

Step one:

```
aysha@Aysha: ~/hands8 × + ▾ - □ ×
aws_security_group.web_sg: Refreshing state... [id=sg-0e69a6ad34fcfd1471]
data.aws_ami.ubuntu: Read complete after 0s [id=ami-09c63204a7d809e8f]
aws_instance.db: Refreshing state... [id=i-0153e97bc27117e9c]
aws_instance.web: Refreshing state... [id=i-0fbf7570c557e964f]

No changes. Your infrastructure matches the configuration.

Terraform has compared your real infrastructure against your configuration
and found no differences, so no changes are needed.

Apply complete! Resources: 0 added, 0 changed, 0 destroyed.

Outputs:

DB_server_public_ip = "44.200.83.111"
Web_server_public_ip = "100.26.182.55"
aysha@Aysha:~/hands8$ sudo apt install -y mysql-client
[sudo] password for aysha:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
mysql-client is already the newest version (8.0.43-0ubuntu0.24.04.2).
0 upgraded, 0 newly installed, 0 to remove and 111 not upgraded.
aysha@Aysha:~/hands8$ curl http://100.26.182.55
<h1>Welcome to INFR2670 Web server!!!</h1>
aysha@Aysha:~/hands8$ mysql -h 44.200.83.111 -u webapp -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.0.43-0ubuntu0.24.04.2 (Ubuntu)

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owners.

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

mysql> |
```

Step two:

```
aysha@Aysha:~/hands8$ terraform apply -auto-approve
data.aws_ami.ubuntu: Reading...
aws_key_pair.default: Refreshing state... [id=terraform-key]
aws_security_group.web_sg: Refreshing state... [id=sg-0e69a6ad34fcd1471]
data.aws_ami.ubuntu: Read complete after 0s [id=ami-09c63204a7d809e8f]
aws_instance.web: Refreshing state... [id=i-0fbf7570c557e964f]
aws_instance.db: Refreshing state... [id=i-0153e97bc27117e9c]
```

No changes. Your infrastructure matches the configuration.

Terraform has compared your real infrastructure against your configuration and found no differences, so no changes are needed.

Apply complete! Resources: 0 added, 0 changed, 0 destroyed.

Outputs:

```
DB_server_public_ip = "44.200.83.111"
Web_server_public_ip = "100.26.182.55"
```

```
aysha@Aysha:~/hands8$ curl http://100.26.182.55
<h1>Welcome to INFR2670 Web server!!!</h1>
aysha@Aysha:~/hands8$ mysql -h 44.200.83.111 -u webapp -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.43-0ubuntu0.24.04.2 (Ubuntu)
```

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

```
mysql> curl http://100.26.182.55
      -> exit
      -> \c
mysql> exit
Bye
```

```
aysha@Aysha:~/hands8$ mysql -h 172.31.68.203 -u webapp -p
Enter password:
^X^Z
[2]+  Stopped                  mysql -h 172.31.68.203 -u webapp -p
aysha@Aysha:~/hands8$
```

Step 3:

```
ubuntu@ip-172-31-77-67: ~      + | - X
and found no differences, so no changes are needed.

Apply complete! Resources: 0 added, 0 changed, 0 destroyed.

Outputs:

DB_server_public_ip = "44.200.83.111"
Web_server_public_ip = "100.26.182.55"
aysha@Aysha:~/hands8$ curl http://100.26.182.55
<h1>Welcome to INFR2670 Web server!!!</h1>
aysha@Aysha:~/hands8$ ssh ubuntu@100.26.182.55
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1016-aws x86_64)

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

System information as of Mon Nov 17 05:26:17 UTC 2025

System load: 0.0          Temperature:      -273.1 C
Usage of /:   30.7% of 6.71GB Processes:        114
Memory usage: 27%          Users logged in:   0
Swap usage:   0%           IPv4 address for ens5: 172.31.77.67

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

Last login: Mon Nov 17 04:37:21 2025 from 99.248.7.188
ubuntu@ip-172-31-77-67:~$ mysql -h 172.31.68.203 -u webapp -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 86
Server version: 8.0.43-0ubuntu0.24.04.2 (Ubuntu)

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owners.

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

mysql>
```