Bastion Replacement Removal

Overview

What is a Bastion Host?

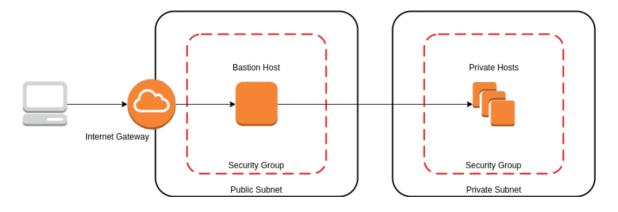
A bastion host is a server whose purpose is to provide access to a private network from an external network, such as the Internet. Because of its exposure to potential attack, it's important to lock this down as tightly as possible.

How can NetFoundry Help?

Deploying a bastion host setup with NetFoundry is more secure! Why? Because the bastion doesn't need to be directly accessible from outside networks. It only needs outbound access & can reside in either public or private networks.

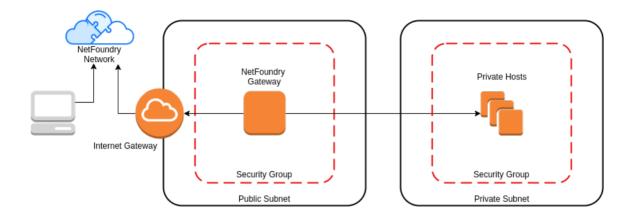
Solution Architecture

Standard Bastion Setup

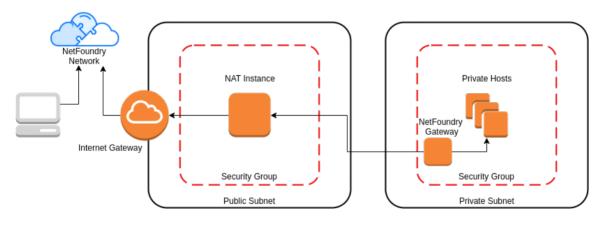


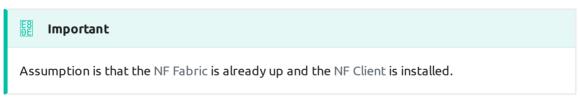
Netfoundry

Public



Private



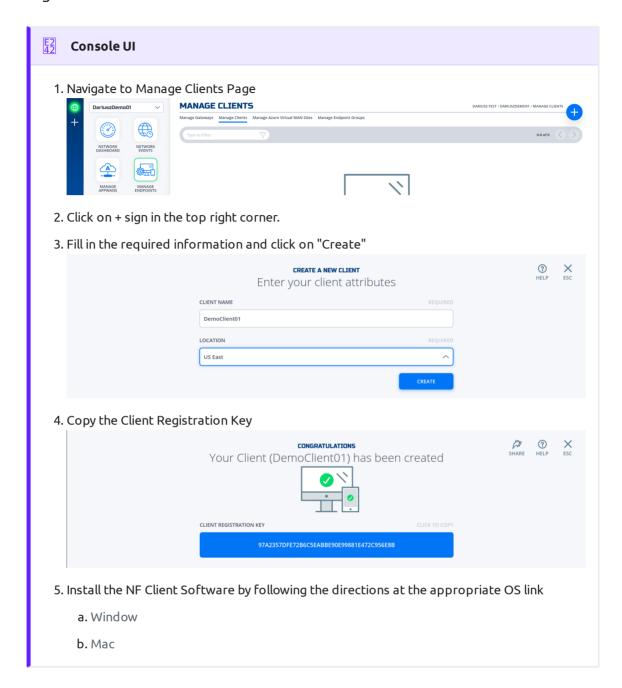


Implement Through NF Web Console UI

Create and install NF Client

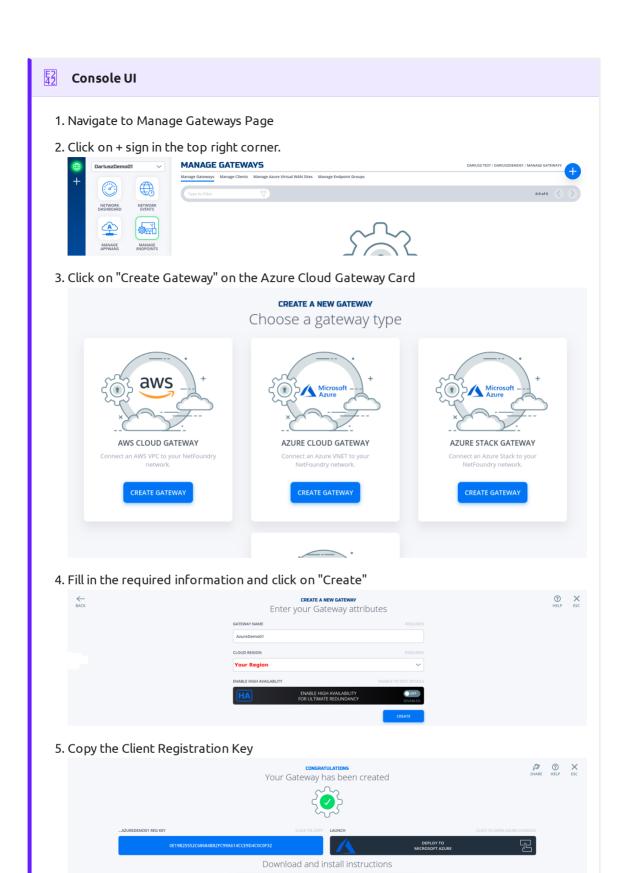
This section will guide a user through the steps on how to create a client in the NF Console UI. Then, it will provide links to Guides on how to install the

NetFoundry Client Software for Windows and MAC Clients, including the registration with the NF Network Fabric.



Create and Deploy NF Azure Gateway

This section will guide a user through the steps on how to create a NF Manage Gateway in the NF Console UI and install it in the Azure vNet.

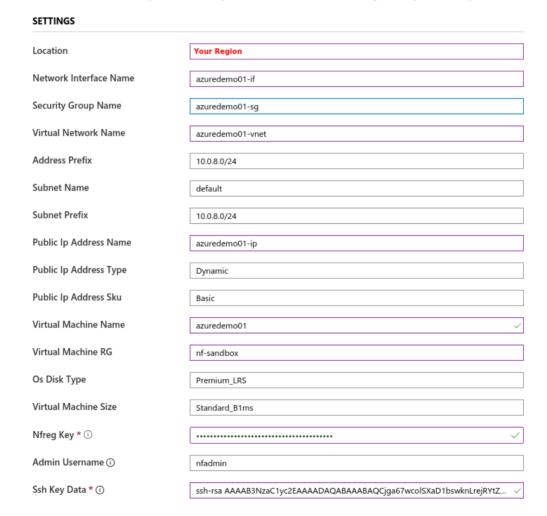


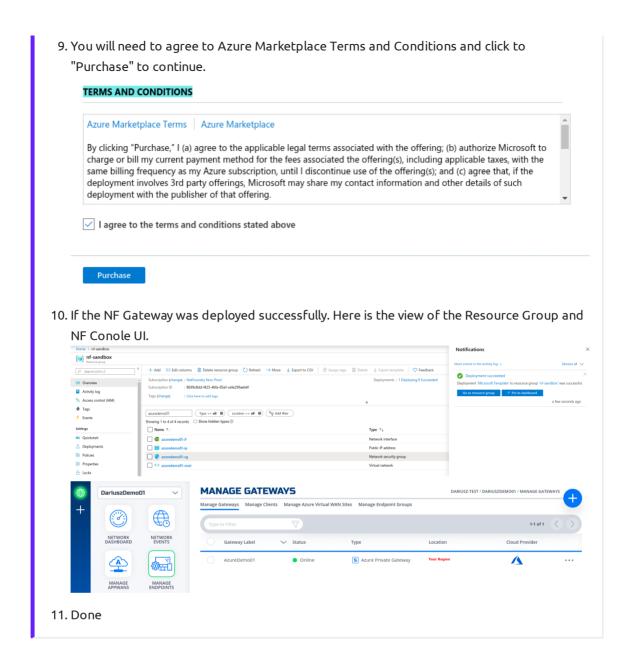
6. Click on "Deploy to Microsoft Azure". It will take you to the Azure Portal and ask you for your login credentials.

7. You will be presented with the template that needs to be filled. The first section is the Basics regarding your Subscription and Resource Group this gateway will be deployed in.

BASICS Subscription * Resource group * Create new Location * (US) East US

8. The second section related to resources associated with this gateway. e.g. vm name, ip address space, security groups, etc. you will paste the registration key copied in step 5. You will also need the public ssh key to use for access to this gateway remotely.





Create IP Network Service

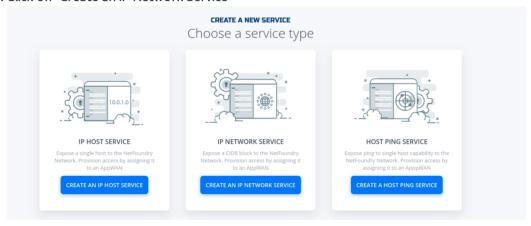
This section will guide a user through the steps on how to create a NF Service.



- 1. Navigate to Manage Services Page under Manage Appwans
- 2. Click on + sign in the top right corner.



3. Click on "Create an IP Network Service"



 $_{
m 4.}$ Fill in the required information for the Network your wanting to access. CREATE A NEW IP NETWORK SERVICE Enter your service attributes SERVICE NAME access-to-10.0.0.0/24 GATEWAY AWS-us-east-1-Gateway01 NETWORK ADDRESS 10.0.0.0/24 INTERCEPT ADDRESS 10.0.0.0/24 PORT INTERCEPT MODE Specific Ports SPECIFY INTERCEPT PORTS AND RANGES SPECIFY EXCLUDED INTERCEPT PORTS AND RANGES Example: 1271, 1800-1871 ADVANCED OPTIONS ADVANCED OPTIONS **Important** Please make sure the service you want to access is behind the gateway you specify here. 5. If successfully, the service is green. MANAGE SERVICES Manage AppWANS Manage Services NETWORK EVENTS

> MANAGE ENDPOINTS

Create AppWan

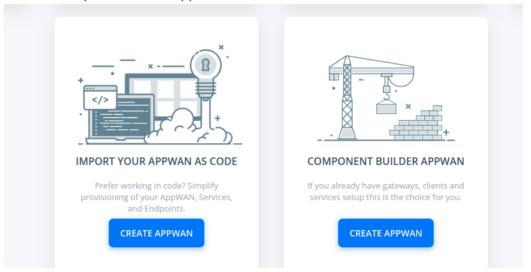
This section will guide a user through the steps on how to enable service connectivity to users by creating an appwan.



- 1. Navigate to Manage AppWANS Page under Manage Appwans
- 2. Click on + sign in the top right corner.



3. Click on "Component Builder Appwan"



4. Move the desired client (e.g. DemoClient01) from "Available" Clients to "Selected" Endpoints. Move the desired service (e.g. DemoServiceSsh) from "Available" to "Selected"

Services. CREATE A NEW APPWAN Choose from existing components, or add new ones 1 APPWAN NAME DemoAppWan 2 ADD CLIENTS, GATEWAYS, OR ENDPOINT GROUPS ADD NEW 🕕 SELECTED ENDPOINTS AVAILABLE GROUPS DemoClient01 ADD NEW 🕕 AVAILABLE CLIENTS AVAILABLE GATEWAYS ADD NEW 🕕 AzureDemo01 3 ADD SERVICES Search for a Service AVAILABLE SERVICES ADD NEW 🜐 SELECTED SERVICES DemoServiceSsh

