



Nubeva POC Environment for Azure

v 1.0

[21 January 2018]

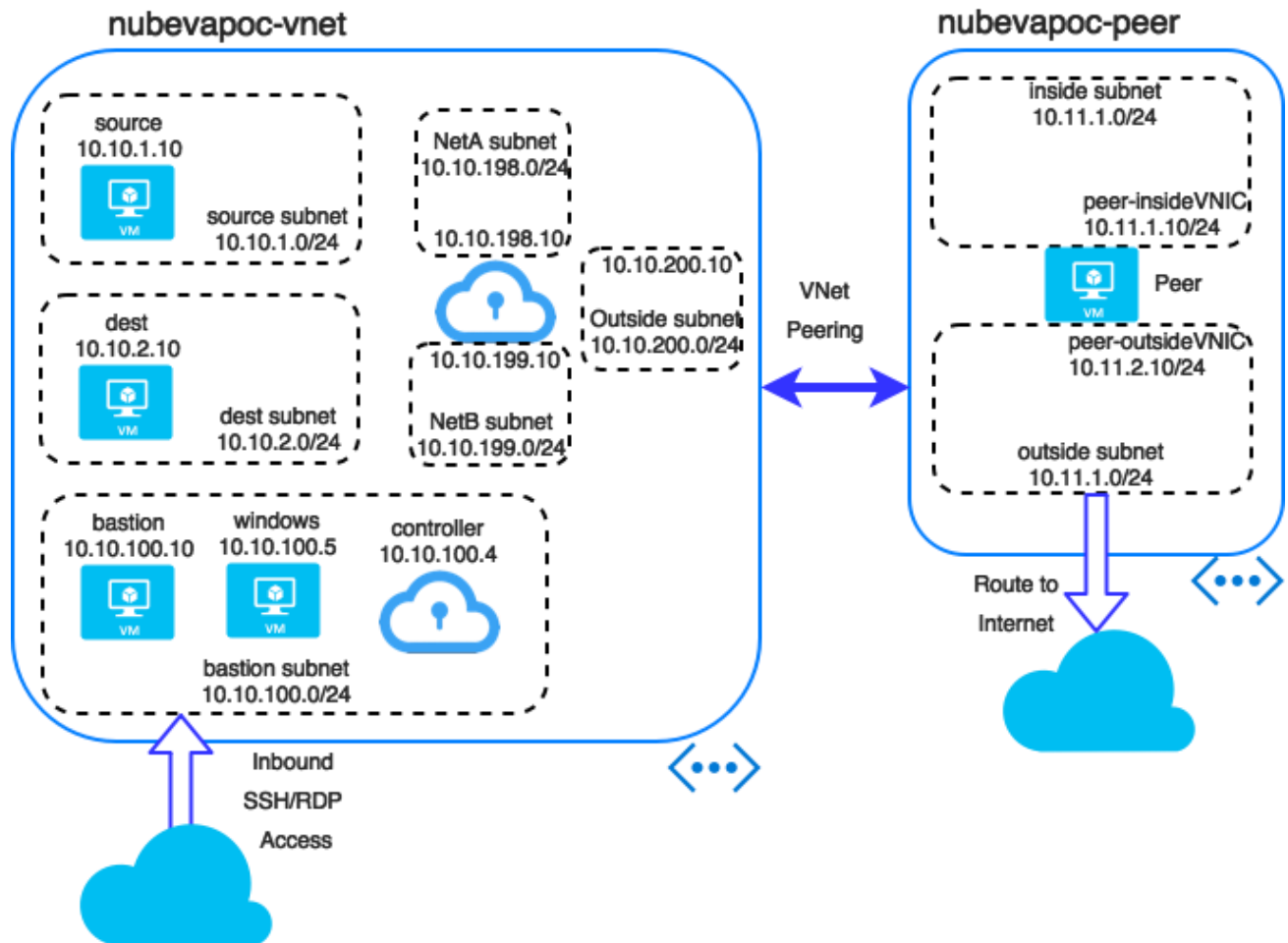
Confidential, Nubeva, Inc.

Author: Erik Freeland
Title: Dir of Customer Engineering
Email: erik@nubeva.com

Environment Details

In order to test the Nubeva solution, it is important to ensure that the testing environment contains all the elements necessary for a complete test. The Nubeva-provided environment presented below contains every element needed to test all the features of the Nubeva Stratus Edge.

In our experience, most customers will initially test the Nubeva solution is a sandbox. So, the ability to quickly create the same sandbox every time is critical. The scripts below will build the environment depicted below.



1. There are 2 virtual networks configured. Nubevapoc-vnet is where all the StratusEdge installation and configuration happens. The nubevapoc-peer virtual net (VNet) is to demonstrate connectivity to a peered virtual network that could contain express routes, VPN gateways, security controls, etc.
2. The nubevapoc-vnet has 3 subnets. The first, source, is where the source host resides. This host is configured in the Nubeva StratusEdge as the default "SourceHosts", which defines what traffic should be mirrored. Additional hosts can be added as desired.
3. The "dest" subnet has 1 host, called dest. This represents a target host that resides inside the same vnet.
4. The "bastion" subnet contains 2 hosts, one is also called bastion and the other is windows. These are the only connection points into this environment from the internet. "Bastion" is a Linux host and is where all mirrored traffic is sent by default. The "windows" host is a Win 2016 server instance that provides a GUI interface installing the controller. Only SSH & RDP access are allowed from the internet to the bastion subnet.

NOTE: Because the password is preconfigured, Nubeva suggests that you replace this bastion with a more secure access method after initial testing.

5. All routing inside this vnet is default with one exception. The source subnet has all default route traffic (0.0.0.0/0) routed to the inside address of the peer host, which is located in the nubevapoc-peer vnet.
6. The nubevapoc-vnet simulates an Azure environment with security appliances that are located in another virtual network. The host named peer is configured as a router and forwards all traffic from the source subnet ONLY to the internet. (the bastion and destination subnets will connect directly to the internet)
7. The username and password for all hosts in this environment are as follows:
username:nubeva password:G0Nub3va20[]

Installation Details

1. The script is located here:
<https://raw.githubusercontent.com/ejfree/nubevapoc/master/nubeva-poc-install.sh>
2. The script is launched with the following linux/OSX command:
`./nubeva-poc-install.sh -n newresourcegroup -r azureregion`
3. The 2 arguments are required. The first, -n, is the resource group that will be created by the script. The 2nd argument, -r, specifies the Azure region where the resource group will be created. See the readme on github. Additional information on Azure regions can be found here: <https://azure.microsoft.com/en-us/regions/>

Note: Do not use an existing resource group for this script as it could overwrite existing elements.

4. The script will then create the elements in the picture above into the resource group provided. The scripts and Azure templates used are located here:
<https://github.com/ejfree/nubevapoc>