# 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

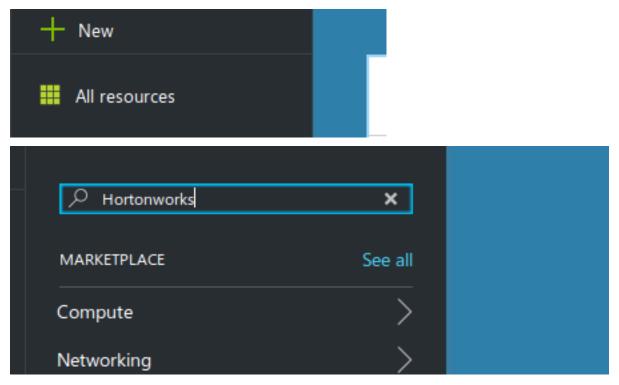
### Exercise 1: Creating the VM

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

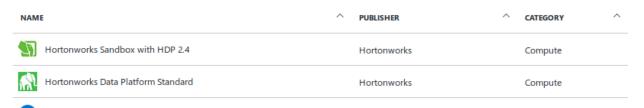
We are going to create a virtual machine based on a template- the Hortonworks Sandbox. This will preconfigure a Linux virtual machine, Apache Hadoop and Apache Spark big data tools and a range of other components including **Zeppelin Notebook** which makes interacting with Spark quite straightforward.

To create a Virtual Machine, follow these steps:

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

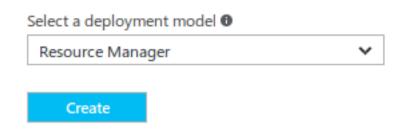


2.At the next screen, you will be prompted to choose the correct Hortonworks template. Select **Hortonworks** Sandbox with HDP 2.4



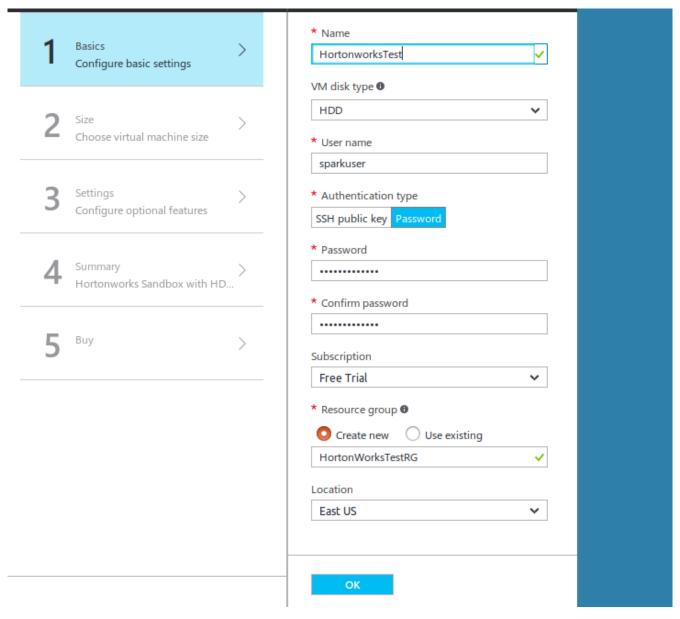
and at the bottom right hand of the page, choose **Resource Manager** from the Select a deployment model section.

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



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

On Tab 1: Basics

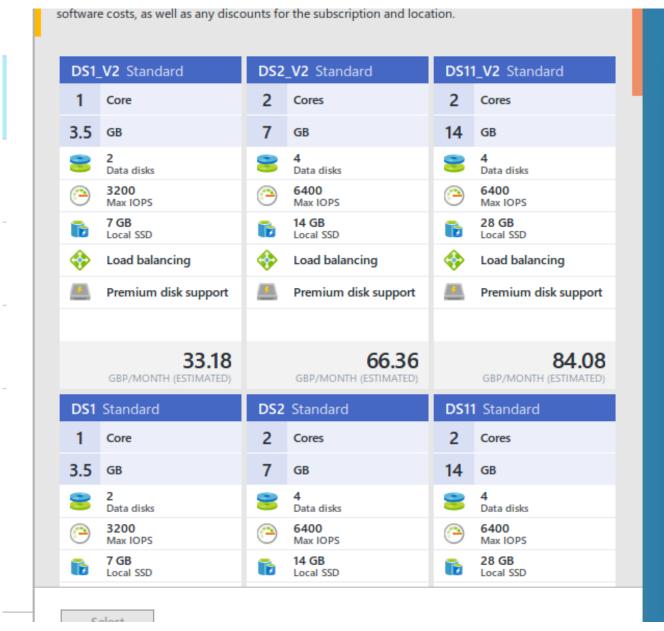


#### You will need to:

- 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]

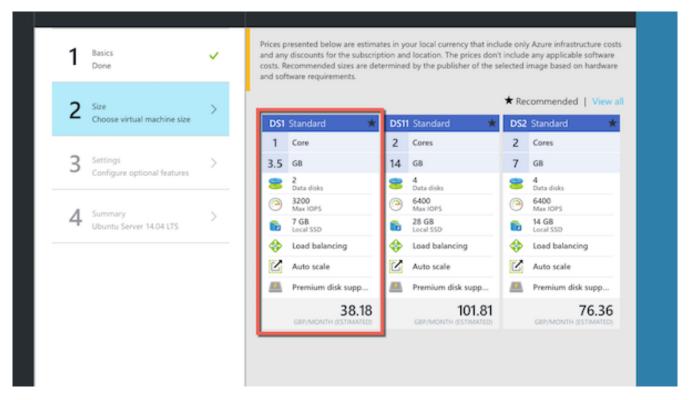
### Make sure you remember the username and password. Keep them somewhere safe

On tab 2: Size

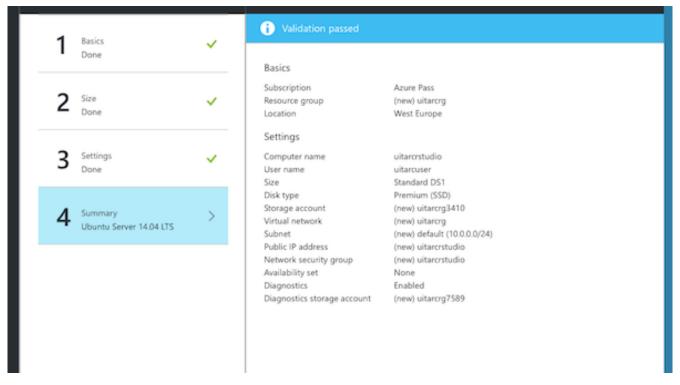


Choose the option DS2\_V2 standard and click [Select]

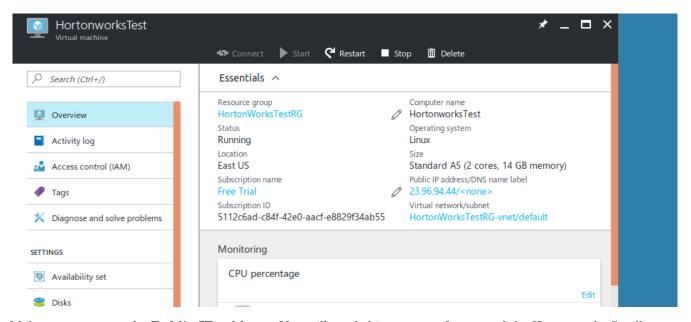
Finally, on tab 5: Buy click [Purchase]. All the options are covered by your credits.



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