

Getting Started Guide

Overview

This getting started guide will explain how to launch a NetFoundry application gateway in the GCP compute engine.

Launching an instance in GCP

Pre Deployment

Important

The BYOL (Bring Your Own License) licensing model is one that relies on your purchasing a software license separately from our website [here](#) and registering your appliance with generated one time key.

Important

Assumption is that the NF Fabric is already up.


Deployment of Appliance

To get started, visit the GCP Marketplace site by clicking [here](#). If the marketplace doesn't come up, you can go to the search bar that appears, enter NetFoundry Application Gateway and click the resulting solution that appears.

To launch the instance Click on "Launch On Compute Engine"

Google Cloud Platform

netfoundry-marketplace-Public



NetFoundry Cloud Gateway
[NetFoundry Inc.](#)
Estimated costs: \$50.24/month + BYOL license fee

Spin up your network

LAUNCH ON COMPUTE ENGINE

Runs on
Google Compute Engine

Type
Single VM
BYOL

Last updated
2/5/20, 10:36 AM

Category
[Networking](#)
[Security](#)

Version
default-version

Operating system
Centos 7.7

Overview

Deploy secure, high performance, global networks as easily and effectively as you spin up your GCP instances:

- 1. Spin up your network in minutes via web console and APIs
- 2. Use our client software to connect user devices across our global network fabric from any Internet connection
- 3. Use our virtual and containerized gateways to connect applications and users from any site, data center or cloud from any Internet connection

NetFoundry extends any WAN without requiring WAN re-engineering, custom hardware, complex configuration or specific network providers. Simply connect your selected apps, user and IoT devices, and sites into zero-trust, high-performance private networks. Extend your PrivateLink or private WAN benefits globally, with software.

Like GPC, we provide the core infrastructure as a fully managed, on-demand service so that you control the networks without building or managing them. Use your existing Internet connections as short on-ramps to our managed global core network fabric, built over the Internet, leveraging multiple tier one providers.

Our platform enables you to do app-level micro-segmentation across any set of networks and clouds, spinning up app-specific networks called "AppWANs". Each AppWAN is "dark" and encrypted, protecting you from DDos and Man in the Middle attacks. Each device you attach to the network is authenticated via bi-directional certificate validation, included as part of our fully managed service, with the certificates embedded in our endpoint software.

[Learn more](#)

About NetFoundry Inc.

NetFoundry - Secure, high performance, cloud native networking across the Internet. Simple, Zero Trust, global networking for your applications and data.

[Learn more](#)

[About the provider](#)

About BYOL

BYOL (Bring Your Own License) solutions let you run software on Compute Engine while using licenses purchased directly from the provider. Google only charges you for the infrastructure costs, giving you the flexibility to purchase and manage your own licenses.

New NetFoundry Cloud Gateway deployment

Your current project may have limited quota. If your deployment fails, change the `project_id` query parameter in this page's URL to a project with a higher quota.

Deployment name
netfoundry-cloud-gateway-1

Zone
us-east4-c

Machine type
2 vCPUs 7.5 GB memory [Customize](#)

[Upgrade your account](#) to create instances with up to 96 cores

Boot Disk
Boot disk type
SSD Persistent Disk
Boot disk size in GB
10

SSH Security
Instance level SSH Key

☐ Block project wide ssh keys

Networking
Network interfaces
default default (10.150.0.0/20)

[+ Add network interface](#)

You have reached the maximum number of one network interface

Firewall
Add tags and firewall rules to allow specific network traffic from the Internet

Creating certain firewall rules may expose your instance to the Internet. Please check if the rules you are creating are aligned with your security preferences. [Learn more](#)

☐ Allow TCP port 22 traffic from the Internet

Source IP ranges for TCP port 22 traffic
0.0.0.0/0, 192.169.0.2/24

[More](#)

NetFoundry
GatewayRegistrationKey

NetFoundry Cloud Gateway overview
Solution provided by NetFoundry Inc.

\$56.54 per month estimated
Effective hourly rate \$0.077 (730 hours per month)

[Details](#)

Software
Operating System Centos (7.7)

Launching a BYOL solution
Marketplace will deploy this solution, but you are responsible for purchasing and managing the license directly from the provider.

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Google is providing this software or service "as-is" and will not perform any ongoing maintenance. Ongoing upgrades and maintenance are your responsibility.

Deploy

- **Deployment name:** Specify the name of the instance you would like to use.
- **Zone:** Specify the region you would like to launch your appliance.
- **Machine type:** The instance type and size for your appliance. For optimal performance, it is recommended that small (2 vCPU/8 GB RAM) is chosen, or better.
- **Boot disk type:** SSD Persistent Disk is appropriate for the appliance since there is minimal disk I/O for the instance.
- **Boot disk size in GB:** The instance by default comes with a 10 GB boot disk.
- **SSH instance level key:** (OPTIONAL) If you would like to apply an instance level ssh key.

- **Block project wide ssh keys:** (OPTIONAL) If you would like to prevent the project keys from being applied to this instance.
- **Network name / Subnet name:** The network you would like to place your appliance in.
- **Firewall:** (OPTIONAL) If you would like to allow ssh access to your instance, please check the box & fill out the restricted source ip/networks. **We do not recommend leaving this open to 0.0.0.0/0** if you choose this option.
- **IP forwarding:** Must be set to on, if you would like to reach applications within your networks.
- **GatewayRegistrationKey:** (OPTIONAL) This field allows you provide the gateway registration key that will passed into the launching image. Automating the registration portion of the setup. You can access the gateway via ssh & register after this deployment is complete. Learn how to get a registration key [here](#).

Once the fields have been supplied, Click on "Deploy"

Google Cloud Platform netfoundry-marketplace-public

netfoundry-cloud-gateway-1 netfoundry-cloud-gateway

netfoundry-cloud-gateway-1 has been deployed

Overview - netfoundry-cloud-gateway-1

netfoundry-cloud-gateway netfoundry-cloud-gateway.jinja

netfoundry-cloud-gateway-vm-tmpl vm_instance.py

netfoundry-cloud-gateway-1-vm vm_instance

NetFoundry Cloud Gateway
Solution provided by NetFoundry Inc.

Instance netfoundry-cloud-gateway-1-vm
Instance zone us-east4-c
Instance machine type n1-standard-2

[MORE ABOUT THE SOFTWARE](#)

Get started with NetFoundry Cloud Gateway

SSH

Suggested next steps

- **Register the Gateway**
Register the Gateway in your NetFoundry Network

```
$ sudo nfnreg {registration key}
```

- **Open TCP port 22 traffic**
This firewall rule is not enabled. To allow specific network traffic from the Internet, create a firewall rule to open TCP port 22 traffic for target tag "netfoundry-cloud-gateway-1-deployment". [Learn more](#)
If you are using Google Cloud SDK, type the following command in the terminal:

```
$ gcloud --project=netfoundry-marketplace-public compute firewall-rules create netfoundry-cloud-gateway-1-deployment --allow tcp:22 --target-tags netfoundry-cloud-gateway-1-deployment
```

- **Assign a static external IP address to your VM instance**
An ephemeral external IP address has been assigned to the VM instance. If you require a static external IP address, you may promote the address to static. [Learn more](#)

Documentation

- [Learn More](#)

Support

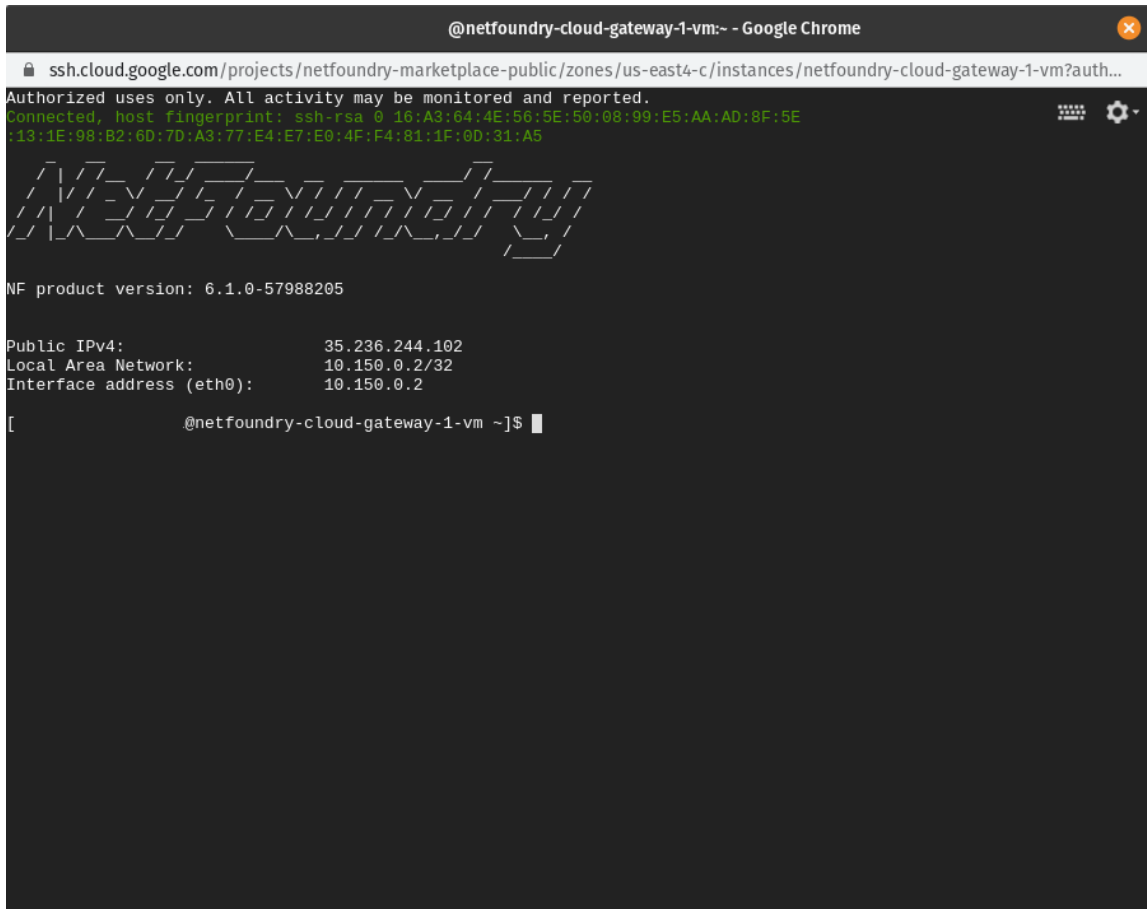
Tier Support available [Go to NetFoundry Inc. support](#)

Template properties

[SHOW MORE](#)

Post Deployment

If you did not supply the **GatewayRegistrationKey** field during the deployment, you can access the machine via ssh by Clicking on the "SSH" button. OR You can optionally access this from other ssh point if you enabled the firewall rules to do so.

A screenshot of a Google Chrome browser window displaying an SSH terminal session. The browser's address bar shows the URL: `ssh.cloud.google.com/projects/netfoundry-marketplace-public/zones/us-east4-c/instances/netfoundry-cloud-gateway-1-vm?auth...`. The terminal window title is `@netfoundry-cloud-gateway-1-vm:~ - Google Chrome`. The terminal content includes a security warning: "Authorized uses only. All activity may be monitored and reported." followed by a connection confirmation: "Connected, host fingerprint: ssh-rsa 0 16:A3:64:4E:56:5E:50:08:99:E5:AA:AD:8F:5E:13:1E:98:B2:6D:7D:A3:77:E4:E7:E0:4F:F4:81:1F:0D:31:A5". Below this is a large ASCII art logo for NetFoundry. Further down, it displays "NF product version: 6.1.0-57988205" and network configuration details: "Public IPv4: 35.236.244.102", "Local Area Network: 10.150.0.2/32", and "Interface address (eth0): 10.150.0.2". The prompt `[@netfoundry-cloud-gateway-1-vm ~]$` is visible at the bottom.

Use the following command to register the gateway with your network:

```
sudo nfnreg {registration key}
```

Setup is complete.