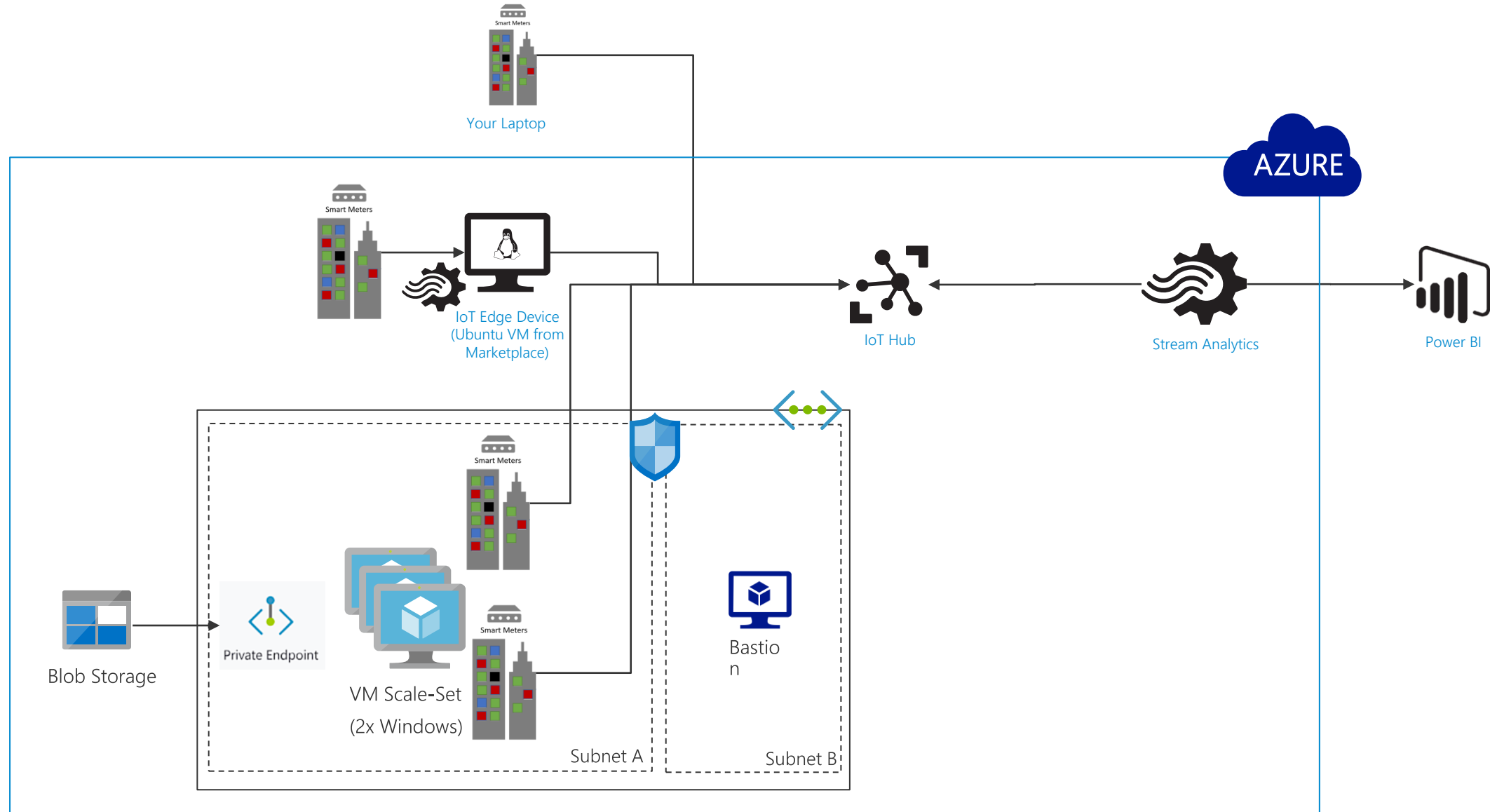


Prerequisites

Install Guide					
Computer with Windows 10 and active Azure Subscription					
Task 1: Install Visual Studio	Visual Studio 2019				
	Version 16.4+				
Task 2: Install Visual Studio Code	Download Visual Studio Code				
	Azure IoT Tools (vsciot-vscode.azure-iot-tools) by Microsoft				
	C# for Visual Studio Code (ms-vscode.csharp) by Microsoft				
Task 3: Install Azure CLI	Install Azure CLI 2.0				
	Get started with Azure CLI 2.0				
	az extension add --name azure-cli-iot-ext				
Task 4: Install Service Bus Explorer	https://github.com/paolosalvatori/ServiceBusExplorer/releases				
Task 5: Install PowerBI Desktop	https://www.microsoft.com/en-us/p/power-bi-desktop/9ntxr16hnw1t?activetab=pivot:overviewtab				
Task 5: Windows OpenSSH Client	Add-WindowsCapability -Online -Name OpenSSH.Client				

High Level Architecture



Hands On Lab Options

Advanced Labs - PaaS

0

Get the unfinished code:

<https://github.com/microsoft/MCW-Internet-of-Things/tree/master/Hands-on%20lab/lab-files/starter-project>

Get the finished code:

<https://github.com/dschenzer/internetofthingscloudworkshop/tree/master/Hands-on%20lab/lab-files/starter-project>

1

Create a Smart Meter Simulator, Connect to IoT Hub, Visualize Data

Link: <https://github.com/dschenzer/internetofthingscloudworkshop/blob/master/Hands-on%20lab/HOL%20step-by-step%20-%20Internet%20of%20Things.md>

- [Exercise 1: IoT Hub provisioning](#)
- [Exercise 2: Completing the Smart Meter Simulator](#)
- [Exercise 3: Hot path data processing with Stream Analytics](#)

2

Deploy and IoT Edge Device with Modules

Link: https://microsoftlearning.github.io/AZ-220-Microsoft-Azure-IoT-Developer/Instructions/Labs/LAB_AK_11-introduction-to-azure-iot-edge.html

Advanced with Transparent Gateway (certificate validation required):

https://microsoftlearning.github.io/AZ-220-Microsoft-Azure-IoT-Developer/Instructions/Labs/LAB_AK_12-setup-an-iot-edge-gateway.html

3

Create virtual machine scale set

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/quick-create-portal#create-virtual-machine-scale-set>

Install applications in virtual machine

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/tutorial-install-apps-powershell>