

# Prerequisites for the Hortonworks Lab

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## Pre-requisites for the Hortonworks Lab

In order to prepare for the Hortonworks Lab, some steps can be run ahead of the session to save some time, including:

- Setup of a Twitter API key
- Create a Microsoft Azure Pass Subscription.
- Setup of a HDP 2.5 Sandbox on Microsoft Azure.

The above steps should take less than 30 minutes of your time. If you encounter any issues going through any of these steps, you will receive assistance during the lab to complete them.

### Setup of a Twitter API key

Please follow the instructions at the following link:

<http://www.gabfirethemes.com/create-twitter-api-key/>

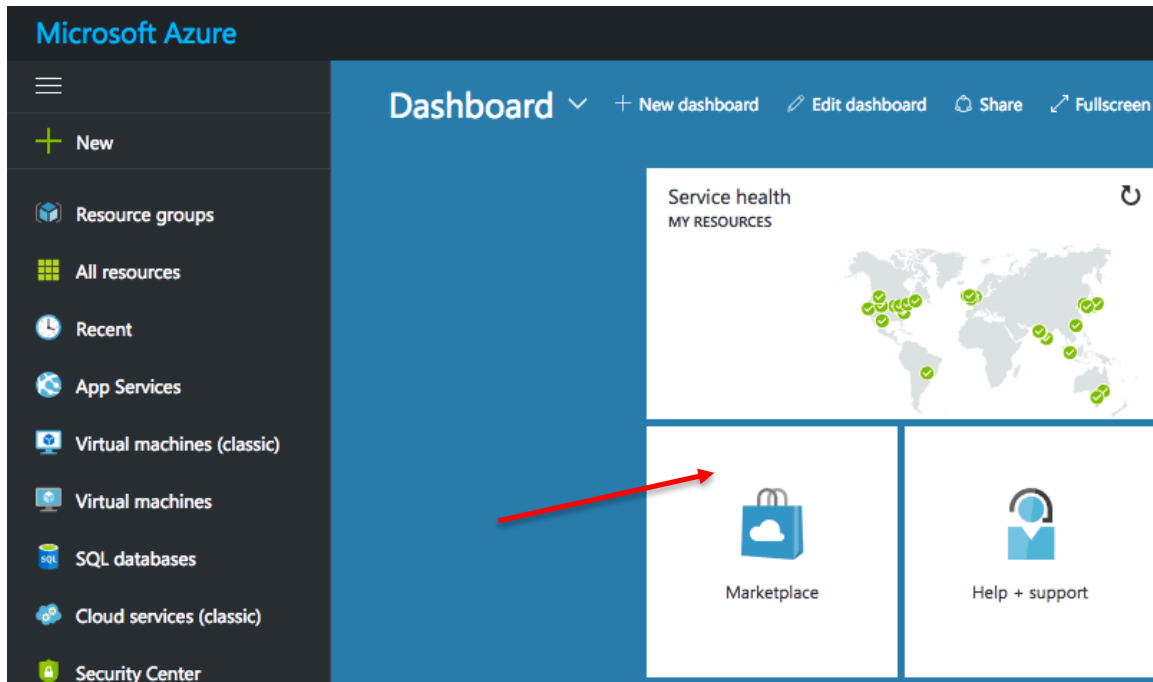
### Create a Microsoft Azure Pass Subscription

In the email containing this attachment, you will be provided a Microsoft Azure Pass. With your Microsoft Azure Pass, please create your Microsoft Azure Account using the following step by step instructions:

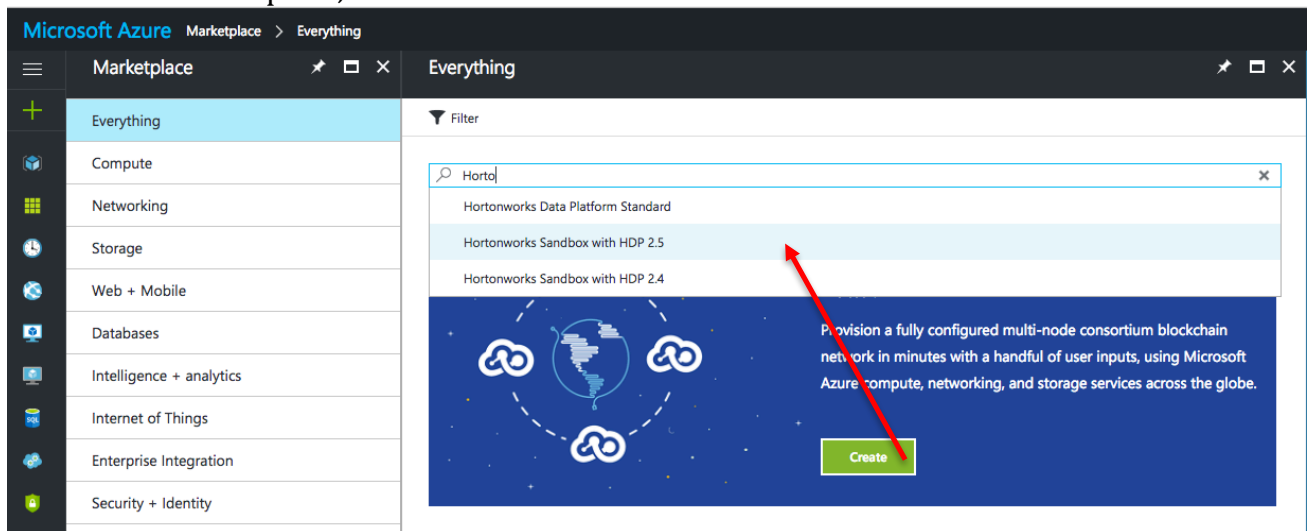
<https://www.microsoftazurepass.com/howto>

## Setup of a HDP 2.5 Sandbox on Microsoft Azure

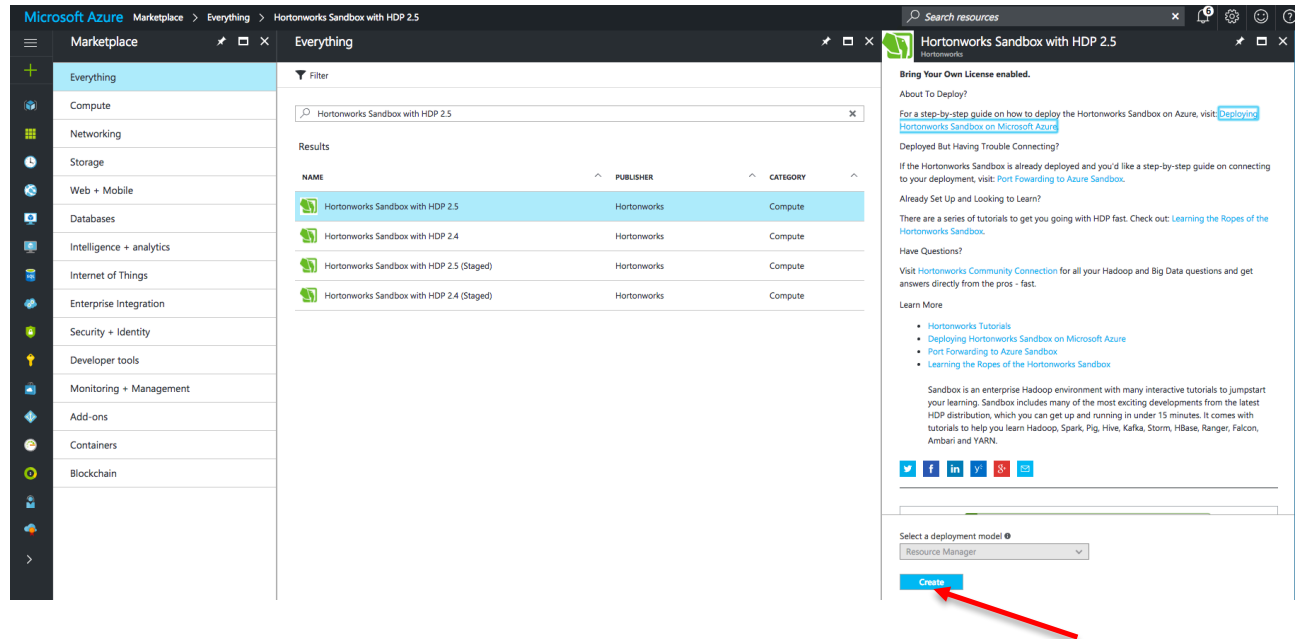
After logging on your Microsoft Azure account using the previous steps, please go to the Microsoft Azure MarketPlace by either clicking on the Marketplace tile on the Dashboard or, if not present, from the list on the component on the left hand-side:



Once in the Marketplace, search for Hortonworks Sandbox with HDP 2.5:



Then, select it and click on Create:



Fill-up the information on the next screen:

- Name: Choose a VM name you can quickly identify. For example, **<initials>-hdp25lab**.
- VM disk type: Choose **HDD**, which is sufficient for the lab environment.
- User name: You can choose a login name which will be used to login to the sandbox VM for ssh sessions. You can choose for example the same login name as the one you used to login to Azure.
- Password: Choose a password 12 characters long with a 1 lower case, 1 upper case, 1 number and 1 special character and **note it down**.
- Subscription: Select your Azure subscription you created previously.
- Resource group: Select Create new, and use as an example **<yourinitials>-rg**.
- Location: Select **Canada East**.

Then, click **OK**.

Microsoft Azure Marketplace > Everything > Hortonworks Sandbox with HDP 2.5 > Create virtual machine > Basics

Create virtual machine

Basics

1 Basics  
Configure basic settings

2 Size  
Choose virtual machine size

3 Settings  
Configure optional features

4 Summary  
Hortonworks Sandbox with HD...

5 Buy

\* Name  
zn-hdp25lab ✓

VM disk type ⓘ  
HDD ▼

\* User name  
zoharn ✓

\* Authentication type  
SSH public key Password

\* Password  
..... ✓

\* Confirm password  
..... ✓

Subscription  
SE ▼

\* Resource group ⓘ  
☒ Create new ☐ Use existing  
zn-rg ✓

Location  
Canada East ▼

OK

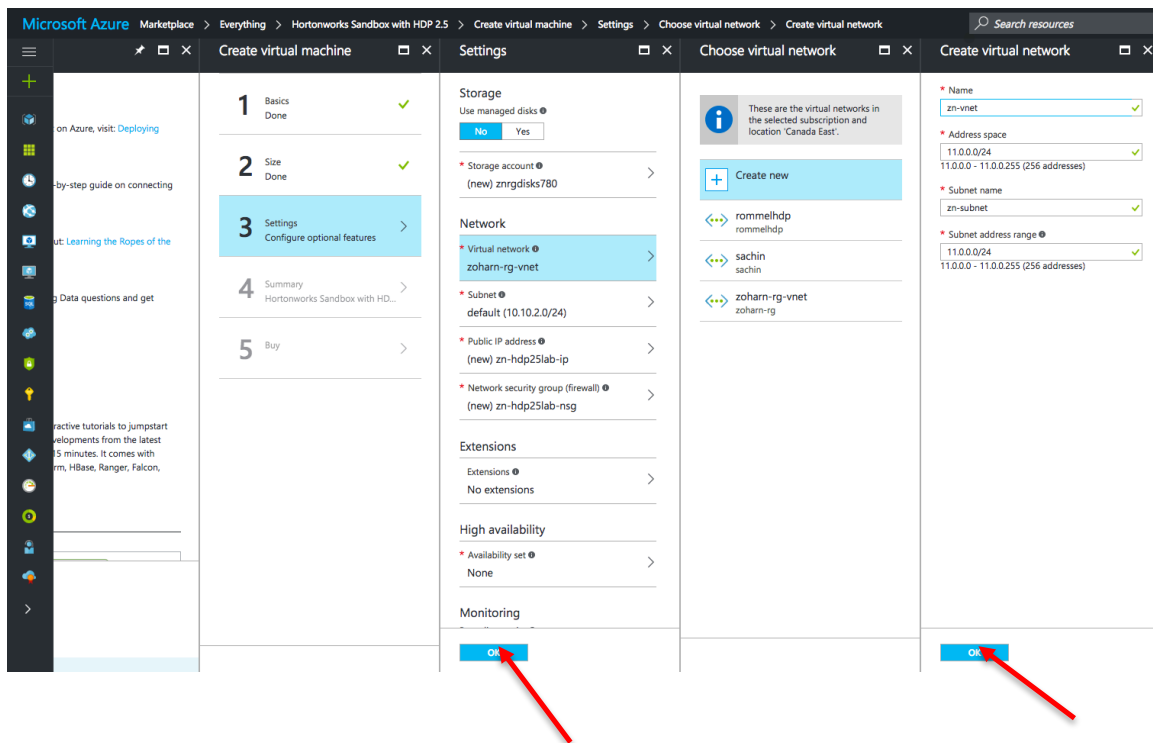
The next step is to choose a size for the VM. Scroll down the different VMs (You may have to click on View all). Please select D11\_V2:

D11_V2 Standard	
2	Cores
14	GB
4	Data disks
4x500	Max IOPS
100 GB	Local SSD
Load balancing	
136.15	
USD/MONTH (ESTIMATED)	

In the settings, you will need to create a Virtual Network, click on Create new:

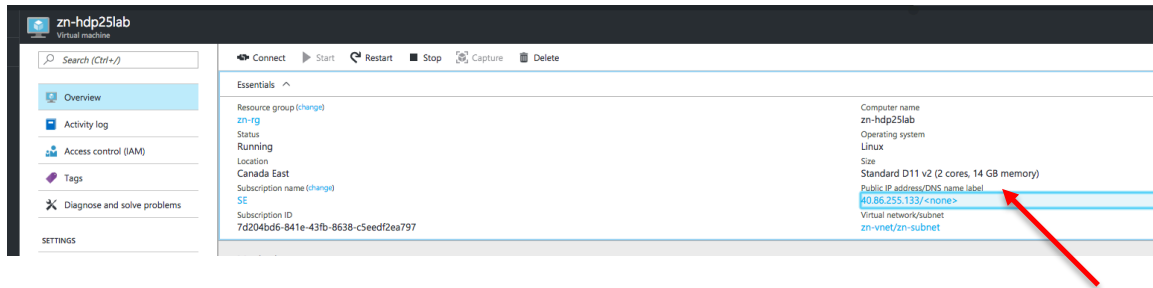
- Name: For example **<your-initials>.vnet**
- Address space: For example, **10.0.0.0/24**
- Subnet name: For example, **<your-initials>-subnet**
- Subnet address range: For example, **10.0.0.0/24**

Then, click OK.

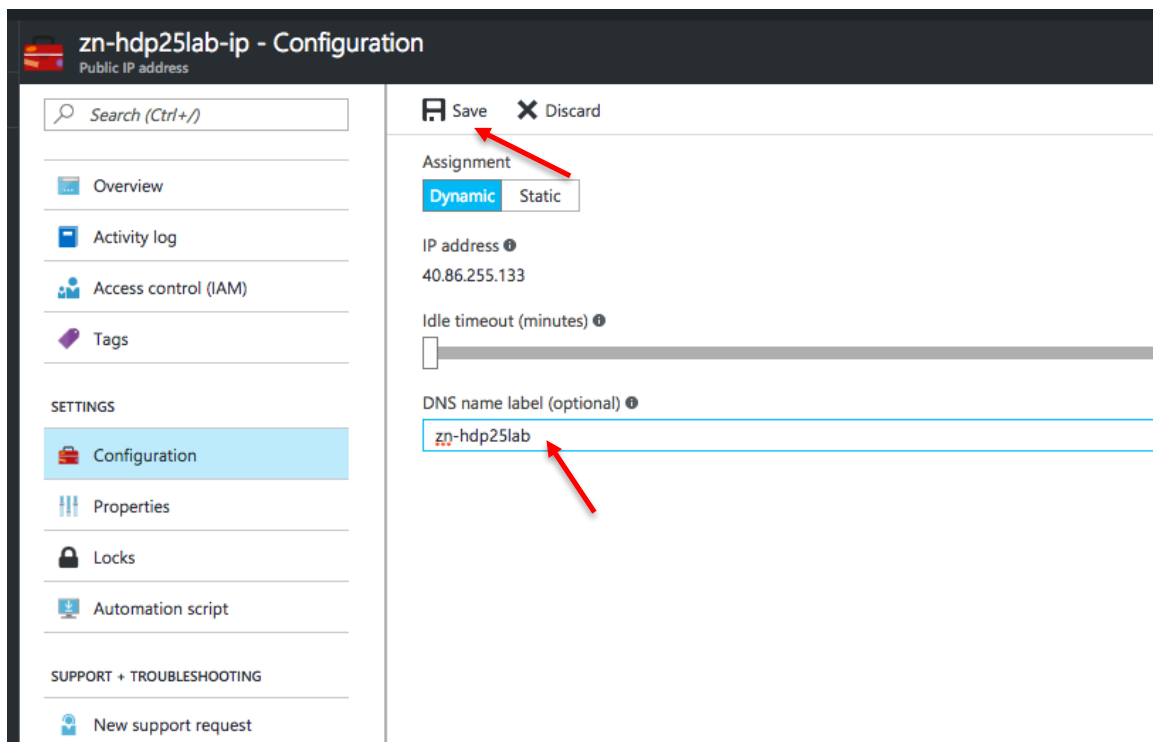


In the Summary tab, just click **OK**. In the Buy tab, click **Purchase**. Wait for the Deployment to complete.

Once the image is deployed, you will see the following Overview dashboard for the VM you just created. Click on the Public IP address/DNS name label:



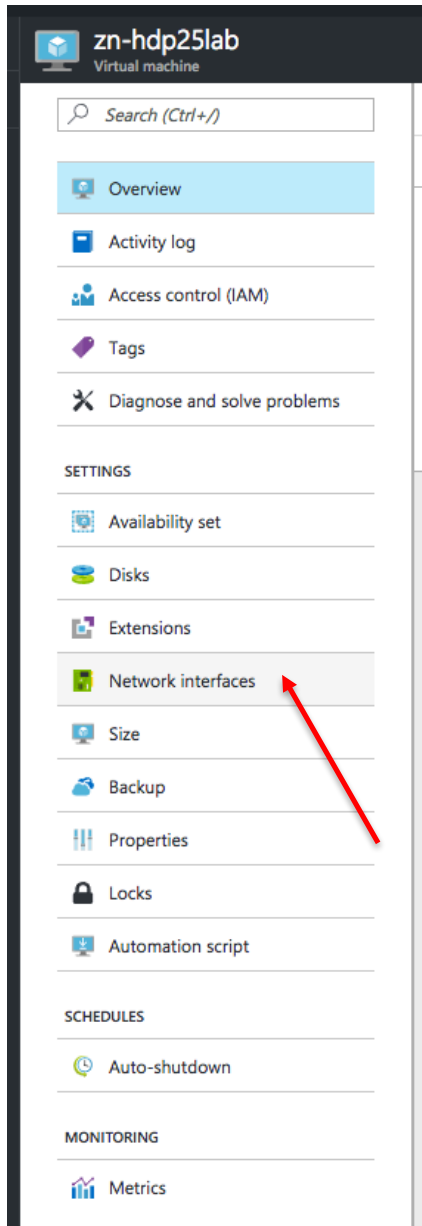
Give it the same name as your VM, for example, **<your-initials>-hdp25lab**. Press enter after entering the field, then click on Save.



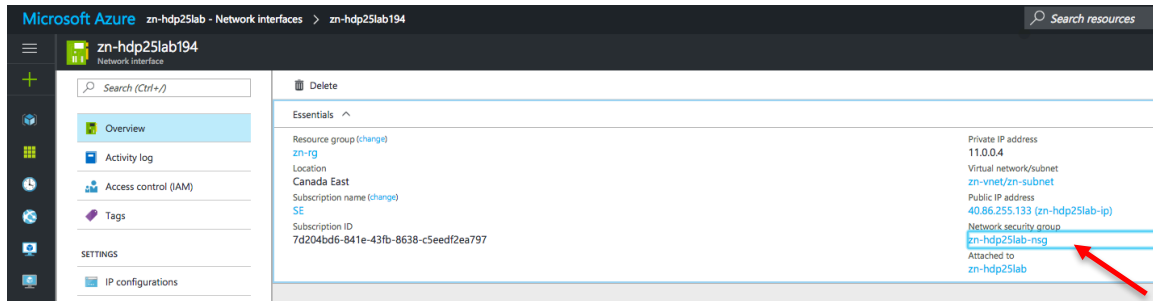
The host name you are going to use for your lab is: **<DNS-name-label>.canadaeast.cloudapp.azure.com**.

You will need this host name to access your VM through ssh or for the various URLs for Hadoop components. Please make a note of your fully qualified host name. This host name will appear on the VM overview dashboard as well, so you can retrieve it later.

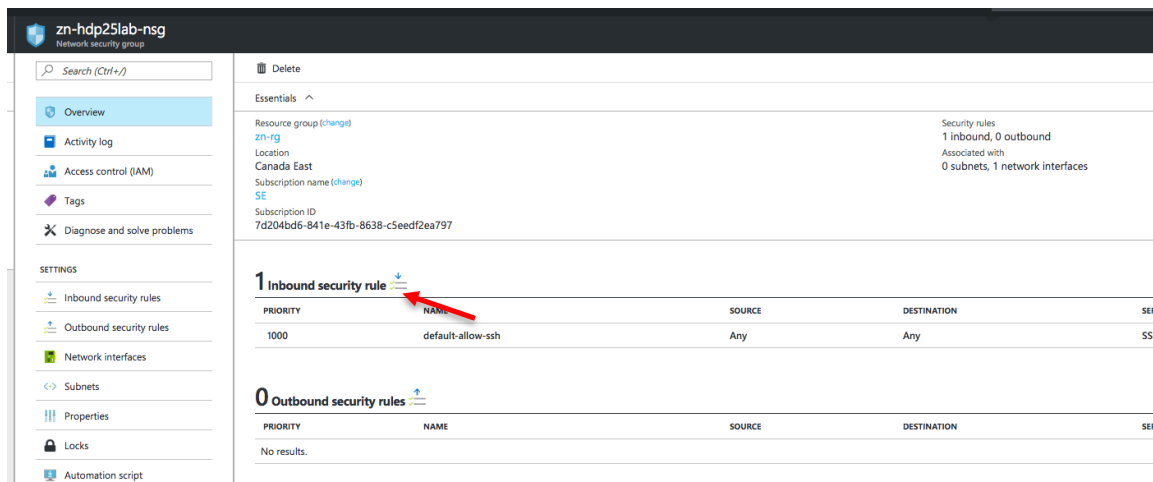
Now, click on the Network interfaces for your VM:



Select the only network interface for your VM, and select the Network security group:



Click on “Inbound security rule”



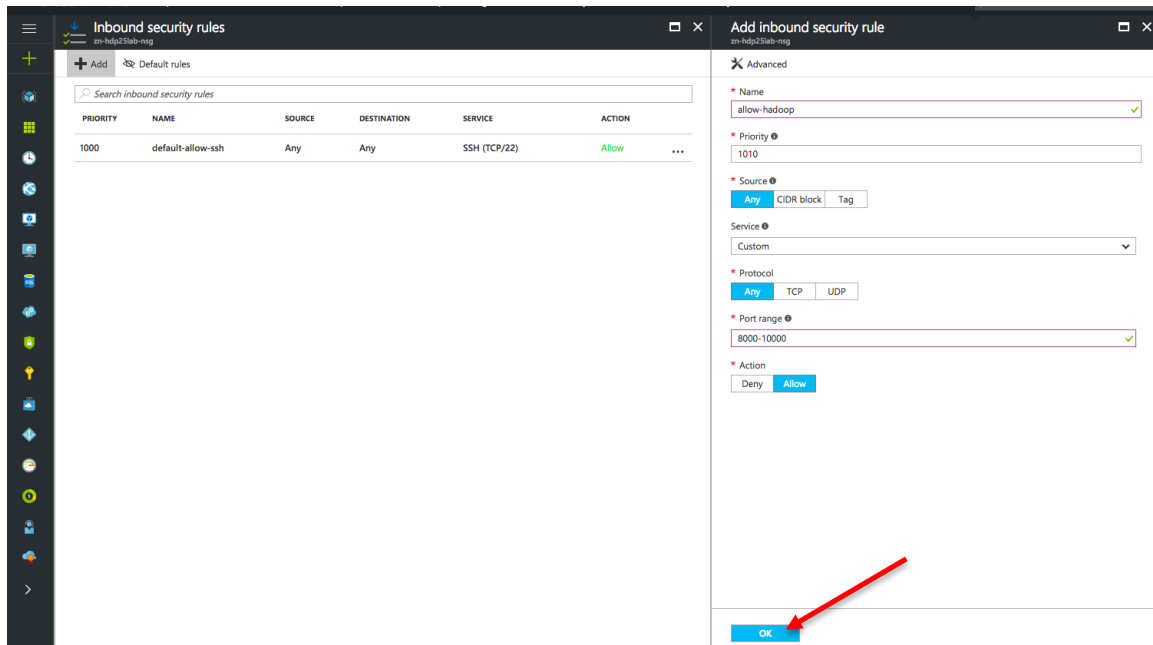
Then, click on Add and enter the following rule:

- Name : **allow-hadoop**
- Priority : Leave default value 1010.
- Source : Leave default value Any
- Service : Leave default value Custom.
- Protocol: Leave default value Any
- Port range: **8000-10000**
- Action: Leave default value Allow

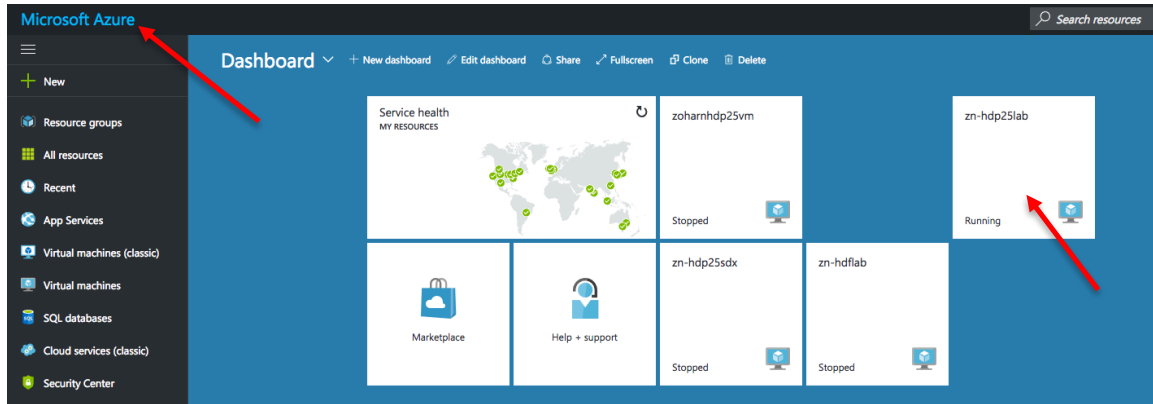
Then, click OK.

Given the open firewall rules, **it is important that you do not use this VM to store any of your personal or corporate data.** These VMs are supposed to be discarded after the lab.





If you are preparing this VM in advance, **it is important that you shut it down so that it doesn't consume all your Azure subscription credit.** Click on Microsoft Azure on the top right hand side to go back to your main Azure dashboard, then click on the tile corresponding to the running VM to bring you to the VM Dashboard:



Click on Stop :

