

Amira Tarek Ibrahim (Terraform Lab1)

Bastion instance public ip in console

Instance summary for i-0f91c24b256be8bf7 (bastion-instance) [Info](#)

Updated less than a minute ago

↻ConnectInstance state ▼Actions ▼

Instance ID	Public IPv4 address
i-0f91c24b256be8bf7 (bastion-instance)	54.224.45.43 open address

ssh to bastion instance locally

The screenshot shows a Visual Studio Code window titled "ec2-application.tf - lab1 - Visual Studio Code". The Explorer sidebar on the left lists files for "LAB1", including ".terraform", ".terraform.lock.hcl", and various ".tf" files like "vpct.tf", "subnet.tf", "backend.tf", "sg.tf", "ec2-application.tf", "ec2-bastion.tf", "internetgateway.tf", "keypair.tf", "natgateway.tf", "networking.tf", "provider.tf", "routetable.tf", "sg.tf", "subnet.tf", "tf-keypair.pem", and "vpct.tf". The "ec2-application.tf" file is open in the editor, showing a Terraform resource definition for an AWS EC2 instance named "application_instance".

```
1 resource "aws_instance" "application_instance" {
2   ami           = "ami-03a6eaae9938c858c"
3   instance_type = "t2.micro"
4   key_name      = aws_key_pair.tf-keypair.id
5
6   subnet_id      = aws_subnet.private-subnet-az1.id
7   vpc_security_group_ids = [aws_security_group.private-sg.id]
8
9   tags = {
10     Name = "application-instance"
11   }
12 }
```

The Terminal panel at the bottom shows a session where the user attempts to SSH to the bastion instance. The prompt is "[ec2-user@ip-10-0-2-249 ~]\$". The user runs the command "History restored". Then, the user runs "sudo ssh -i 'tf-keypair.pem' ec2-user@54.224.45.43". The terminal shows the SSH connection process, including the Amazon Linux 2023 logo and the URL "https://aws.amazon.com/linux/amazon-linux-2023". The session ends with the prompt "[ec2-user@ip-10-0-1-55 ~]\$".

application instance private ip in console

Instance summary for i-0bf08a7217f2860e7 (application-instance) [Info](#)

Updated less than a minute ago

Connect

Instance state ▼

Actions ▼

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0bf08a7217f2860e7 (application-instance)	–	10.0.2.249
IPv6 address	Instance state	Public IPv4 DNS
–	Running	–

ssh to application instance from bastion instance

ec2-application.tf - lab1 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

LAB1

- .terraform
- .terraform.lock.hcl
- backend.tf
- ec2-application.tf
- ec2-bastion.tf
- internetgateway.tf
- keypair.tf
- natgateway.tf
- networking.tf
- provider.tf
- routetable.tf
- sg.tf
- subnet.tf
- tf-keypair.pem
- vpctf

OUTLINE

TIMELINE

ec2-application.tf > ...

1 resource "aws_instance" "application_instance" {

2 ami = "ami-03a6eaae9938c858c"

3 instance_type = "t2.micro"

4 key_name = aws_key_pair.tf-keypair.id

5

6 subnet_id = aws_subnet.private-subnet-az1.id

7 vpc_security_group_ids = [aws_security_group.private-sg.id]

8 }

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

sudo

+

✓

□

...

^

x

amira@amira-Lenovo-IdeaPad-Z510:~/iti_devops/terraform/lab1\$ sudo ssh -i "tf-keypair.pem" ec2-user@54.224.45.43

[sudo] password for amira:

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Amazon Linux 2023

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https://aws.amazon.com/linux/amazon-linux-2023

#####

Last login: Sat Sep 30 11:51:49 2023 from 197.34.93.181

[ec2-user@ip-10-0-1-55 ~]\$ sudo ssh -i "private-key.pem" ec2-user@10.0.2.249

#####

Amazon Linux 2023

#####

https://aws.amazon.com/linux/amazon-linux-2023

#####

Last login: Sat Sep 30 11:52:45 2023 from 10.0.1.55

[ec2-user@ip-10-0-2-249 ~]\$

Ln 14, Col 1 Spaces: 2 UTF-8 LF Terraform