑ Allow CUSTOMTCP traffic from
Recommended rule from AMI
Anywhere 0.0.0.0/0

☑ Allow CUSTOMUDP traffic from
Recommended rule from AMI
Anywhere 0.0.0.0/0

☑ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

▼ Configure storage Info Advanced

1x 8 GiB gp2 Root volume, Not encrypted

▼ Summary

Number of instances Info
1

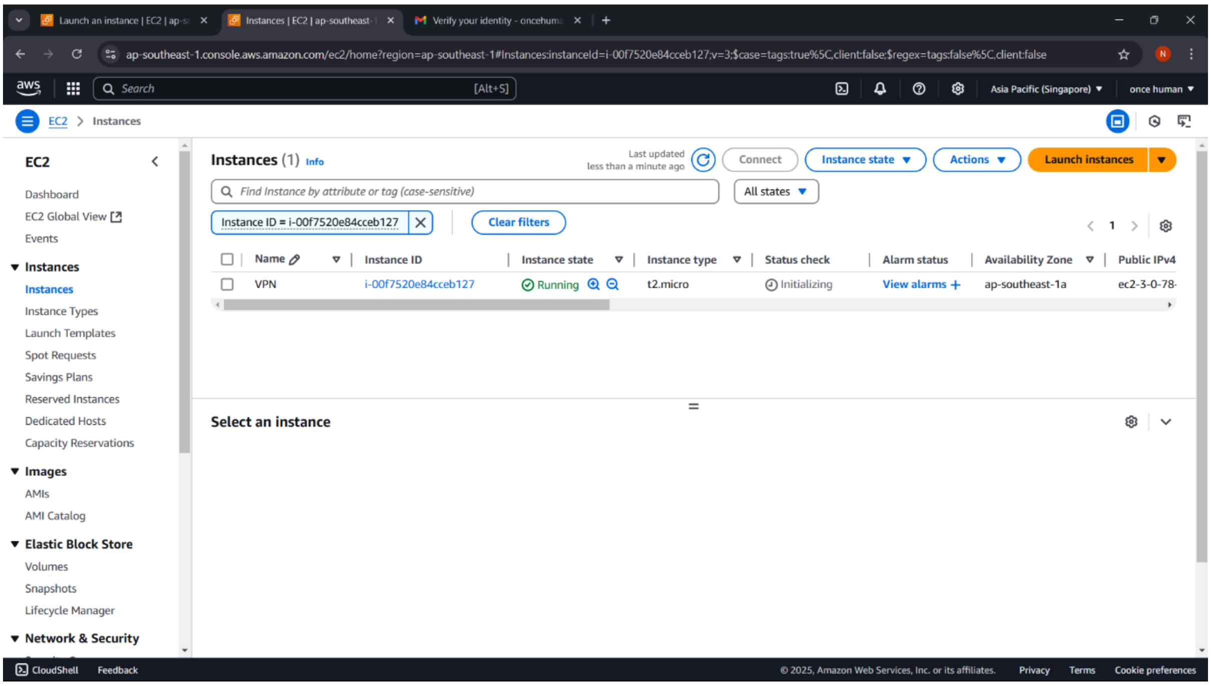
Software Image (AMI)
OpenVPN Access Server / Self-H...read more
ami-0c2639422d6fc7d69

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

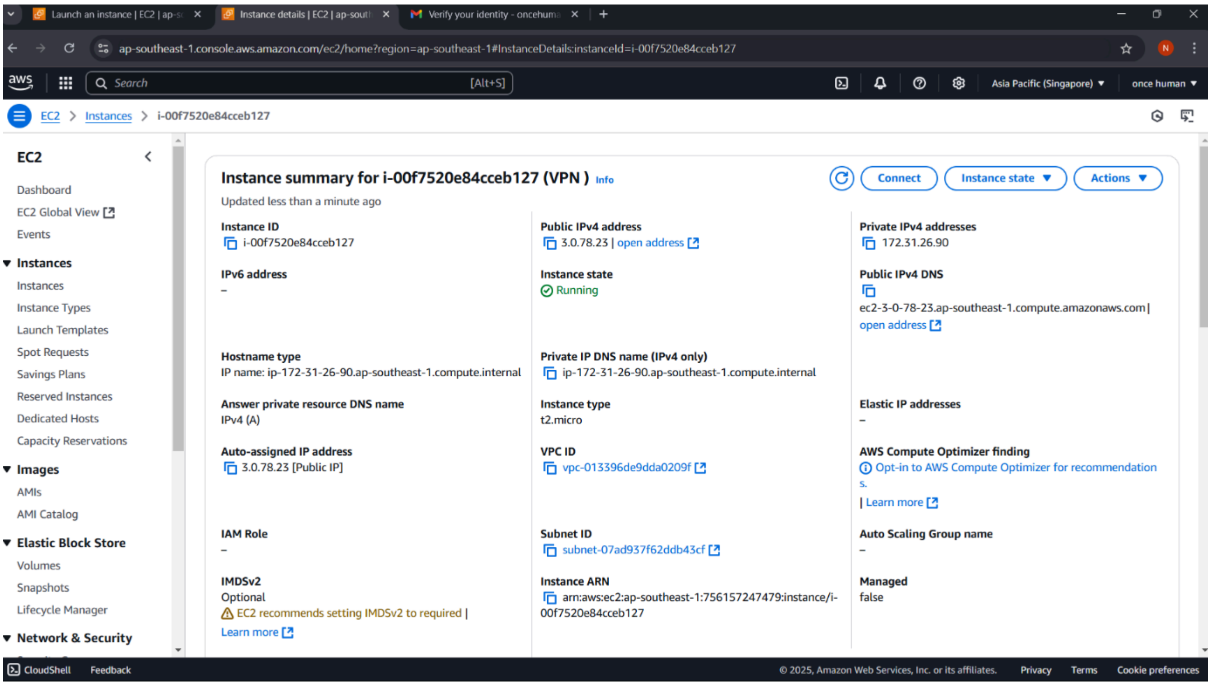


Instances (1) Info
Last updated less than a minute ago

Instance ID = i-00f7520e84cceb127 ✕ Clear filters

☐	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
☐	VPN	i-00f7520e84cceb127	✓ Running	t2.micro	Initializing	View alarms +	ap-southeast-1a	ec2-3-0-78-

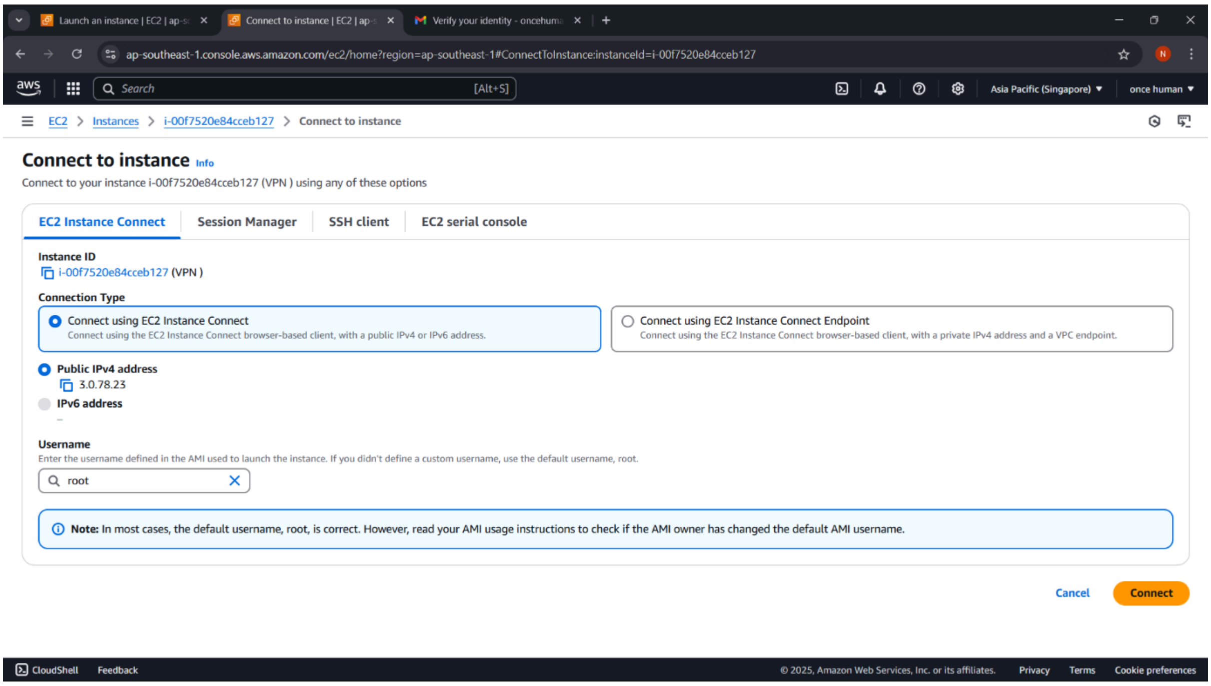
Select an instance



Instance summary for i-00f7520e84cceb127 (VPN) Info

Updated less than a minute ago

Instance ID i-00f7520e84cceb127	**Public IPv4 address** 3.0.78.23 | open address	**Private IPv4 addresses** 172.31.26.90
IPv6 address –	**Instance state** Running	**Public IPv4 DNS** ec2-3-0-78-23.ap-southeast-1.compute.amazonaws.com | open address
Hostname type IP name: ip-172-31-26-90.ap-southeast-1.compute.internal	**Private IP DNS name (IPv4 only)** ip-172-31-26-90.ap-southeast-1.compute.internal	
Answer private resource DNS name IPv4 (A)	**Instance type** t2.micro	**Elastic IP addresses** –
Auto-assigned IP address 3.0.78.23 [Public IP]	**VPC ID** vpc-013396de9dda0209f	**AWS Compute Optimizer finding** Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role –	**Subnet ID** subnet-07ad937f62ddb43cf	**Auto Scaling Group name** –
IMDSv2 Optional EC2 recommends setting IMDSv2 to required | Learn more	**Instance ARN** arn:aws:ec2:ap-southeast-1:756157247479:instance/i-00f7520e84cceb127	**Managed** false



Launch an instance | EC2 | ap-s
Connect to instance | EC2 | ap-s
Verify your identity - oncehuma
ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#ConnectToInstance:instanceId=i-00f7520e84cceb127
Search [Alt+S]
Asia Pacific (Singapore)
once human
EC2 > Instances > i-00f7520e84cceb127 > Connect to instance
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Cancel
Connect
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Connect to instance Info

Connect to your instance i-00f7520e84cceb127 (VPN) using any of these options

Instance ID
i-00f7520e84cceb127 (VPN)

Connection Type

● Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

○ Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

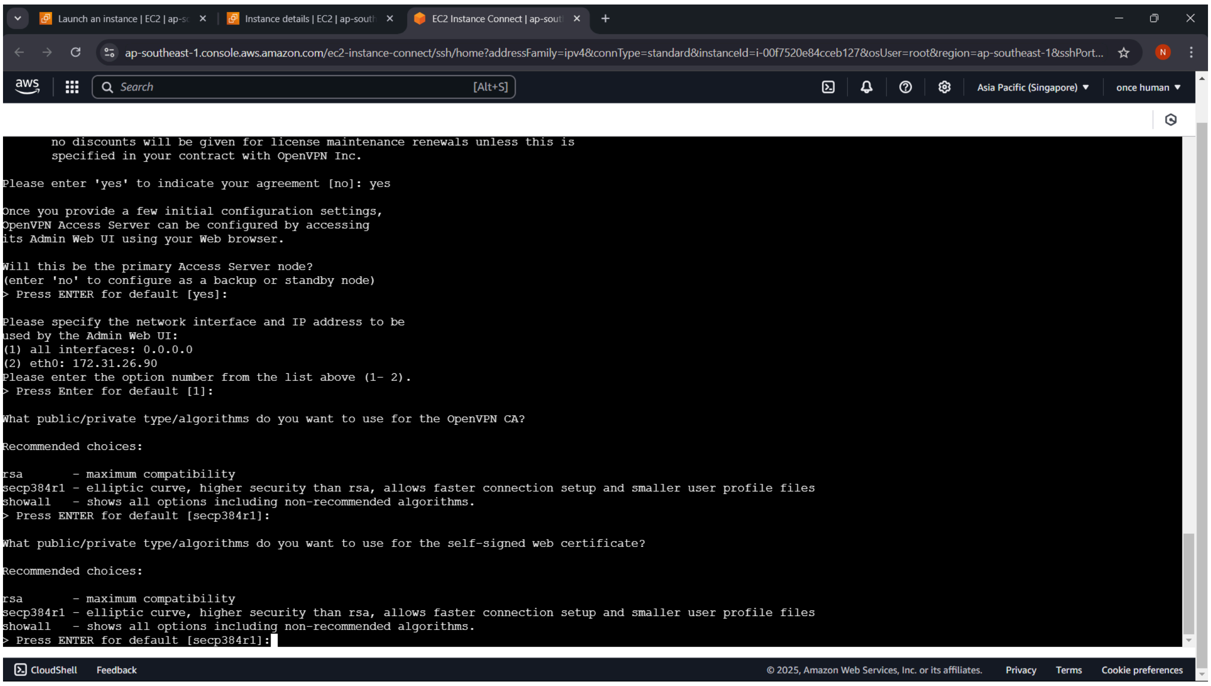
● **Public IPv4 address**
3.0.78.23

○ **IPv6 address**
–

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, root.

root

Note: In most cases, the default username, root, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.


Launch an instance | EC2 | ap-s
Instance details | EC2 | ap-south
EC2 Instance Connect | ap-south
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00f7520e84cceb127&osUser=root&region=ap-southeast-1&sshPort...
aws
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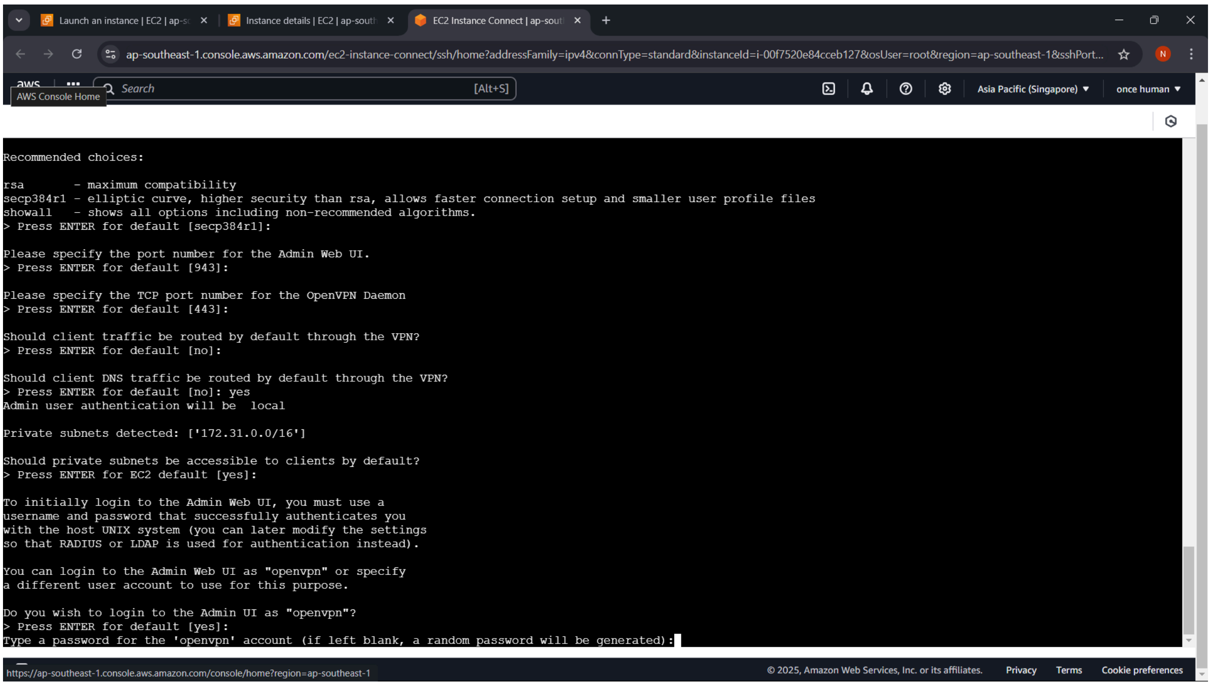
```
       no discounts will be given for license maintenance renewals unless this is
       specified in your contract with OpenVPN Inc.

Please enter 'yes' to indicate your agreement [no]: yes

Once you provide a few initial configuration settings,
OpenVPN Access Server can be configured by accessing
its Admin Web UI using your Web browser.

Will this be the primary Access Server node?
(enter 'no' to configure as a backup or standby node)
> Press ENTER for default [yes]:

Please specify the network interface and IP address to be
used by the Admin Web UI:
(1) all interfaces: 0.0.0.0
(2) eth0: 172.31.26.90
Please enter the option number from the list above (1- 2).
> Press Enter for default [1]:

What public/private type/algorithms do you want to use for the OpenVPN CA?

Recommended choices:

rsa       - maximum compatibility
secp384r1 - elliptic curve, higher security than rsa, allows faster connection setup and smaller user profile files
showall   - shows all options including non-recommended algorithms.
> Press ENTER for default [secp384r1]:

What public/private type/algorithms do you want to use for the self-signed web certificate?

Recommended choices:

rsa       - maximum compatibility
secp384r1 - elliptic curve, higher security than rsa, allows faster connection setup and smaller user profile files
showall   - shows all options including non-recommended algorithms.
> Press ENTER for default [secp384r1]:
```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ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00f7520e84cceb127&osUser=root&region=ap-southeast-1&sshPort...
aws
AWS Console Home
Search
[Alt+S]
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https://ap-southeast-1.console.aws.amazon.com/console/home?region=ap-southeast-1
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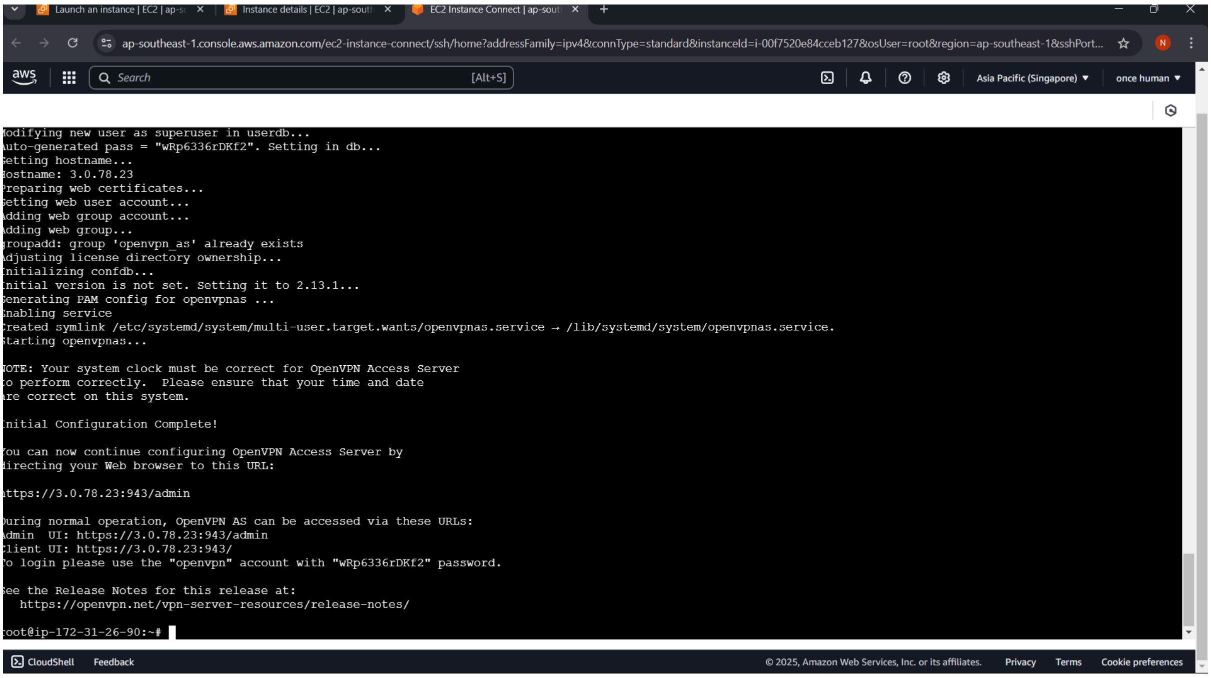
```
Recommended choices:

rsa       - maximum compatibility
secp384r1 - elliptic curve, higher security than rsa, allows faster connection setup and smaller user profile files
showall   - shows all options including non-recommended algorithms.
> Press ENTER for default [secp384r1]:

Please specify the port number for the Admin Web UI.
> Press ENTER for default [943]:

Please specify the TCP port number for the OpenVPN Daemon
> Press ENTER for default [443]:

Should client traffic be routed by default through the VPN?
> Press ENTER for default [no]:

Should client DNS traffic be routed by default through the VPN?
> Press ENTER for default [no]: yes
Admin user authentication will be  local

Private subnets detected: ['172.31.0.0/16']

Should private subnets be accessible to clients by default?
> Press ENTER for EC2 default [yes]:

To initially login to the Admin Web UI, you must use a
username and password that successfully authenticates you
with the host UNIX system (you can later modify the settings
so that RADIUS or LDAP is used for authentication instead).

You can login to the Admin Web UI as "openvpn" or specify
a different user account to use for this purpose.

Do you wish to login to the Admin UI as "openvpn"?
> Press ENTER for default [yes]:
Type a password for the 'openvpn' account (if left blank, a random password will be generated):
```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Instance details | EC2 | ap-south
EC2 Instance Connect | ap-sout
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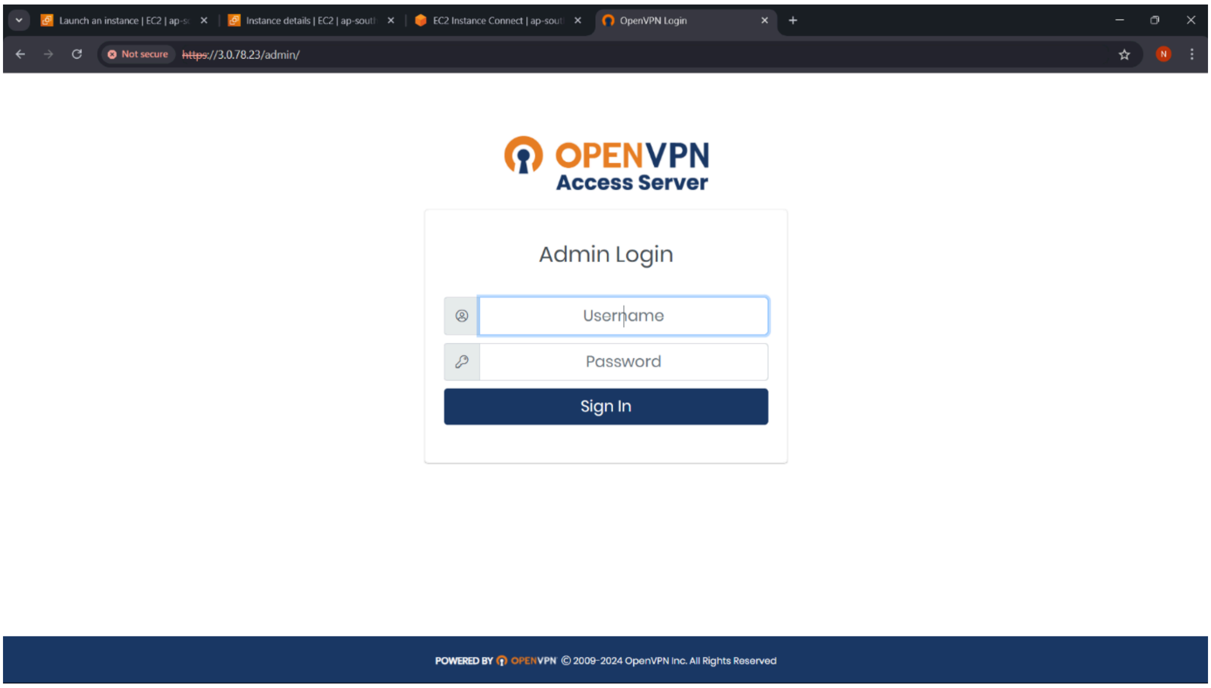
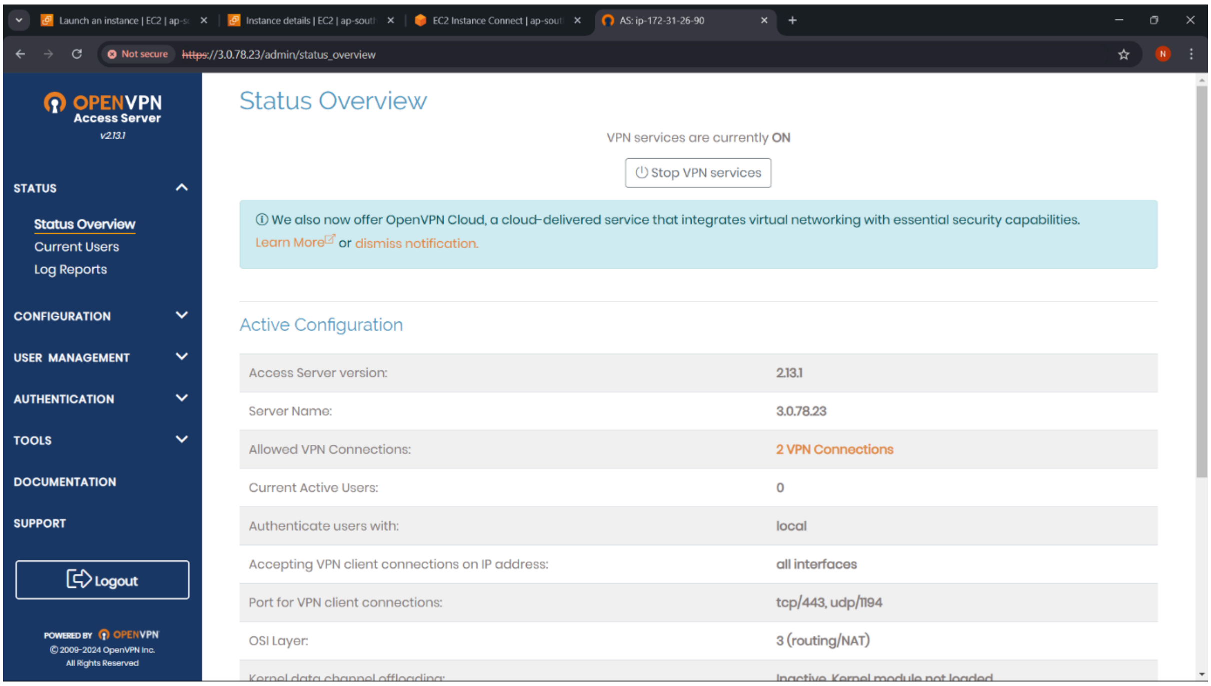
aws
Search
[Alt+S]
Asia Pacific (Singapore) ▾
once human ▾

```
Modifying new user as superuser in userdb...
Auto-generated pass = "wRp6336rDKf2". Setting in db...
Setting hostname...
Hostname: 3.0.78.23
Preparing web certificates...
Getting web user account...
Adding web group account...
Adding web group...
groupadd: group 'openvpn_as' already exists
Adjusting license directory ownership...
Initializing confdb...
Initial version is not set. Setting it to 2.13.1...
Generating PAM config for openvpnas ...
Enabling service
Created symlink /etc/systemd/system/multi-user.target.wants/openvpnas.service → /lib/systemd/system/openvpnas.service.
Starting openvpnas...

NOTE: Your system clock must be correct for OpenVPN Access Server
to perform correctly.  Please ensure that your time and date
are correct on this system.

Initial Configuration Complete!

You can now continue configuring OpenVPN Access Server by
directing your Web browser to this URL:

https://3.0.78.23:943/admin

During normal operation, OpenVPN AS can be accessed via these URLs:
Admin  UI: https://3.0.78.23:943/admin
Client UI: https://3.0.78.23:943/
To login please use the "openvpn" account with "wRp6336rDKf2" password.

See the Release Notes for this release at:
  https://openvpn.net/vpn-server-resources/release-notes/

root@ip-172-31-26-90:~#
```

CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Launch an instance | EC2 | ap-s
Instance details | EC2 | ap-south
EC2 Instance Connect | ap-sout
OpenVPN Login
Not secure
https://3.0.78.23/admin/
OPENVPN
Access Server
Admin Login
Username
Password
Sign In
POWERED BY OPENVPN © 2009-2024 OpenVPN Inc. All Rights Reserved



Status Overview

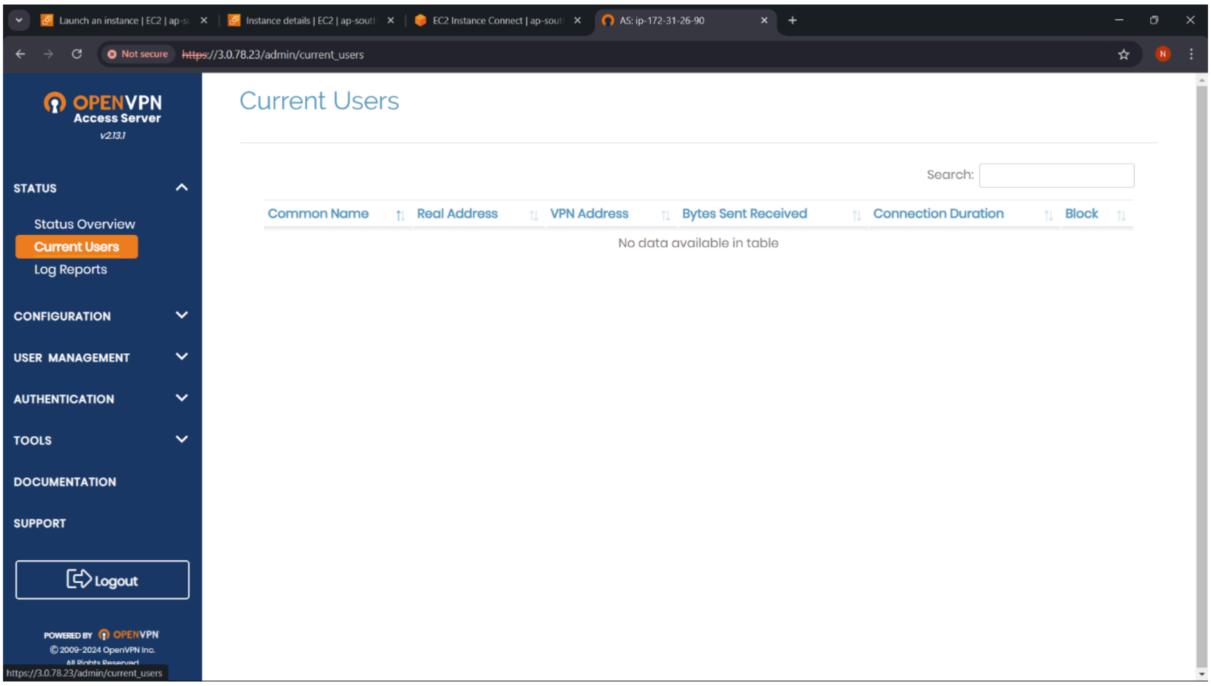
VPN services are currently **ON**

Stop VPN services

ⓘ We also now offer OpenVPN Cloud, a cloud-delivered service that integrates virtual networking with essential security capabilities. Learn More or dismiss notification.

Active Configuration

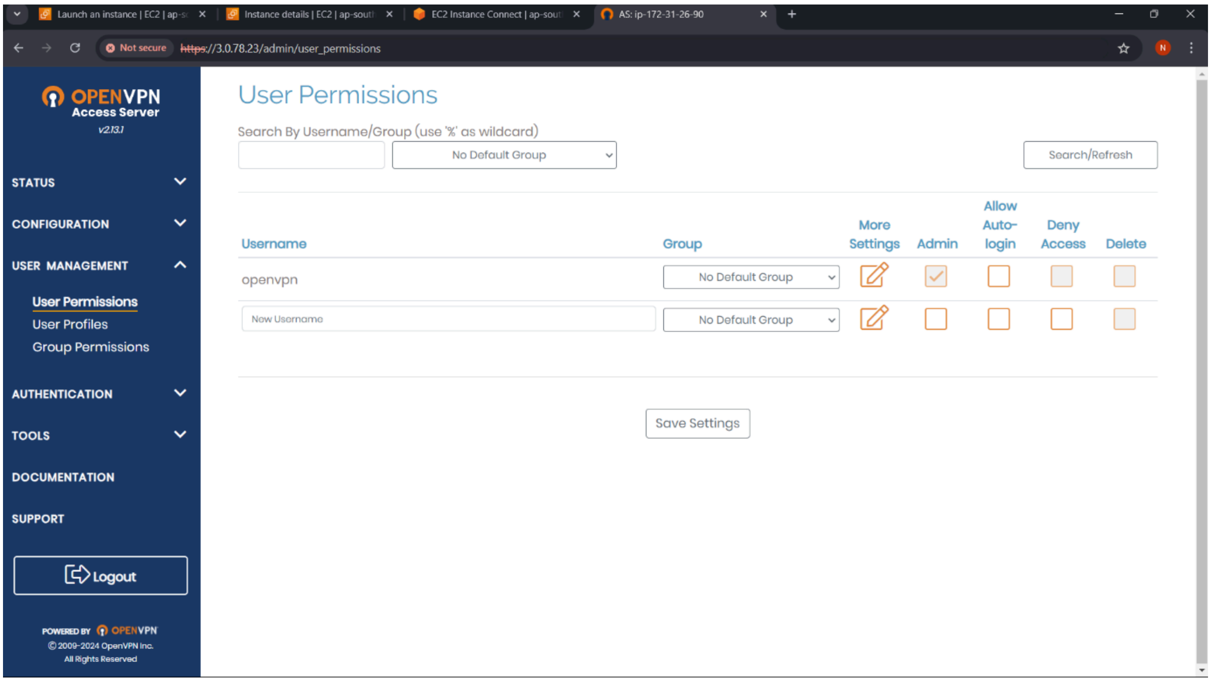
Access Server version:	2.13.1
Server Name:	3.0.78.23
Allowed VPN Connections:	2 VPN Connections
Current Active Users:	0
Authenticate users with:	local
Accepting VPN client connections on IP address:	all interfaces
Port for VPN client connections:	tcp/443, udp/1194
OSI Layer:	3 (routing/NAT)
Kernel data channel offloading:	Inactive. Kernel module not loaded



Current Users

Search:

Common Name	Real Address	VPN Address	Bytes Sent Received	Connection Duration	Block
No data available in table					



User Permissions

Search By Username/Group (use '%' as wildcard)

No Default Group

Search/Refresh

Username	Group	More Settings	Admin	Allow Auto-login	Deny Access	Delete
openvpn	No Default Group	✎	☑	□	□	□
New Username	No Default Group	✎	□	□	□	□

Save Settings