Practical 1: Creating a Virtual Machine

Objectives

In this first practical lab, we will:

- Explore the Azure portal
- Create a Virtual Machine
- Install and configure the Hortonworks Sandbox
- Test it works via a Web browser
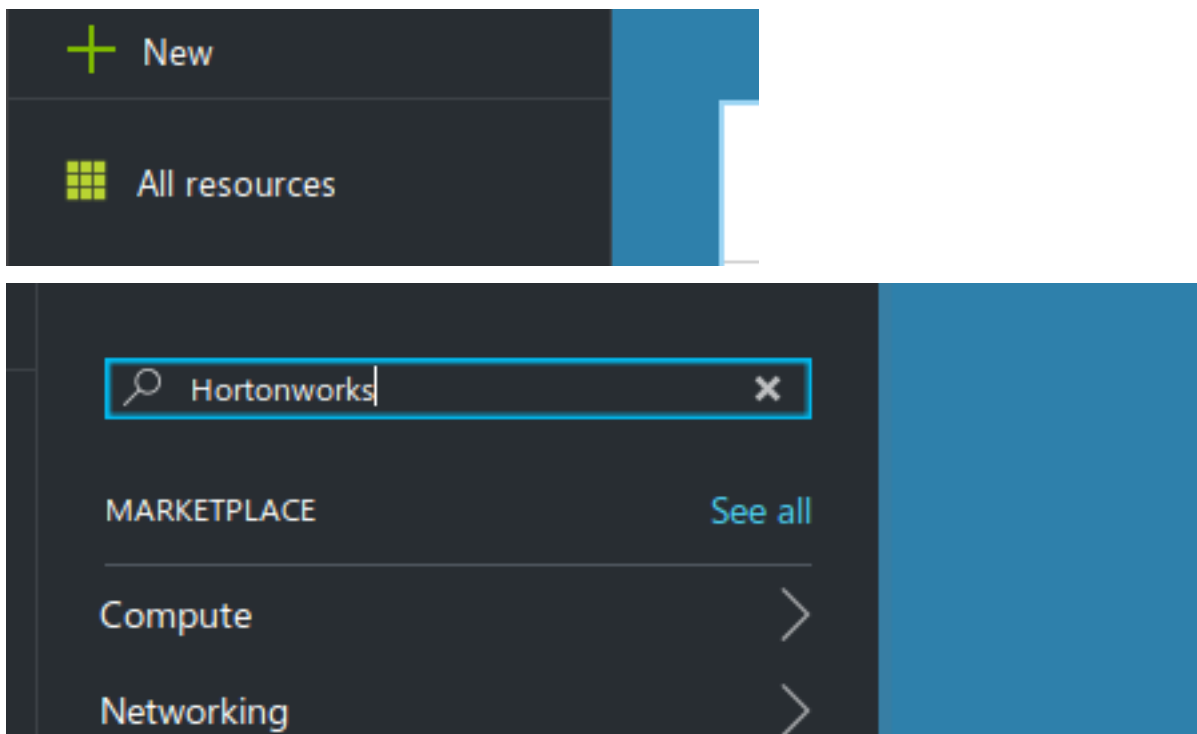- Confirm access to the Zeppelin Notebook server

Exercise 1: Creating the VM

Access the Azure portal at: http://portal.azure.com and sign in using the account details you have configured with your promotional code.

We are going to create a virtual machine based on a template- the Hortonworks Sandbox. This will preconfigure a Linux virtual machine, Apache Hadoop and Apache Spark big data tools and a range of other components including **Zeppelin Notebook** which makes interacting with Spark quite straightforward.

To create a Virtual Machine, follow these steps:

1.From the portal, click [**+ NEW**] then choose **Search the marketplace** and then enter **Hortonworks Sandbox**:

2.At the next screen, you will be prompted to choose the correct Hortonworks template. Select **Hortonworks Sandbox with HDP 2.4**

and at the bottom right hand of the page, choose **Resource Manager** from the *Select a deployment model* section.

2. You will be prompted to enter the password. Ambari server will restart.

Select a deployment model ⓘ

Resource Manager ⌄

Create

3.At the next screen you will start the configuration process :

On **Tab 1: 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

HortonworksTest ✓

VM disk type ⓘ

HDD ⌄

* User name

sparkuser

* Authentication type

SSH public key Password

* Password

••••••••••••

* Confirm password

••••••••••••

Subscription

Free Trial ⌄

* Resource group ⓘ

◉ Create new   ○ Use existing

HortonWorksTestRG ✓

Location

East US ⌄

OK

You will need to:

- enter a suitable name for the sandbox
- change **VM disk type** to SSD (it's a bit cheaper)
- set username to **sparkuser** and enter a suitable password
- make sure that you select **Create New** in the Resource group section and give it a suitable name
- Click [**OK**]

Make sure you remember the username and password. Keep them somewhere safe

On **tab 2: Size**

Choose the option **DS2_V2 standard** and click [**Select**]

Finally, on **tab 5: Buy** click [**Purchase**]. All the options are covered by your credits.

5.The final screen will start to create your VM. The process usually takes around 5 minutes.

After the process has completed, you will be presented with a confirmation screen like this one:

Make sure you note the **Public IP address**. You will need this to access features of the Hortonworks Sandbox.

Exercise 2: Logging into the Zeppelin Notebook for the first time

After the VM has been created, it will have been given a unique IP address.

For example, if your ip address is **123.12.121.14**

You can access your Zeppelin Notebook through your browser at **http://123.12.121.14:9995**