Methord 2 to conncet private instance

Docx to refer :: 1 https://aws.amazon.com/blogs/compute/secure-connectivity-from-public-to-private-introducing-ec2-instance-connect-endpoint-june-13-2023/

Video : https://www.youtube.com/watch?v=CN-_Y3uqC44&list=PPSV

Docx to refer :: 2 https://bobbyhadz.com/blog/aws-cli-could-not-connect-to-endpoint-url

Docx to refer :: 2 https://docs.aws.amazon.com/cli/latest/userguide/cli-authentication-user.html#cli-authentication-user-create

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vpc-006f7f751f903aabf / project-vpc

Actions ▼

Details Info

VPC ID	State	DNS hostnames	DNS resolution
vpc-006f7f751f903aabf	⊘ Available	Enabled	Enabled
Tenancy	**DHCP option set**	**Main route table**	**Main network ACL**
Default	dopt-0eef58e43ff0c9a11	rtb-0d46f78668f047f68	acl-0d8c503c81533aafb
Default VPC	**IPv4 CIDR**	**IPv6 pool**	**IPv6 CIDR (Network border group)**
No	10.0.0.0/16	–	–
Network Address Usage metrics	**Route 53 Resolver DNS Firewall rule groups**	**Owner ID**	
Disabled	–	405819896469	

Resource map New | CIDRs | Flow logs | Tags | Integrations

Resource map Info

VPC Show details
Your AWS virtual network

project-vpc

Subnets (2)
Subnets within this VPC

ap-south-1a
project-subnet-private1-ap-south-1a

ap-south-1b
project-subnet-private2-ap-south-1b

Route tables (3)
Route network traffic to resources

project-rtb-private1-ap-south-1a

rtb-0d46f78668f047f68

project-rtb-private2-ap-south-1b

Network connections (1)
Connections to other networks

project-vpce-s3

ⓘ **Was the resource map helpful today?** ✕
Give us feedback as often as possible. We are improving continually.

Details

Subnet ID	Subnet ARN	State	IPv4 CIDR
subnet-02b4f902e82c572bd	arn:aws:ec2:ap-south-1:405819896469:subnet/subnet-02b4f902e82c572bd	⊘ Available	10.0.144.0/20
Available IPv4 addresses		**Availability Zone**	**Availability Zone ID**
4090	**IPv6 CIDR**	ap-south-1b	aps1-az3
Network border group	–	**Route table**	**Network ACL**
ap-south-1	**VPC**	rtb-084db2cdd7dec84af | project-rtb-private2-ap-south-1b	acl-0d8c503c81533aafb
Default subnet	vpc-006f7f751f903aabf | project-vpc	**Auto-assign IPv6 address**	**Auto-assign customer-owned IPv4 address**
No	**Auto-assign public IPv4 address**	No	No
Customer-owned IPv4 pool	No	**IPv4 CIDR reservations**	**IPv6 CIDR reservations**
–	**Outpost ID**	–	–
IPv6-only	–	**Resource name DNS A record**	**Resource name DNS AAAA record**
No	**Hostname type**	Disabled	Disabled
DNS64	IP name		
Disabled	**Owner**		
	405819896469		

Flow logs | Route table | Network ACL | CIDR reservations | Sharing | Tags

Flow logs

🔍 Find resources by attribute or tag

⟳ | Actions ▼ | Create flow log

< 1 > ⚙

Name	Flow log ID	Filter	Destination type	Destination name	IAM role ARN
			No flow logs found in this Region		

rtb-0e4a7f2d1cbe87db7 / project-rtb-private1-ap-south-1a

Actions ▼

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
🗗 rtb-0e4a7f2d1cbe87db7	🗗 No	subnet-0de8811713f71127c / project-subnet-private1-ap-south-1a	–
VPC	**Owner ID**		
vpc-006f7f751f903aabf | project-vpc	🗗 405819896469		

Routes | Subnet associations | Edge associations | **Route propagation** | Tags

Routes (2)

Both ▼   Edit routes

🔍 Filter routes

< 1 > ⚙

Destination ▽	Target ▽	Status ▽	Propagated ▽
pl-78a54011	vpce-0f44962c69f4a0a82	⊘ Active	No
10.0.0.0/16	local	⊘ Active	No

Security Groups (26) Info

🔄   Actions ▼   Export security groups to CSV ▼   **Create security group**

🔍 Find resources by attribute or tag

< 1 > ⚙

	Name ▽	Security group ID ▽	Security group name ▽	VPC ID ▽	Description ▽	Owner
☐	–	sg-0cab4b170231fc155	OpenVPN Access Server (5 Connected …	vpc-0e190ca43b317839f	OpenVPN Access Server (5 Connected …	4058198964
☐	–	sg-04d1850b57ffc020d	launch-wizard-9	vpc-05e7b46b0c143e52b	launch-wizard-9 created 2023-11-06T…	4058198964
☐	–	sg-0800c2a7e136d0008	launch-wizard-1	vpc-0e190ca43b317839f	launch-wizard-1 created 2023-11-02T…	4058198964
☐	–	sg-037f705c1ac976417	launch-wizard-6	vpc-0e190ca43b317839f	launch-wizard-6 created 2023-11-06T…	4058198964
☐	–	sg-0e40e6692d5d47545	launch-wizard-2	vpc-0e190ca43b317839f	launch-wizard-2 created 2023-11-02T…	4058198964
☐	–	sg-0db352cf80f10970b	launch-wizard-3	vpc-0e190ca43b317839f	launch-wizard-3 created 2023-11-02T…	4058198964
☐	–	sg-0344a8240611110e7	eic-endpoint-01	vpc-0e190ca43b317839f	create-group-01	4058198964

Connect to instance Info

Connect to your instance i-0884ea2dc8c4f00b3 (ec2-connect) using any of these options

EC2 Instance Connect	Session Manager	SSH client	EC2 serial console

Instance ID

📋 i-0884ea2dc8c4f00b3 (ec2-connect)

Connection Type

⚪ **Connect using EC2 Instance Connect**
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 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.

Private IP address

📋 10.0.150.20

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ec2-user.

```
ec2-user
```

Max tunnel duration (seconds)

The maximum allowed duration of the SSH connection. Must comply with the maxTunnelDuration condition (if specified) in the IAM policy.

```
3600
```

Min 1 second. Max 3600 seconds (1 hour).

EC2 Instance Connect Endpoint

Only endpoints that have completed the creation process can be selected.

🔍 eice-03c9c2c75517a9574 ✕

> ⓘ **Note:** In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel   **Connect**

```
 1
 2
 3
 4    ssh -i key.pem ec2-user@i-0884ea2dc8c4f00b3
 5
 6
 7    ssh ec2-user@i-0884ea2dc8c4f00b3 \
 8        -i key.pem \
 9        -o ProxyCommand='aws ec2-instance-connect open-tunnel \
10        --instance-id %h'
11
12
13        aws ec2-instance-connect ssh --instance-id  i-0884ea2dc8c4f00b3
14
15
16        aws ec2 create-instance-connect-endpoint \
17        --subnet-id subnet-02b4f902e82c572bd \
18        --security-group-id sg-0ec4772cfb46c3508
19
20
21        aws ec2-instance-connect ssh --instance-id i-0884ea2dc8c4f00b3
```

```
                "ProductCodes": [],
kartikhegadi@Kartiks-MacBook-Air aws.02 %    aws ec2-instance-connect ssh --instance-id i-0884ea2dc8c4f00b3
The authenticity of host '10.0.150.20 (<no hostip for proxy command>)' can't be established.
ED25519 key fingerprint is SHA256:q4m4owrk4DUwOHhTM0yLTFD9wFKYd99ky2m57plLvT4.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.150.20' (ED25519) to the list of known hosts.
Last login: Fri Nov 10 14:26:35 2023 from ip-10-0-142-226.ap-south-1.compute.internal
      ,       #_
   ~\_  ####_        Amazon Linux 2
  ~~  \_#####\
  ~~      \###|       AL2 End of Life is 2025-06-30.
  ~~       \#/ ___
   ~~       V~' '->
    ~~~         /     A newer version of Amazon Linux is available!
     ~~._.   _/
        _/ _/        Amazon Linux 2023, GA and supported until 2028-03-15.
       _/m/'           https://aws.amazon.com/linux/amazon-linux-2023/

[ec2-user@ip-10-0-150-20 ~]$
```