

Getting Started Guide

Overview

This getting started guide will explain how to launch a NetFoundry Zero Trust Networking into 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 Zero Trust Networking 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.

Supply the information needed

Google Cloud Platform netfoundry-marketplace-Public

New NetFoundry Cloud Gateway deployment

Warning: Your current project may have limited quota. If your deployment fails, change the 'project' 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: SSD Persistent Disk, 10 GB

SSH Security: Instance level SSH Key

Block project wide ssh keys

Networking: Network Interfaces: default default (10.150.0.0/20). [+ Add network interface](#)

Firewall: **Warning:** 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

NetFoundry: GatewayRegistrationKey

[Deploy](#)

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
NetFoundry Cloud Gateway is a BYOL (Bring Your Own License) 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.

LAUNCH OPTIONS

- **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.

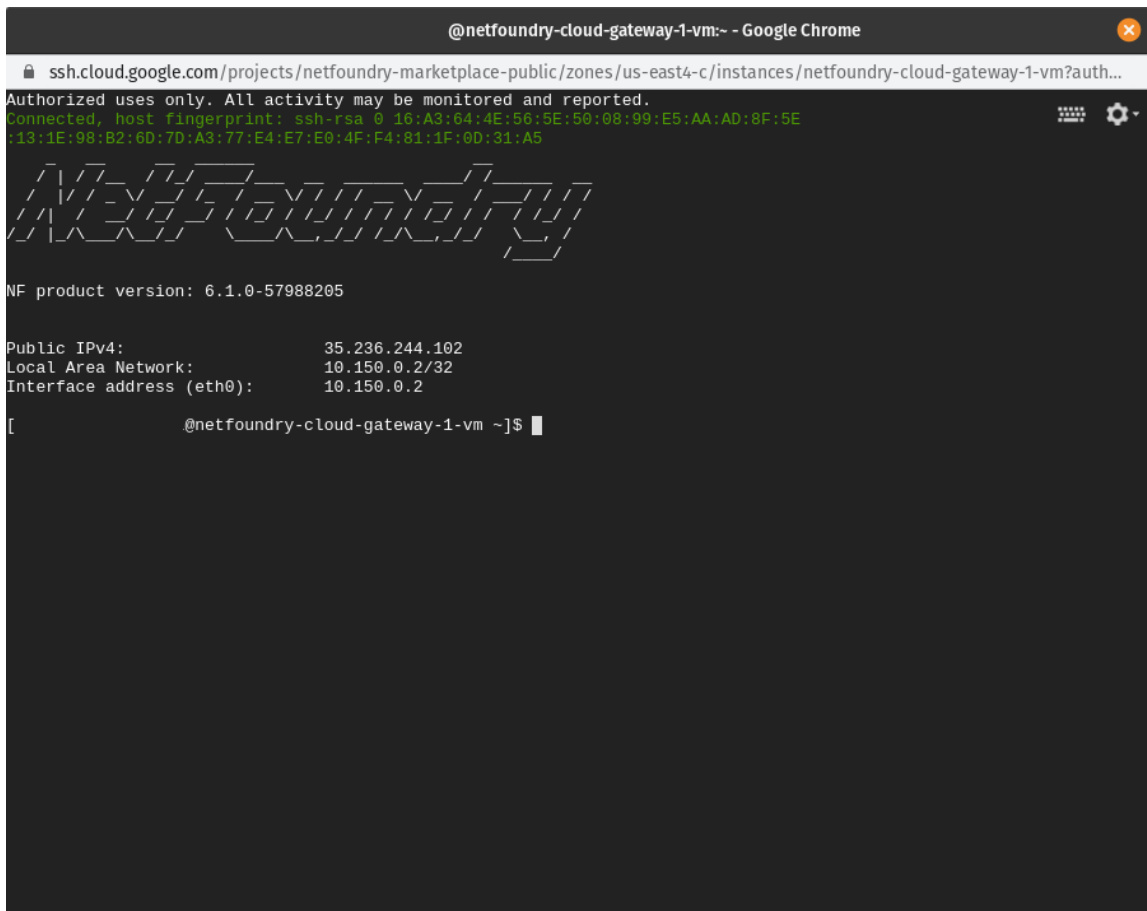
- **Block project wide ssh keys:** (OPTIONAL) If you would like to prevent the project keys from being applied to this instance.
- **Network name / Subnet name:** The network you would like to place your appliance in.
- **Firewall:** (OPTIONAL) If you would like to allow ssh access to your instance, 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 be 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"

The screenshot displays the Google Cloud Platform console for a NetFoundry Cloud Gateway deployment. The top navigation bar shows the project name 'netfoundry-marketplace-public'. The main content area is divided into two panes. The left pane shows a tree view of the deployment resources, including the gateway instance and its associated VM instance. The right pane provides detailed information about the 'NetFoundry Cloud Gateway' solution, including its instance details (name, zone, machine type) and a 'Get started with NetFoundry Cloud Gateway' section. This section includes a dropdown menu for 'SSH' and 'Suggested next steps' such as 'Register the Gateway', 'Open TCP port 22 traffic', and 'Assign a static external IP address to your VM instance'. Each step includes a brief description and a terminal command snippet. The bottom of the right pane contains links for 'Documentation', 'Support', and 'Template properties'.

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.



```
@netfoundry-cloud-gateway-1-vm:~ - Google Chrome
ssh.cloud.google.com/projects/netfoundry-marketplace-public/zones/us-east4-c/instances/netfoundry-cloud-gateway-1-vm?auth...
Authorized uses only. All activity may be monitored and reported.
Connected, host fingerprint: ssh-rsa 0 16:A3:64:4E:56:5E:50:08:99:E5:AA:AD:8F:5E:13:1E:90:B2:6D:7D:A3:77:E4:E7:E0:4F:F4:81:1F:0D:31:A5

NF product version: 6.1.0-57988205

Public IPv4:          35.236.244.102
Local Area Network:  10.150.0.2/32
Interface address (eth0): 10.150.0.2

[ @netfoundry-cloud-gateway-1-vm ~]$
```

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

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

Setup is complete.