# 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



Assumption is that the NF Fabric is already up and the NF Client is installed.

# 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.

Console UI		
<ul> <li>1. Navigate to Manage Clien</li> <li>Image are a second and the second area of the second a</li></ul>	right corner.	DABUUZ TEST / DABUSZDEMOSI / MANAGE CLIENTS
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4. Copy the Client Registrati	CONGRATULATIONS Your Client (DemoClient01) has been created Interestration Key VEREGISTRATION KEY CLICK TO COPY	SHARE HELP ESC
5. Install the NF Client Softw a. Window b. Mac	vare by following the directions at the appro	priate OS link

#### 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.

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Your Resource Group Name	~
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 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.

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Location	Your Region	
Network Interface Name	azuredemo01-if	
Security Group Name	azuredemo01-sg	
Virtual Network Name	azuredemo01-vnet	
Address Prefix	10.0.8.0/24	
Subnet Name	default	
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Public Ip Address Type	Dynamic	
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Virtual Machine RG	nf-sandbox	
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9. You will need to agree to Azure Marketplace Terms and Conditions and click to "Purchase" to continue.

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#### **Create IP Network Service**

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



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Demo01      MANAGE SERVICES     / //MANAGE SERVICE     // //MANAGE SERVICE	If successfully, the	e service is green.			
Type to Filter	Demo01	MANAGE SERVICES Manage AppWANS Manage Services		/	/ MANAGE SERVICES
NETWORK NETWORK	+				

#### Create AppWan

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

	Choose from	m existing co	oamo	nents, or add new ones	
1	APPWAN NAME			REQUIRED	
	DemoAppWan				
2	ADD CLIENTS, GATEW	AYS, OR ENDPOINT	GROUP	s	
	Search for Endpo	bints			
AVAILABLE GROUPS		ADD NEW 🕂		SELECTED ENDPOINTS	
				DemoClient01	
AVAILABLE CLIENTS					
			$\stackrel{\leftarrow}{\rightarrow}$		
AVAILABLE GATEWAY	ſS	ADD NEW 🛨			
AzureDemo01					
3	Search for a Serv	vice			
AVAILABLE SERVICES		ADD NEW 🕂		DemoServiceSsh	
			$\leftarrow$		
			$\rightarrow$		
					CREATE

5. Click on "Create".	
Your AppWAN has l	YOUR APPWAN SUMMARY been created! A network summary is below.
What's next? Finish conne	cting your network by registering new clients and gateways.
NEW CLIENTS Share Client Registration In	nfo NEW GATEWAYS Tap to Launch and Register
<ol> <li>APPWAN NAME DemoAppWan 2</li> <li>ENDPOINTS</li> </ol>	
DemoClient01 [7]	
GATEWAYS	REGISTER NEW GATEWAYS
3 SERVICES SERVICE DEFINITIONS DemoServiceSsh (?)	
4 ENDPOINT GROUPS	
Want to add ar with the same	nother environment TAP TO CLONE
6. Done	