⚠ The connection to your Google Cloud Shell was lost.

```
                + key    = (known after apply)
                + values = (known after apply)
              }
          }

      + scheduling {
          + automatic_restart          = (known after apply)
          + instance_termination_action = (known after apply)
          + min_node_cpus              = (known after apply)
          + on_host_maintenance        = (known after apply)
          + preemptible                = (known after apply)
          + provisioning_model         = (known after apply)

          + node_affinities {
              + key      = (known after apply)
              + operator = (known after apply)
              + values   = (known after apply)
            }
        }
    }

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

google_compute_instance.terraform: Creating...
google_compute_instance.terraform: Still creating... [10s elapsed]
google_compute_instance.terraform: Creation complete after 13s [id=projects/gke22-368811/zones/us-central1-a/instances/cloudbbuildterraform]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
ffpalm@cloudshell:~/terraform-hello/terraform-gcp/terraform-hello (gke22-368811)$
```

ffpalm@cloudshell:~/terraform-hello/terraform-gcp/terraform-hello (gke22-368811)$ terraform show

google_compute_instance.terraform:

resource "google_compute_instance" "terraform" {

    can_ip_forward   = false

    cpu_platform   = "Intel Haswell"

    current_status   = "RUNNING"

    deletion_protection   = false

    enable_display   = false

    guest_accelerator   = []

    id   = "projects/gke22-368811/zones/us-central1-a/instances/cloudbbuildterraform"

    instance_id   = "2416199963675862311"

    label_fingerprint   = "42WmSpB8rSM="

    machine_type   = "n1-standard-1"

```
    metadata_fingerprint = "ME2Y6LDtP9o="

    name                    = "cloudbbuildterraform"

    project                 = "gke22-368811"

    self_link               =
"https://www.googleapis.com/compute/v1/projects/gke22-368811/zones/us-central1-a/instances
/cloudbbuildterraform"

    tags_fingerprint        = "42WmSpB8rSM="

    zone                    = "us-central1-a"


    boot_disk {

        auto_delete = true

        device_name = "persistent-disk-0"

        mode            = "READ_WRITE"

        source          =
"https://www.googleapis.com/compute/v1/projects/gke22-368811/zones/us-central1-a/disks/clo
udbbuildterraform"


        initialize_params {

            image    =
"https://www.googleapis.com/compute/v1/projects/debian-cloud/global/images/debian-11-bulls
eye-v20221206"

            labels = {}

            size     = 10

            type     = "pd-standard"

        }

    }


    network_interface {
```

```
        name                 = "nic0"

        network              =
"https://www.googleapis.com/compute/v1/projects/gke22-368811/global/networks/default"

        network_ip           = "10.128.0.28"

        queue_count          = 0

        stack_type           = "IPV4_ONLY"

        subnetwork           =
"https://www.googleapis.com/compute/v1/projects/gke22-368811/regions/us-central1/subnetw
orks/default"

        subnetwork_project = "gke22-368811"


        access_config {

            nat_ip           = "35.222.107.165"

            network_tier = "PREMIUM"

        }

    }


    scheduling {

        automatic_restart     = true

        min_node_cpus         = 0

        on_host_maintenance = "MIGRATE"

        preemptible           = false

        provisioning_model    = "STANDARD"

    }


    shielded_instance_config {

        enable_integrity_monitoring = true
```

```
        enable_secure_boot          = false

        enable_vtpm                  = true

    }
```

```
gcloud compute instances create instance-1 --project=palma-devops-iac --zone=us-central1-c
--machine-type=e2-medium --network-interface=network-tier=PREMIUM,subnet=default
--maintenance-policy=MIGRATE --provisioning-model=STANDARD
--service-account=1014222866085-compute@developer.gserviceaccount.com
--scopes=https://www.googleapis.com/auth/devstorage.read_only,https://www.googleapis.com/
auth/logging.write,https://www.googleapis.com/auth/monitoring.write,https://www.googleapis.c
om/auth/servicecontrol,https://www.googleapis.com/auth/service.management.readonly,https://
/www.googleapis.com/auth/trace.append
--create-disk=auto-delete=yes,boot=yes,device-name=instance-1,image=projects/debian-cloud/gl
obal/images/debian-11-bullseye-v20221206,mode=rw,size=10,type=projects/palma-devops-iac/zo
nes/us-west4-b/diskTypes/pd-balanced --no-shielded-secure-boot --shielded-vtpm
--shielded-integrity-monitoring --reservation-affinity=any
```

Active Configuration Path: [/tmp/tmp.HmxXaQ9bQj/configurations/config_cloudshell-6751]

Account: [ffpalm@gmail.com]

Project: [palma-devops-iac]

Current Properties:

   [accessibility]

     screen_reader: [True] (property file)

   [component_manager]

disable_update_check: [True] (property file)

[compute]

gce_metadata_read_timeout_sec: [30] (property file)

[core]

account: [ffpalm@gmail.com] (property file)

disable_usage_reporting: [True] (property file)

project: [palma-devops-iac] (property file)

[metrics]

environment: [devshell] (property file)

Logs Directory: [/tmp/tmp.HmxXaQ9bQj/logs]

Last Log File: [/tmp/tmp.HmxXaQ9bQj/logs/2022.12.16/13.51.44.606069.log]

git: [git version 2.30.2]

ssh: [OpenSSH_8.4p1 Debian-5+deb11u1, OpenSSL 1.1.1n   15 Mar 2022]

```
        + specific_reservation {
            + key    = (known after apply)
            + values = (known after apply)
          }
        }

    + scheduling {
        + automatic_restart            = (known after apply)
        + instance_termination_action = (known after apply)
        + min_node_cpus                = (known after apply)
        + on_host_maintenance          = (known after apply)
        + preemptible                  = (known after apply)
        + provisioning_model           = (known after apply)

        + node_affinities {
            + key      = (known after apply)
            + operator = (known after apply)
            + values   = (known after apply)
          }
        }
    }

  # google_compute_network.vpc_network will be created
  + resource "google_compute_network" "vpc_network" {
      + auto_create_subnetworks        = true
      + delete_default_routes_on_create = false
      + gateway_ipv4                   = (known after apply)
      + id                             = (known after apply)
      + internal_ipv6_range            = (known after apply)
      + mtu                            = (known after apply)
      + name                           = "terraform-network"
      + project                        = (known after apply)
      + routing_mode                   = (known after apply)
      + self_link                      = (known after apply)
    }

Plan: 2 to add, 0 to change, 0 to destroy.

Changes to Outputs:
  + ip = (known after apply)

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes
```

```
Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

google_compute_network.vpc_network: Creating...
google_compute_network.vpc_network: Still creating... [10s elapsed]
google_compute_network.vpc_network: Still creating... [20s elapsed]
google_compute_network.vpc_network: Still creating... [30s elapsed]
google_compute_network.vpc_network: Still creating... [40s elapsed]
google_compute_network.vpc_network: Creation complete after 42s [id=projects/palma-devops-iac/global/networks/terraform-network]
google_compute_instance.vm_instance: Creating...
google_compute_instance.vm_instance: Still creating... [10s elapsed]
google_compute_instance.vm_instance: Creation complete after 13s [id=projects/palma-devops-iac/zones/us-central1-c/instances/clo
udbbuildterraform]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

Outputs:

ip = "10.128.0.2"
ffpalm@cloudshell:~/terraform-hello/terraform-gcp/terraform-exemplo2 (palma-devops-iac)$
```

Notifications

✓ **Delete VM instance "instance-1"**   22 hours ago
  palma-devops-iac

✓ **Enable service: run.googleapis.com**   23 hours ago
  palma-devops-iac

✓ **Enable service: appengine.googleapis.com**   23 hours ago
  palma-devops-iac

✓ **Enable service: cloudbuild.googleapis.com**   23 hours ago
  palma-devops-iac

✓ **Enable service: bigquery.googleapis.com**   23 hours ago
  palma-devops-iac

✓ **Enable service: compute.googleapis.com**   23 hours ago
  palma-devops-iac

✓ **Enable service: compute.googleapis.com**   23 hours ago
  palma-devops-iac

✓ **Delete VM instance "instance-1"**   23 hours ago
  gkebc

✓ **Delete VM instance "instance-1"**   1 day ago
  gkebc

✓ **Create VM instance "instance-1" and its boot**   1 day ago
  disk "instance-1"
  gkebc

Buckets

Monitoring

Settings

← Object details

HELP ASSISTANT   LEARN

LIVE OBJECT   VERSION HISTORY

⬇ DOWNLOAD   ✎ EDIT METADATA   ⠇ EDIT ACCESS   🗑 DELETE

Overview

Type	text/plain; charset=utf-8
Size	5.8 KB
Created	Dec 17, 2022, 11:20:01 AM
Last modified	Dec 17, 2022, 11:20:01 AM
Storage class	Standard
Custom time	—
Public URL ❓	Not applicable
Authenticated URL ❓	https://storage.cloud.google.com/palmapterraform/terraform/state/default.tfstate
gsutil URI ❓	gs://palmapterraform/terraform/state/default.tfstate

Permissions

Public access	Not public

Protection

Hold status	None ✎
Version history ❓	—
Retention policy	None
Encryption type	Google-managed key

Marketplace

Release Notes

```
ip = "10.128.0.2"
ffpalm@cloudshell:~/terraform-hello/terraform-gcp/terraform-exemplo2 (palma-devops-iac)$ terraform plan
google_compute_network.vpc_network: Refreshing state... [id=projects/palma-devops-iac/global/networks/terraform-network]
google_compute_instance.vm_instance: Refreshing state... [id=projects/palma-devops-iac/zones/us-central1-c/instances/cloudbbuild
terraform]

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.
ffpalm@cloudshell:~/terraform-hello/terraform-gcp/terraform-exemplo2 (palma-devops-iac)$ ▯
```

VM instances

⊕ CREATE INSTANCE   ⬇ IMPORT VM   ⟳ REFRESH   ▶ START / RESUME   ■ STOP   ⋮   ⦿ OPERATION

INSTANCES   INSTANCE SCHEDULES

VM instances are highly configurable virtual machines for running workloads on Google infrastructure. Learn more

≡ Filter   Enter property name or value   ❓   ▥

☐	Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP	Connect	
☐	✅	cloudbbuildterraform	us-central1-c			10.128.0.2 (nic0)	130.211.232.118 (nic0)	SSH ▾	⋮

VPC networks

Name ↑	Subnets	MTU	Mode
default	36	1460	Auto
terraform-network	35	1460	Auto

Cloud build

Triggers   + CREATE TRIGGER   → CONNECT REPOSITORY   ⋮   🎓 LEARN

Region
global (non-regional) ▼

Filter   Enter property name or value   ❓ | ▥

Name ↑	Description	Repository	Event	Build configurat		
desafioterraform	-	⭘ fabiofpalma/desafioterraform ⤢	Push to branch	Autodetected	RUN	⋮

Cloud Build		← Build details ⟳ REBUILD ⎘ COPY URL	🎓 LEARN

⊞ Dashboard
≡ History
↦ Triggers
⚙ Settings

✅ **Successful: 64373f2a**
Started on Dec 17, 2022, 12:35:48 PM

Source
gs://palma-devops-iac_cloudbuild/source/1671291337.077285-179df13b3bb941f9b8ecc91be291facf.tgz

Steps	Duration
✅ Build Summ… 1 Step	00:00:20
✅ 0: tf apply sh -c terrafor…	00:00:07

BUILD LOG   EXECUTION DETAILS   BUILD ARTIFACTS

☐ Wrap lines   ⊤ ⊥ �
☐ Show newest entries first   :: EXPAND   VIEW RAW ⤢

```
1  starting build "64373f2a-4575-4071-b524-199c757f27e8"
2
3  FETCHSOURCE
4  Fetching storage object: gs://palma-devops-iac_cloudbuild/source/1671291337.07728
5  Copying gs://palma-devops-iac_cloudbuild/source/1671291337.077285-179df13b3bb941f9
6  / [0 files][    0.0 B/ 18.1 MiB]
7  / [1 files][ 18.1 MiB/ 18.1 MiB]
8  Operation completed over 1 objects/18.1 MiB.
9  BUILD
10 Pulling image: hashicorp/terraform:1.0.0
11 1.0.0: Pulling from hashicorp/terraform
12 540db60ca938: Pulling fs layer
13 a84ab4c8a000: Pulling fs layer
```

Release Notes
‹|

```
ffpalm@cloudshell:~/.../terraform-gcp/terraform-exemplo2 (palma-devops-iac)$ gcloud build
s submit --config cloudbuild.yaml
Creating temporary tarball archive of 7 file(s) totalling 64.7 MiB before compression.
Uploading tarball of [.] to [gs://palma-devops-iac_cloudbuild/source/1671290603.173312-93
0e8e89bdfc4b99befda81f2d550fc8.tgz]
Created [https://cloudbuild.googleapis.com/v1/projects/palma-devops-iac/locations/global/
builds/3e1ec927-334e-4598-9a58-50fbb36cc105].
Logs are available at [ https://console.cloud.google.com/cloud-build/builds/3e1ec927-334e
-4598-9a58-50fbb36cc105?project=1014222866085 ].
-------------------------------- REMOTE BUILD OUTPUT -----------------------------------
starting build "3e1ec927-334e-4598-9a58-50fbb36cc105"

FETCHSOURCE
Fetching storage object: gs://palma-devops-iac_cloudbuild/source/1671290603.173312-930e8e
89bdfc4b99befda81f2d550fc8.tgz#1671290614979806
█
```

| 5 | entrypoint: 'sh' |

⚠ Problems   📄 Output   ▶ palma-devops-iac ✕   ⬚

```
google_compute_network.vpc_network: Refreshing state... [id=projects/palma-devops-iac/glo
bal/networks/terraform-network]
google_compute_instance.vm_instance: Refreshing state... [id=projects/palma-devops-iac/zo
nes/us-central1-c/instances/cloudbuildterraform]

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:

ip = "10.128.0.2"
PUSH
DONE
--------------------------------------------------------------------------------
ID: 3e1ec927-334e-4598-9a58-50fbb36cc105
CREATE_TIME: 2022-12-17T15:23:35+00:00
DURATION: 23S
SOURCE: gs://palma-devops-iac_cloudbuild/source/1671290603.173312-930e8e89bdfc4b99befda81
f2d550fc8.tgz
IMAGES: -
STATUS: SUCCESS
ffpalm@cloudshell:~/.../terraform-gcp/terraform-exemplo2 (palma-devops-iac)$ █
```

Códigos

EXPLORER   ···

> OPEN EDITORS

∨ FFPALM   ↻   🗗   ···
> 📁 cloud-build-sam ●
> 📁 gopath
∨ 📁 terraform-hello
  ∨ 📁 terraform-gcp
    ∨ 📁 terraform-exem|
      > 📁 cloud-console·
      🗃 cloudbuild.yan
      🐦 main.tf
      🐦 outputs.tf
      🐦 variables.tf
    ∨ 📁 terraform-hello
      🐦 instance.tf
      📄 terraform.tfsta
      📄 terraform.tfsta
      📖 README.md
    🐦 instance.tf
    📄 terraform.tfstate
    📄 terraform.tfstate.|
    📖 README-cloudsh·

🐦 *main.tf* ✕

terraform-hello › terraform-gcp › terraform-exemplo2 › 🐦 main.tf › …

```terraform
1   terraform {
2     required_providers {
3       google = {
4         source = "hashicorp/google"
5       }
6     }
7
8      backend "gcs" {
9       bucket  = "palmapterraform"
10      prefix  = "terraform/state"
11    }
12
13  }
14
15  provider "google" {
16    project = "palma-devops-iac"
17    region  = "us-central1"
18    zone    = "us-central1-c"
19  }
20
21  resource "google_compute_network" "vpc_network" {
22    name = "${var.network_name}"
23  }
24
25  resource "google_compute_instance" "vm_instance" {
26    name          = "cloudbbuildterraform"
27    machine_type  = "f1-micro"
28    tags = ["prod"]
29
30    labels = {
31      centro_custo = "${var.centro_custo_rh}"
```

```
27    machine_type = "f1-micro"
28    tags = ["prod"]
29
30    labels = {
31      centro_custo = "${var.centro_custo_rh}"
32    }
33
34    boot_disk {
35      initialize_params {
36        image = "debian-cloud/debian-11"
37      }
38    }
39    network_interface {
40      network = google_compute_network.vpc_network.name
41      access_config {
42      }
43    }
44  }
```