Images of terraform code application and resources running on GCP

VPC CREATION:


```
christianchukwu@Christians-MacBook-Pro-2 gcp-vpc % terraform init && terraform plan && terraform apply
Initializing modules...

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of hashicorp/google from the dependency lock file
- Using previously-installed hashicorp/google v5.15.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
module.vpc.google_compute_network.vpc: Refreshing state... [id=projects/devops-rns/global/networks/rns-vpc]
module.subnets.google_compute_subnetwork.public_subnet: Refreshing state... [id=projects/devops-rns/regions/us-central1/subnetworks/rns-public-subnet]
module.subnets.google_compute_subnetwork.private_subnet: Refreshing state... [id=projects/devops-rns/regions/us-central1/subnetworks/rns-private-subnet]
module.firewall.google_compute_firewall.allow_external: Refreshing state... [id=projects/devops-rns/global/firewalls/allow-external]
module.firewall.google_compute_firewall.allow_internal: Refreshing state... [id=projects/devops-rns/global/firewalls/allow-internal]

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.
module.vpc.google_compute_network.vpc: Refreshing state... [id=projects/devops-rns/global/networks/rns-vpc]
module.firewall.google_compute_firewall.allow_external: Refreshing state... [id=projects/devops-rns/global/firewalls/allow-external]
module.firewall.google_compute_firewall.allow_internal: Refreshing state... [id=projects/devops-rns/global/firewalls/allow-internal]
module.subnets.google_compute_subnetwork.private_subnet: Refreshing state... [id=projects/devops-rns/regions/us-central1/subnetworks/rns-private-subnet]
module.subnets.google_compute_subnetwork.public_subnet: Refreshing state... [id=projects/devops-rns/regions/us-central1/subnetworks/rns-public-subnet]

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:

firewall_external_id = "projects/devops-rns/global/firewalls/allow-external"
firewall_internal_id = "projects/devops-rns/global/firewalls/allow-internal"
private_subnet_id = "projects/devops-rns/regions/us-central1/subnetworks/rns-private-subnet"
public_subnet_id = "projects/devops-rns/regions/us-central1/subnetworks/rns-public-subnet"
vpc_id = "projects/devops-rns/global/networks/rns-vpc"
```

rns-vpc

| OVERVIEW | SUBNETS | STATIC INTERNAL IP ADDRESSES | FIREWALLS | FIREWALL ENDPOINTS | ROUTES | VPC NETWORK PEERII |

Subnets   ➕ ADD SUBNET   ☰ FLOW LOGS ▾

Filter   Enter property name or value

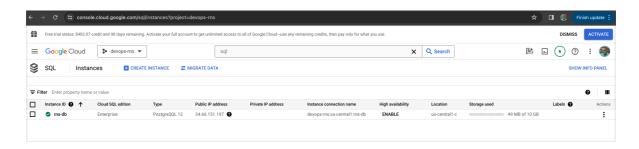| Name ↑	Region	Stack Type	Internal IP ranges	External IP ranges	Secondary IPv4 ranges	Gateway	Private
rns-private-subnet	us-central1	IPv4	10.0.2.0/24	None	None	10.0.2.1	On
rns-public-subnet	us-central1	IPv4	10.0.1.0/24	None	None	10.0.1.1	Off

DATABASE CREATION:

CREATE CLOUD RUN AND LOADBALANCER:

load_balancer_ip = "34.98.125.202"
service_url = "https://rns-service-ghtmekoyta-uc.a.run.app"

```
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  ~ update in-place

Terraform will perform the following actions:

  # google_cloud_run_service.cloud_run_service will be updated in-place
  ~ resource "google_cloud_run_service" "cloud_run_service" {
        id       = "locations/us-central1/namespaces/devops-rns/services/rns-service"
        name     = "rns-service"
        # (4 unchanged attributes hidden)

      ~ template {
          ~ metadata {
              ~ annotations = {
                  + "run.googleapis.com/allow-unauthenticated" = "true"
                  + "run.googleapis.com/ingress"               = "all"
                    # (1 unchanged element hidden)
                }
                # (2 unchanged attributes hidden)
            }

            # (1 unchanged block hidden)
        }

        # (2 unchanged blocks hidden)
    }

Plan: 0 to add, 1 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_cloud_run_service.cloud_run_service: Modifying... [id=locations/us-central1/namespaces/devops-rns/services/rns-service]
google_cloud_run_service.cloud_run_service: Modifications complete after 1s [id=locations/us-central1/namespaces/devops-rns/services/rns-service]

Apply complete! Resources: 0 added, 1 changed, 0 destroyed.

Outputs:

load_balancer_ip = "34.98.125.202"
service_url = "https://rns-service-ghtmekoyta-uc.a.run.app"
```

---

console.cloud.google.com/run?referrer=search&project=devops-rns   Finish update

Free trial status: $403.07 credit and 90 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use.   DISMISS   ACTIVATE

Google Cloud   devops-rns   cloud run   Search   6

Cloud Run   Services   CREATE SERVICE   CREATE JOB   MANAGE CUSTOM DOMAINS   RELEASE NOTES

SERVICES   JOBS

Services

Filter   Filter services

	Name ↑	Req/sec	Region	Authentication	Ingress	Recommendation	Last deployed	Deployed by
✓	rns-service	0	us-central1	Allow unauthenticated	All		2 hours ago	terraform@devops-rns.iam.gserviceaccount.com

---

console.cloud.google.com/net-services/loadbalancing/list/loadBalancers?referrer=search&project=devops-rns

Free trial status: $403.07 credit and 90 days remaining. Activate your full account to get unlimited access to all of Google Cloud—use any remaining credits, then pay only for what you use.   DISMISS   ACTIVATE

Google Cloud   devops-rns   loadb   Search   6

Network services   Load balancing   CREATE LOAD BALANCER   REFRESH   DELETE   LEARN

Load balancing
Cloud DNS
Cloud CDN
Cloud NAT
Traffic Director
Service Directory
Cloud Domains
Private Service Connect
SSL policies

Get started with real-time analytics

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✓ Diagnose and prevent connectivity issues
✓ View packet loss and latency metrics
✓ Keep your firewall rules strict and efficient

TRY NOW   REMIND ME LATER

LOAD BALANCERS   BACKENDS   FRONTENDS

ℹ Faster web performance and improved web protection with Cloud CDN and Cloud Armor. Learn more   DISMISS

Filter   Enter property name or value

	Name	Load balancer type	Access type	Protocols	Region	Backends
	cloud-run-url-map	Application (Classic)	External	HTTP		✓ 1 backend service (0 instance groups, 1 network endpoint group)

To view or delete load balancing resources like forwarding rules and target proxies, go to the load balancing components view.