

**Hands-on Lab Instructions**

**Session 3282**

**Integrating IBM Watson IoT Platform and IBM Blockchain**

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**Table of Contents**

[Overview 3](#_Toc464851887)

[Section 1 – Setup Bluemix 4](#_Toc464851888)

[Signup for Bluemix – New User 4](#_Toc464851889)

[Log-In Bluemix – New User 5](#_Toc464851890)

[Create Bluemix organization – New User 5](#_Toc464851891)

[Create Bluemix space – New User 6](#_Toc464851892)

[Create Bluemix space – New User 7](#_Toc464851894)

[Create IBM Watson IoT Platform Organization 7](#_Toc464851895)

[Create IBM Watson IoT Blockchain Service 10](#_Toc464851896)

[**We Value Your Feedback!** 13](#_Toc464851897)

[**Acknowledgements and Disclaimers** 14](#_Toc464851898)

# 

# Overview

# Section 1 – Setup Bluemix

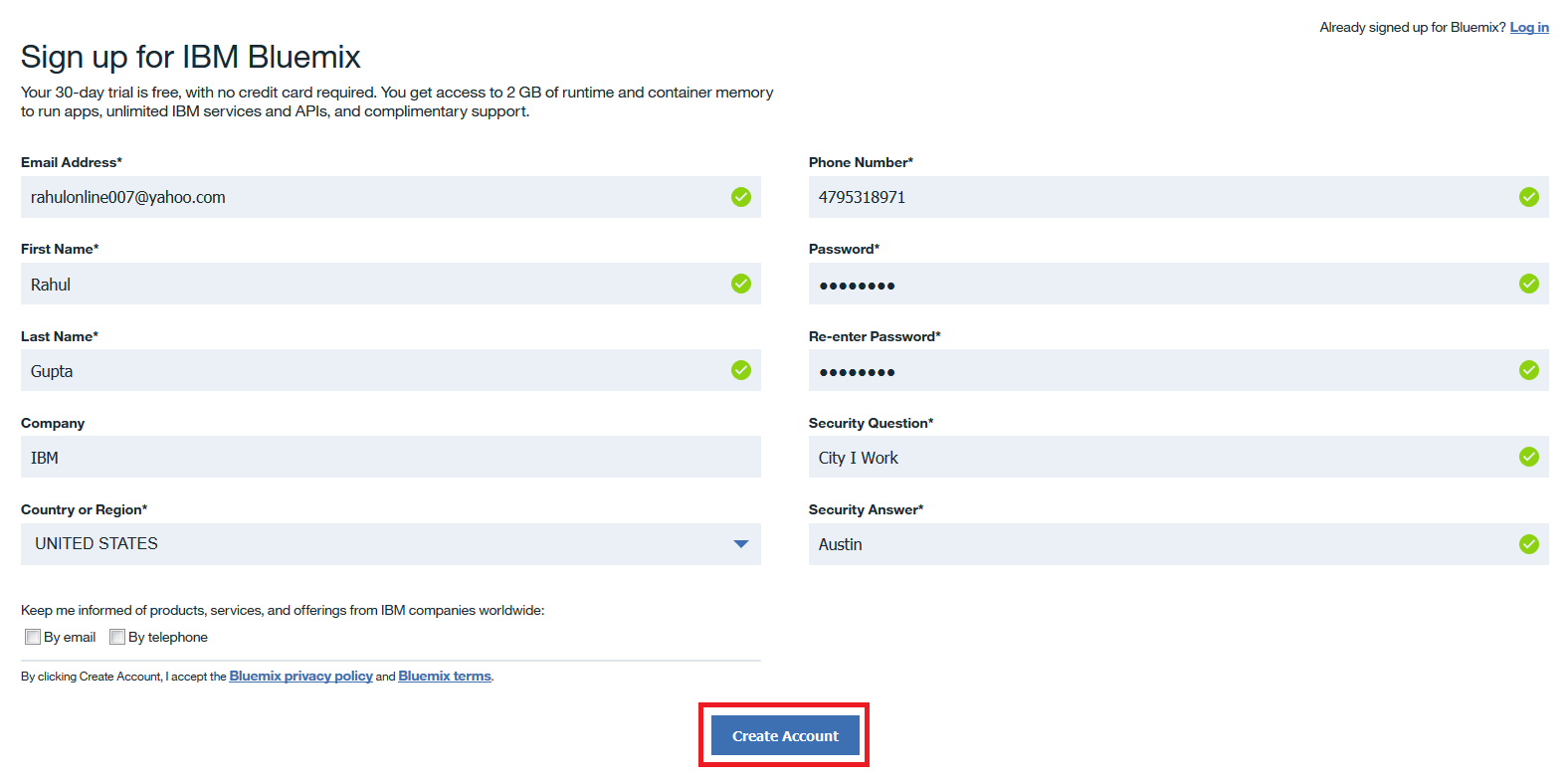
## Signup for Bluemix – New User

* This lab requires a IBM Bluemix account. If you don’t have access to IBM Bluemix already, you can register for a 30-day free trial at the following URL:

<https://console.ng.bluemix.net/registration>

* Fill all the details and then click on ***Create Account*** to complete the registration process. Check your email inbox to complete the registration as shown in figure below.

**Note:** Please check the Junk folder if you don’t see email from ***The Bluemix Team*** in your email inbox.

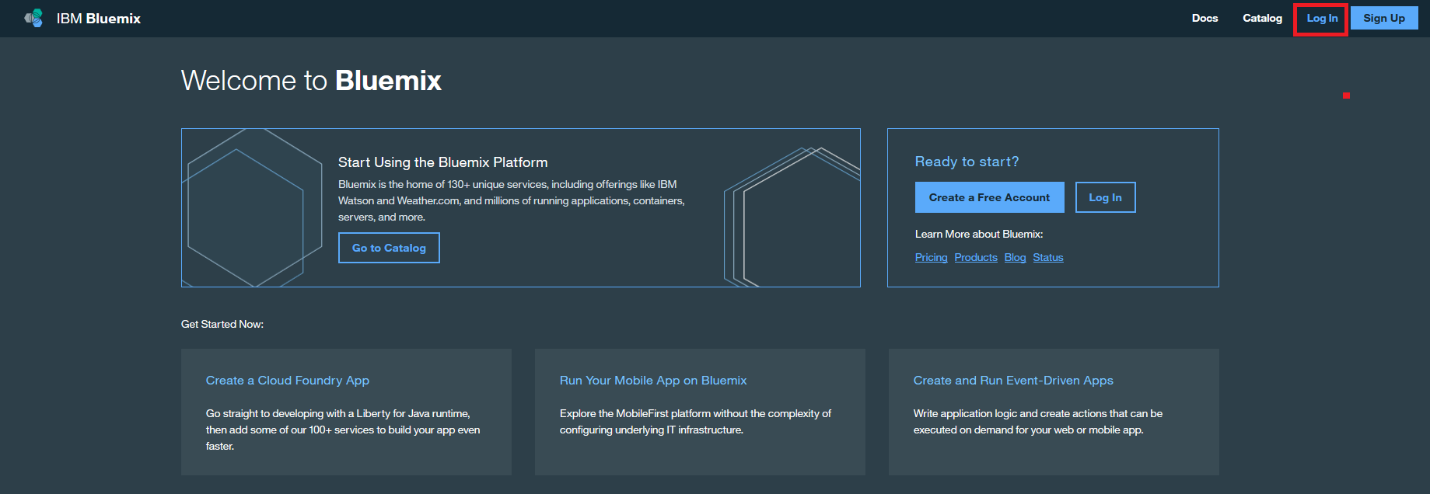


## Log-In Bluemix – New User and Existing Users

* If you already have a IBM Bluemix account, you can directly login using the URL below:

<https://console.ng.bluemix.net/>

* Click on the Log-In button to login.

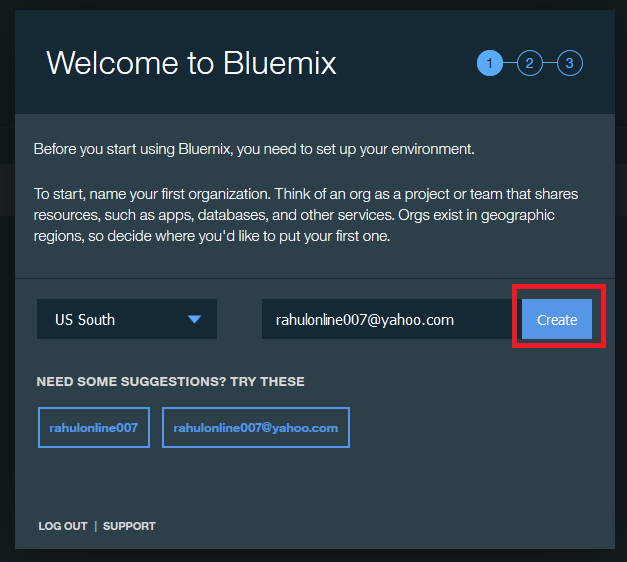


## 

## Create Bluemix organization – New User

* Once you have logged into IBM Bluemix create a Bluemix organization following the steps in the image below. Create an organization with your Bluemix account email id.

***Note:*** *Existing Bluemix users can ignore this step*



*An organization is the highest concept. When you create an account you get your own "organization". You can invite others to your organization, can get invited to join other organizations or create organizations.*

## Create Bluemix space – New User

* Create a space with name **dev**

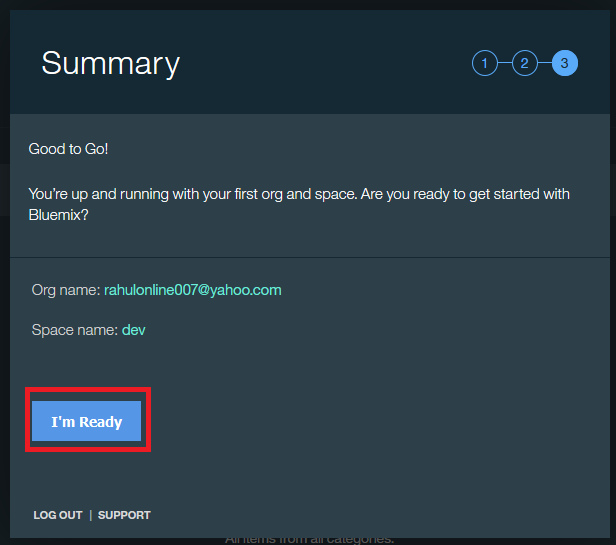
***Note:*** *Existing Bluemix users can ignore this step*

## 

*Spaces are used to group related applications and services together. There can be multiple spaces within an organization. When an application or service is created they are assigned a specific space.*

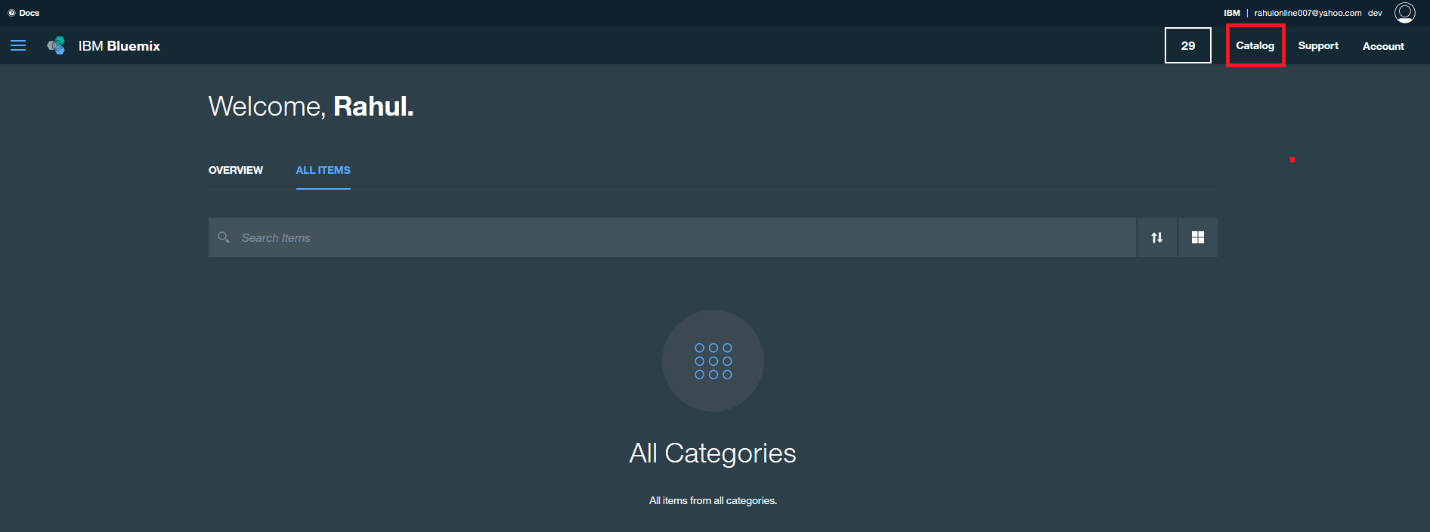
## Complete creation of organization and space– New User

* This step completes the setup of Bluemix organization and space. You can now proceed with creation of IBM Watson IoT Platform and IBM Blockchain services in the next step.

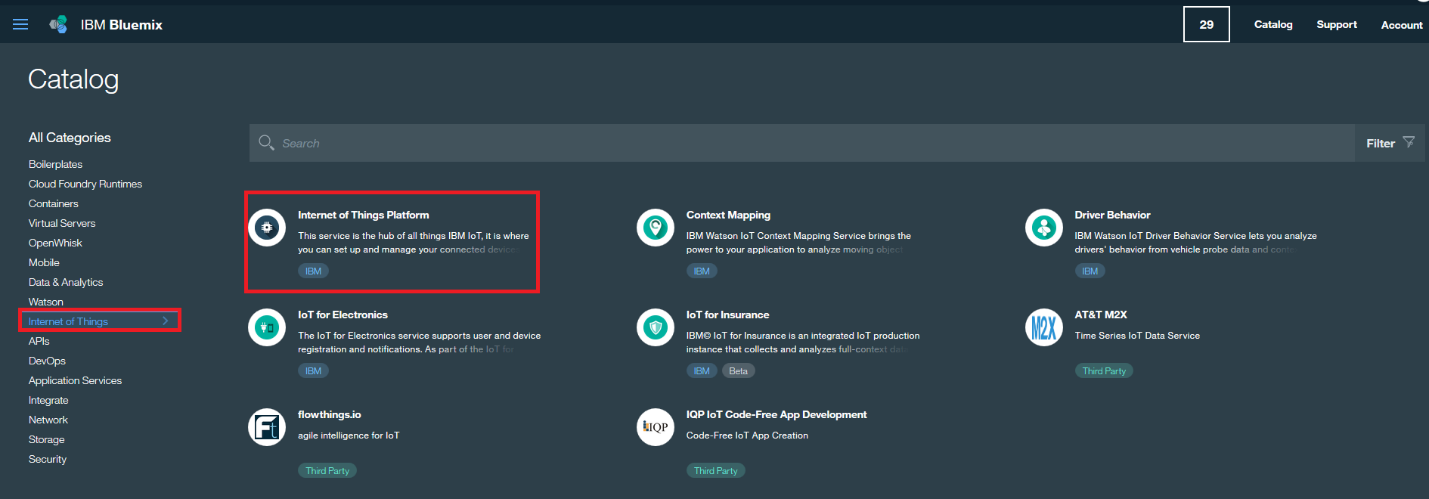


## Create IBM Watson IoT Platform Organization

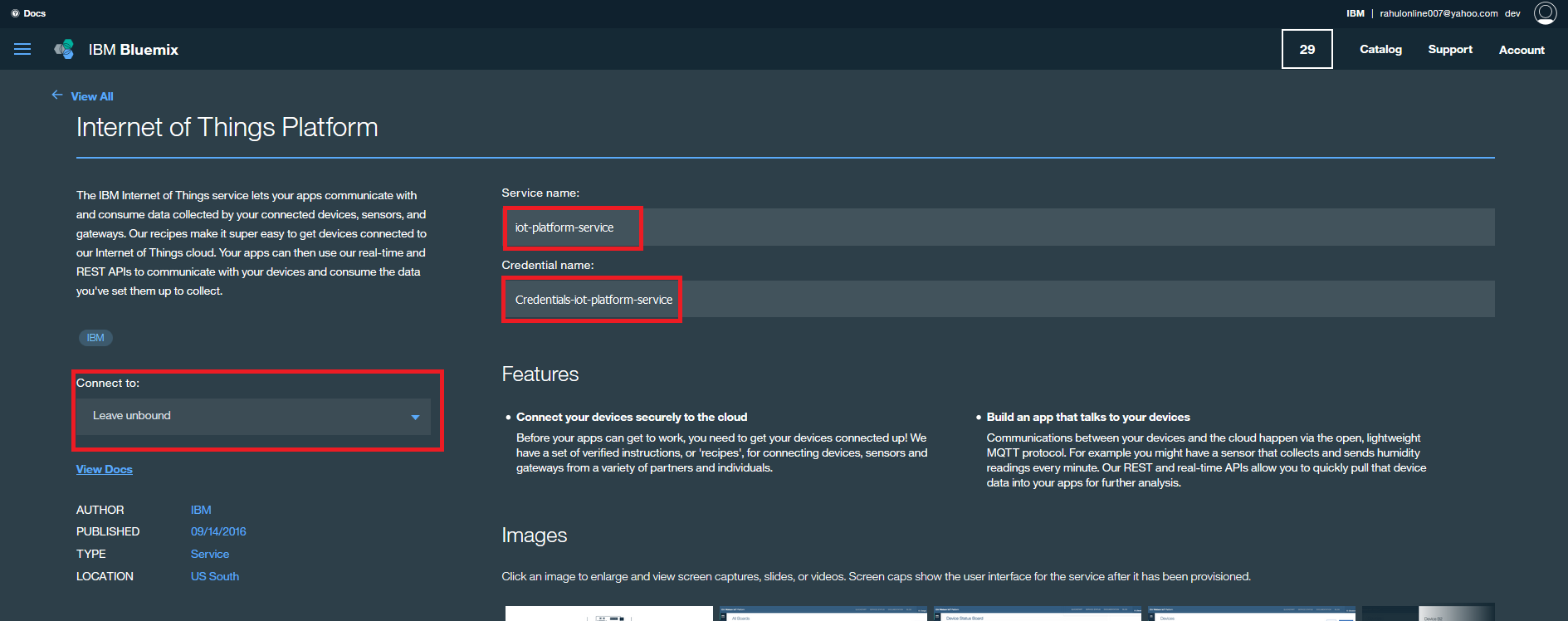
* Once you have logged in IBM Bluemix, click on the **Catalog** to browse the different services offered in IBM Bluemix platform.

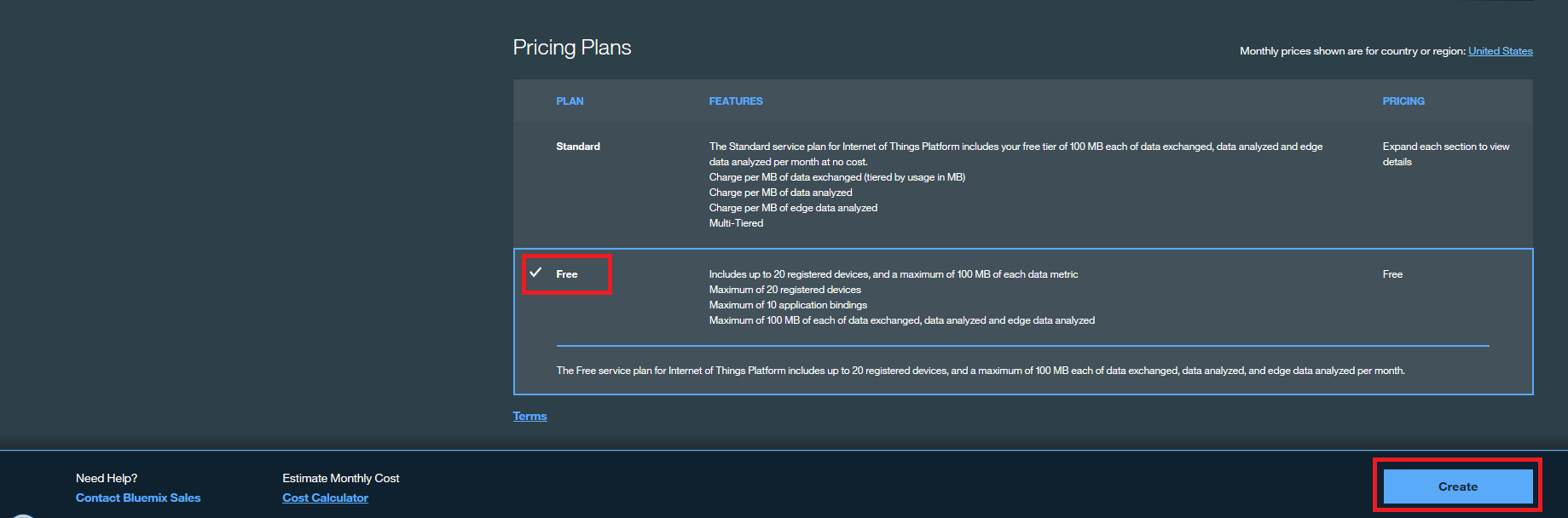


* In the services catalog select **Internet of Things** in the left menu and then click on **Internet of Things Platform**

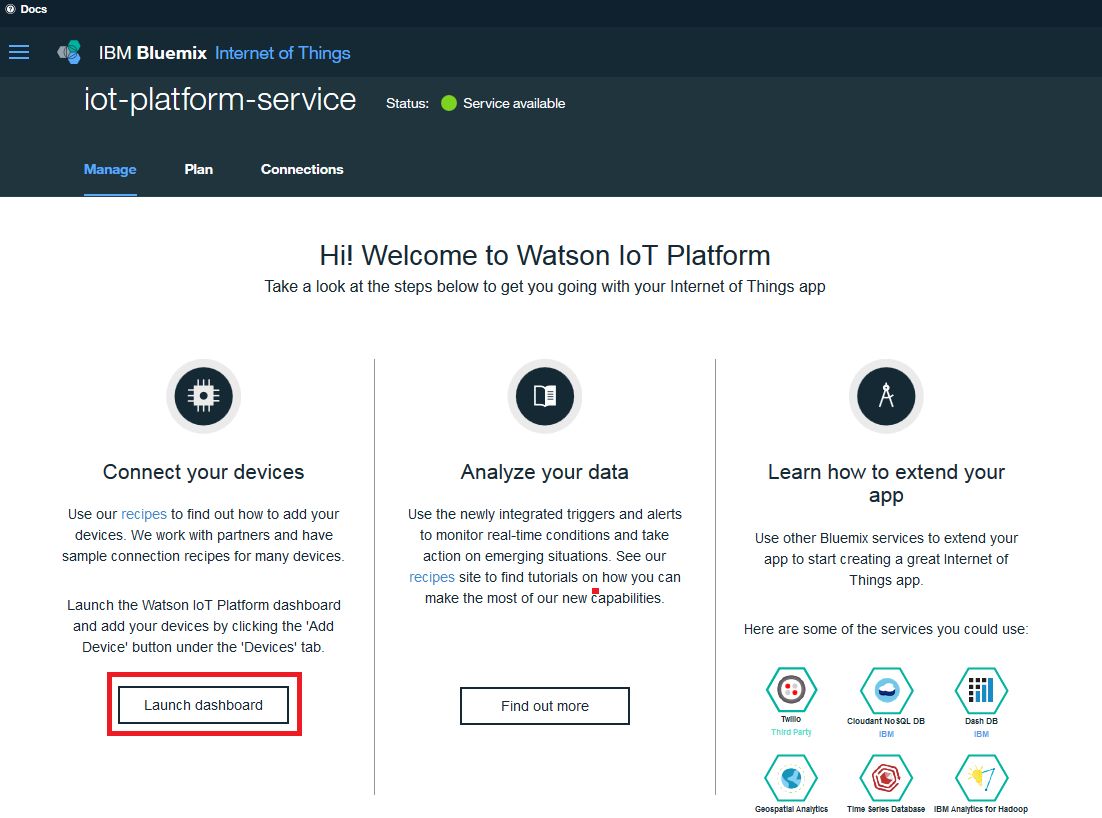


* To create the IBM Watson Internet of Things Platform, enter following details or something easier which could be remembered:
* **Service Name:** iot-platform-service
* **Credentials Name:** Credentials- iot-platform-service
* **Pricing Plans –** Free
* Click on the **Create** button the create a new instance of IBM Watson IoT Platform service in IBM Bluemix.





* Once the service is created you can launch the IBM Watson IoT Platform dashboard by clicking the **launch dashboard** button.

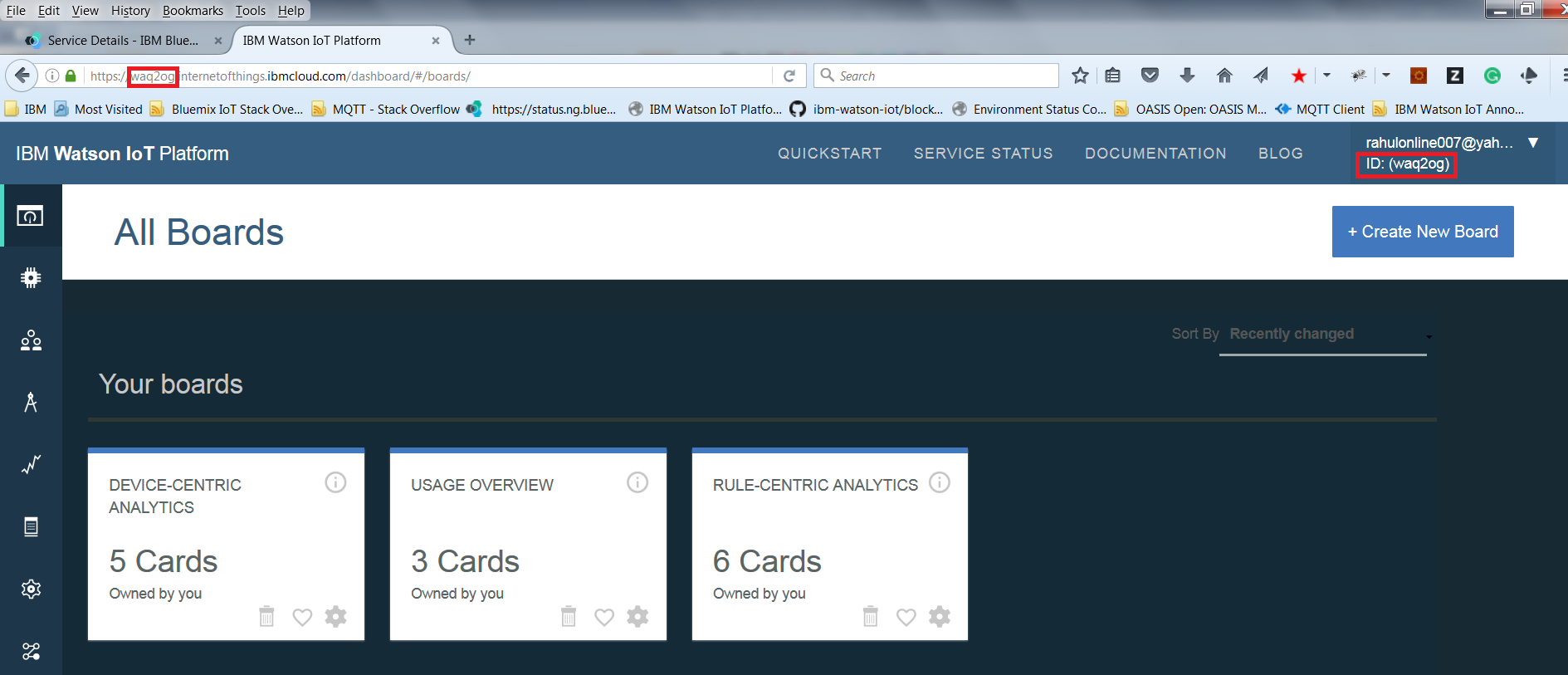


* Watson IoT Dashboard will be opened in a new browser tab. Familiarize yourself with the dashboard and specially the IoT Platform organization ID.

**Note:** The Watson IoT Platform organization ID is different from the IBM Bluemix organization ID

* Copy the Organization ID in a notepad.

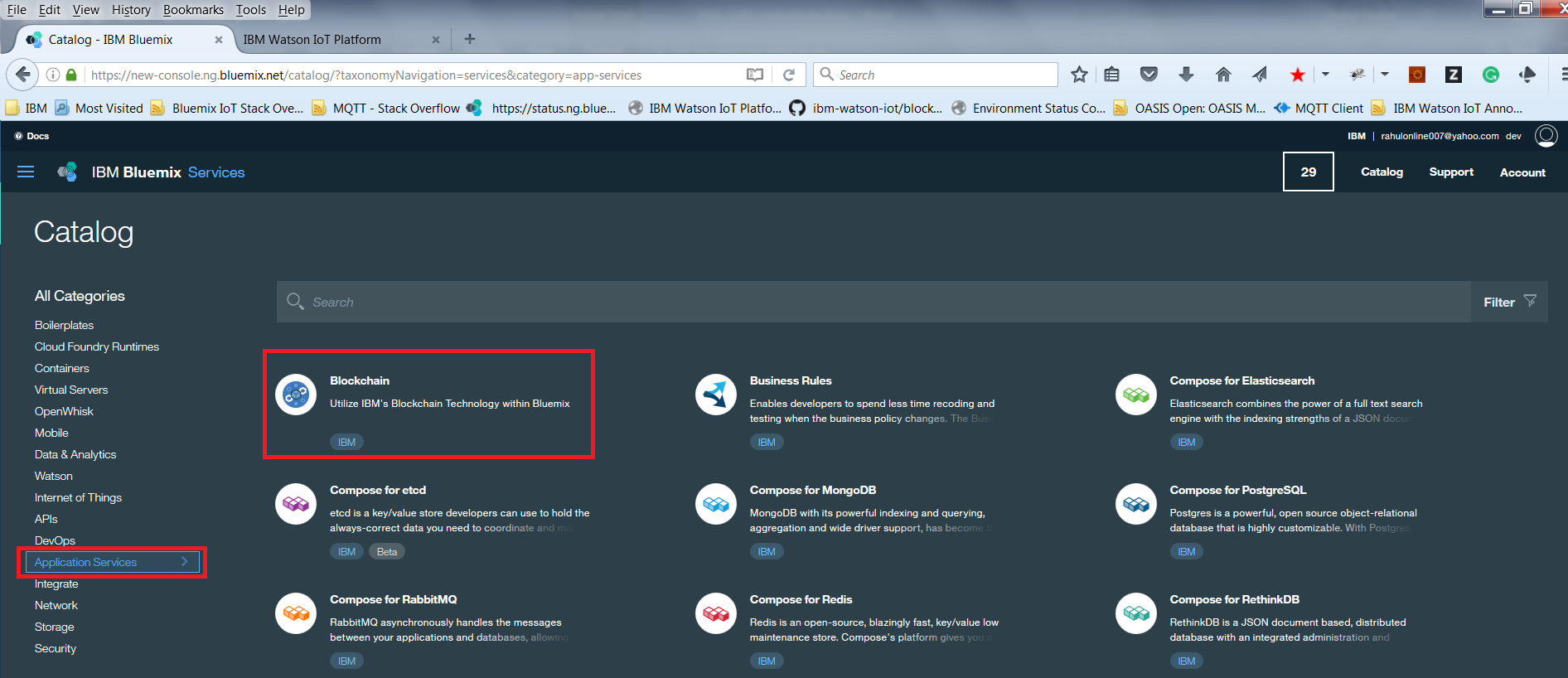
**Note:** In the image below the organization ID is highlighted in the rectangular box, every IoT Platform service has a unique organization ID.



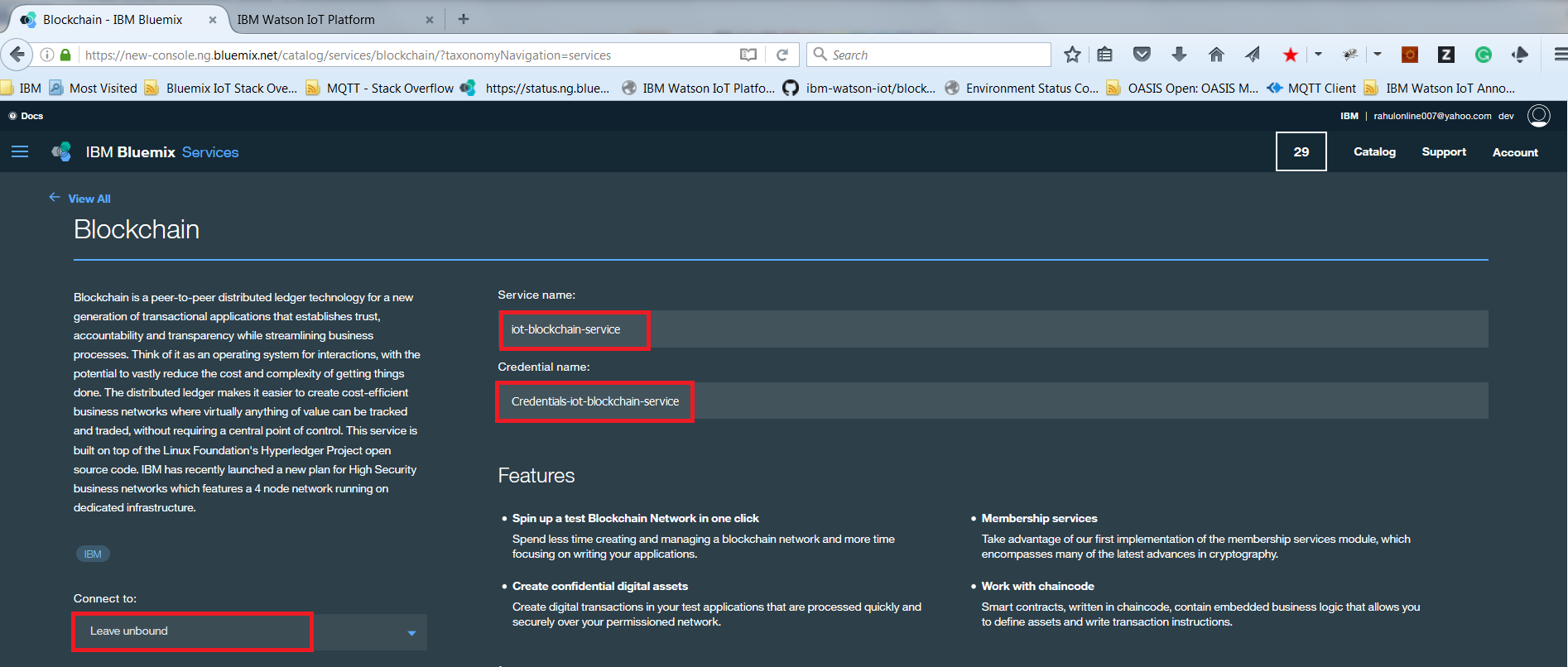
* This completes the creation of IBM Watson IoT Platform service and we can now proceed with creation of IBM Blockchain service.

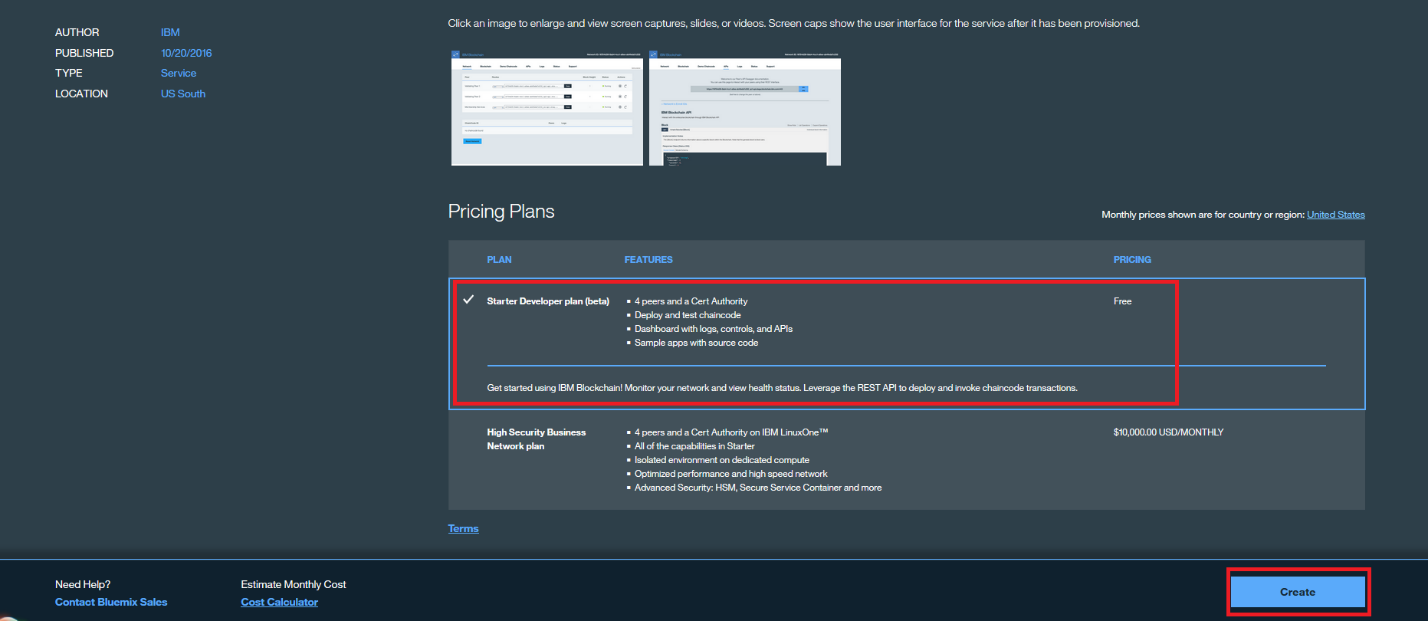
## Create IBM Watson IoT Blockchain Service

* To create IBM Blockchain service, get back the IBM Bluemix **catalog**
* Click on the **Application Service** in the catalog menu
* Select **IBM Blockchain** as shown in the image on next page.

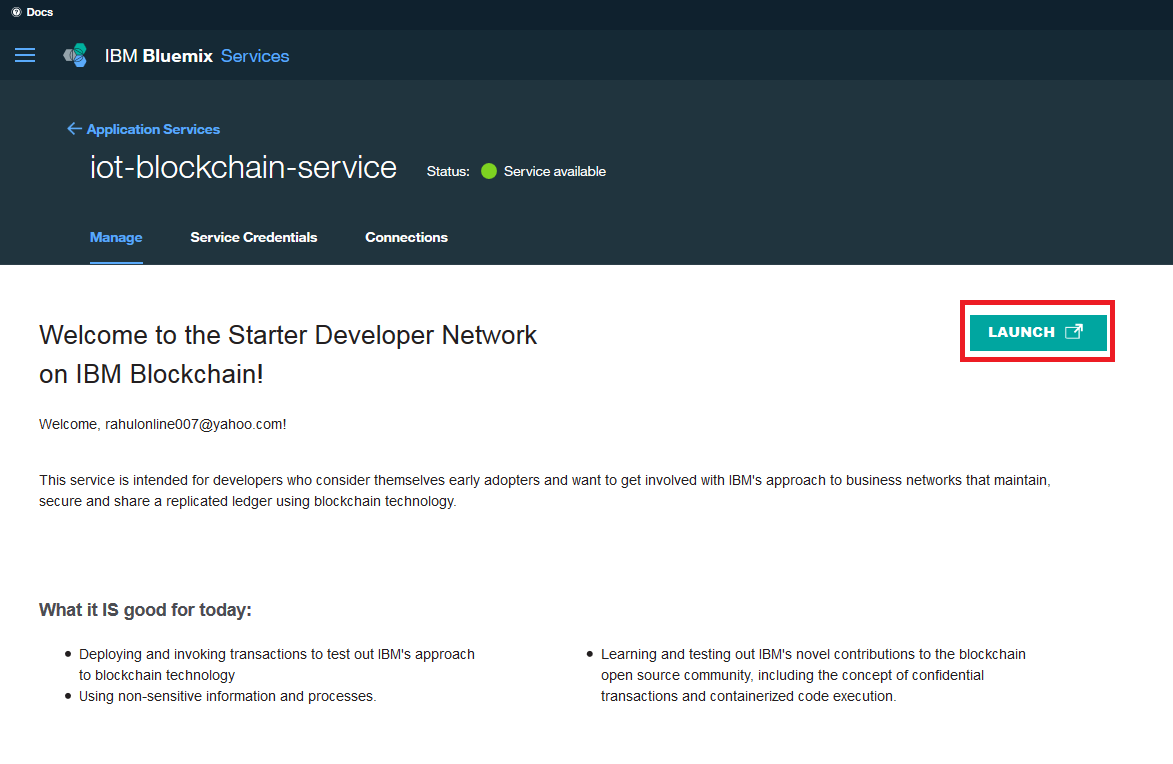


* To create the IBM Blockchain service, enter following details or something easier which could be remembered:
* **Service Name:** iot-blockchain-service
* **Credentials Name:** Credentials- iot-blockchain-service
* **Pricing Plans –** Starter Developer Plan (Beta)

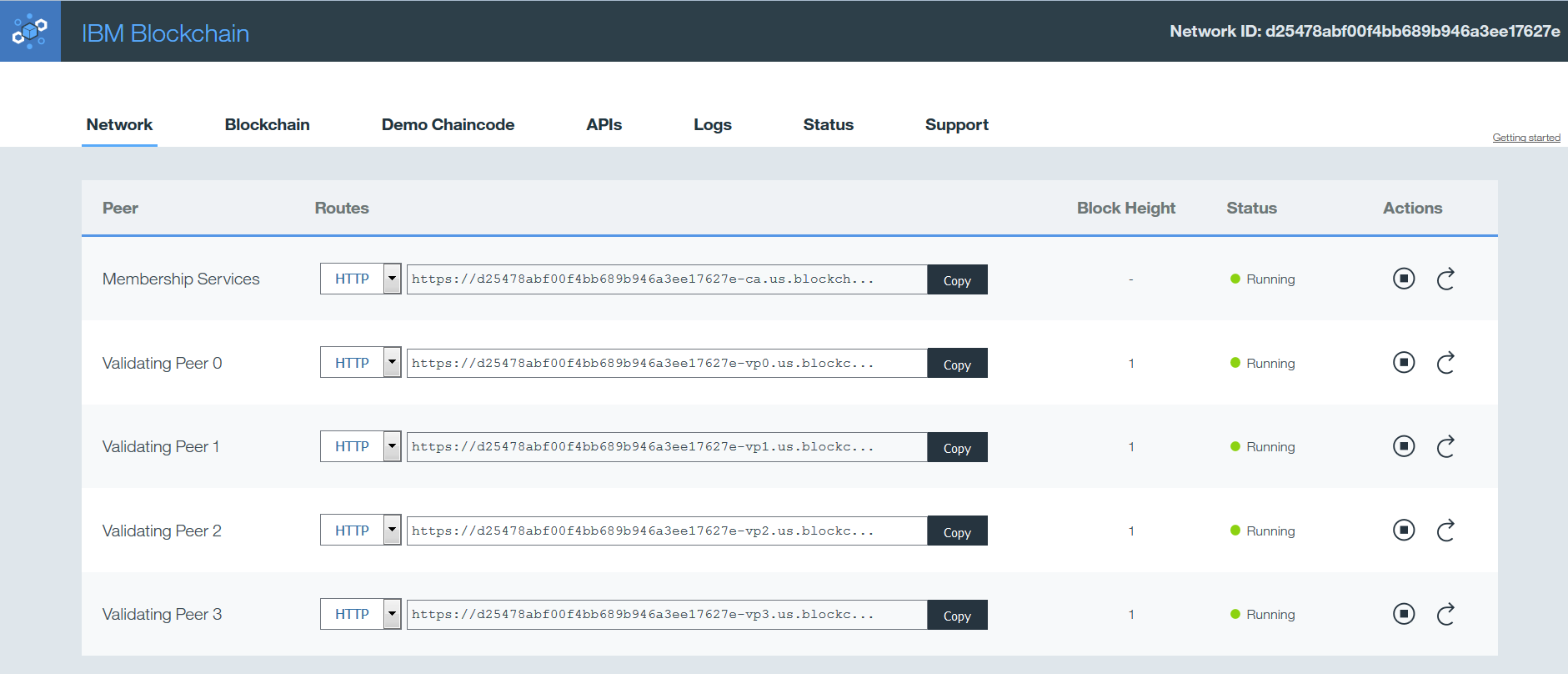




* Once the IBM Blockchain service is created, click on the Launch Button and that will launch the IBM Blockchain service dashboard in a new browser Tab window.



* IBM Blockchain service is now instantiated and ready to be used.
* This service is provisioned with four validating peer and one member ship CA (certificate authority) server.

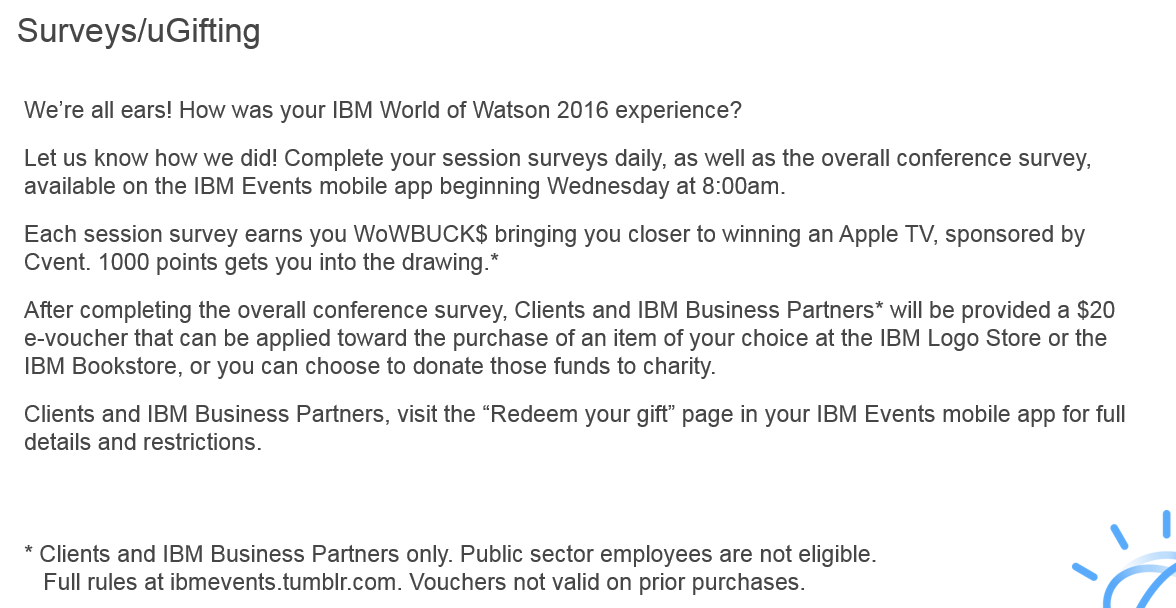


We have now created the IBM Bluemix service for the new users and later created the IBM Watson IoT Platform and IBM Blockchain service in Bluemix.

**Note** – Please don’t close the browser tabs for IBM Watson IoT Platform dashboard and IBM Blockchain dashboard.

# **We Value Your Feedback!**

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