

Tech Data

Red Hat OpenShift Container Platform v4

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1.0 Things to know prior to using this Guide

- You would need to familiarize yourself with this document prior to diving in.
- All the Screen Shots in this Guide are for reference only.
- This Guide will assist you with the deployment of the Red Hat OpenShift Container Platform v4 Bundle in an Azure CSP subscription that was purchased through the StreamOne Portal.
 - In-depth training on Azure is outside of this guide.
- **Accessing the OpenShift Container Platform in Azure**
 - You would need to login to the Azure portal to get the Console link.
 - <https://portal.azure.com>
 - You would need to login using the same user name and password as the one created in StreamOne and what was emailed to you.
- For example: john.doe@contoso.onmicrosoft.com
- It will give you a one-time password and you will need to change it.
 - To access the OpenShift Container Platform, you must ensure you have the **Login** and **Password** that were created during the StreamOne ordering process.
 - If you were not the person who accessed the StreamOne ordering portal to do the purchasing, please get with that person and obtain the user login and password that were initially created.
 - If you need to access the underlying VMs, you will need the SSH key created during the ordering process.

SSH Private Key:

You will be given your Private SSH Key during the order of you OpenShift Container Platform bundle. Please make sure you secure this key and store it in a safe place as you will need it for SSH access to any of your instances. Your key will be displayed only once and there is no way to recover it later on. For security reasons, Tech Data does not keep a copy.

- Prior knowledge is required with Red Hat CCSP and Microsoft Azure.

1.1 Pre-deployment steps

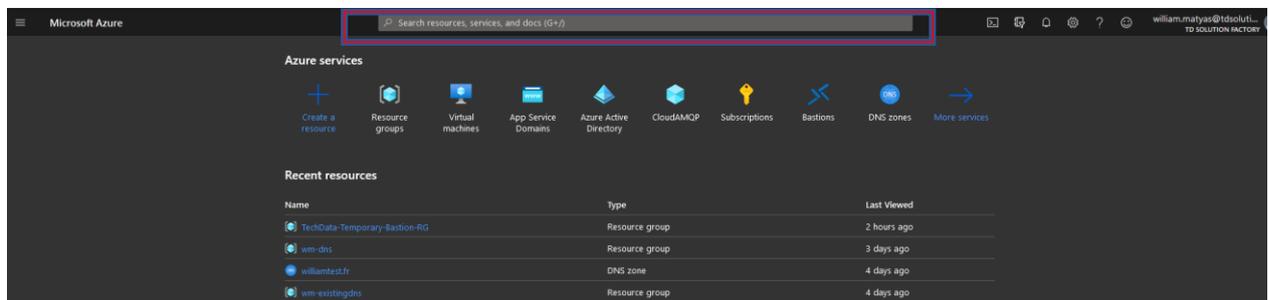
To install OpenShift Container Platform, the Microsoft Azure account you use must have a dedicated public hosted DNS zone in your account. This zone must be authoritative for the domain. This service provides cluster DNS resolution and name lookup for external connections to the cluster.

Identify your domain, or subdomain, and registrar. You can transfer an existing domain and registrar or obtain a new one through Azure or another source.

1.1.1 Obtain a new Domain through Azure.

You can obtain a new Domain through Azure.

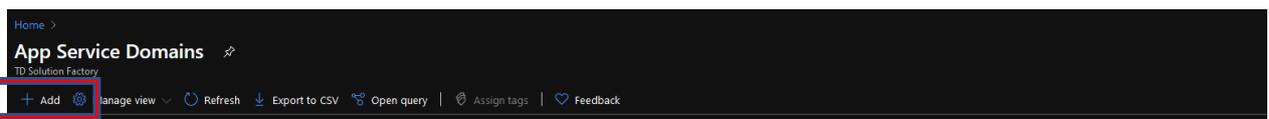
Connect to your Azure Portal and click on the search bar:



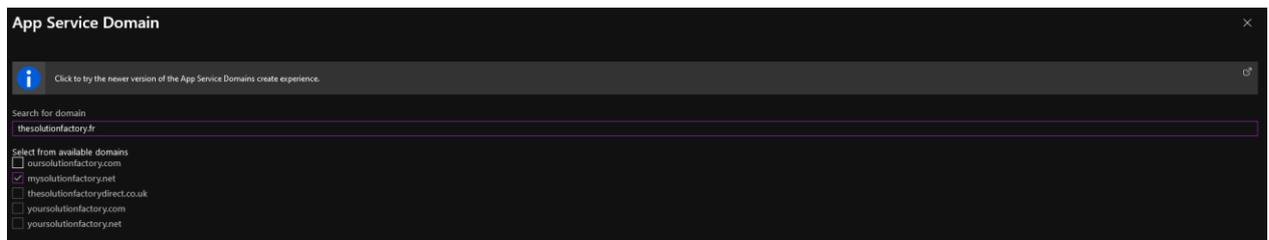
Search for an App Service Domain:



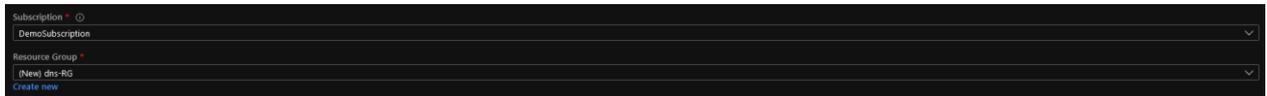
Click on Add:



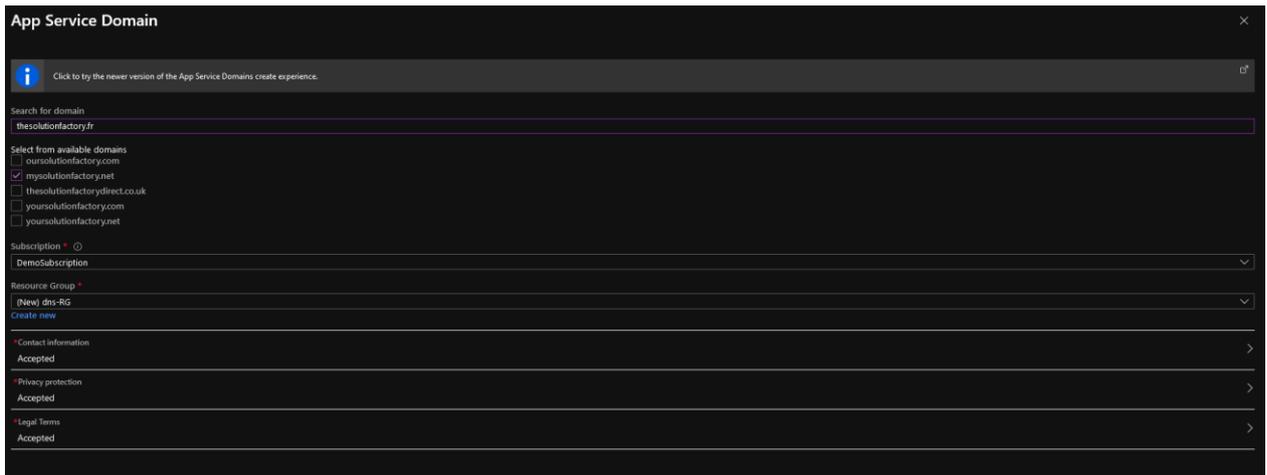
Search for an available Domain:



Create a new Resource Group:



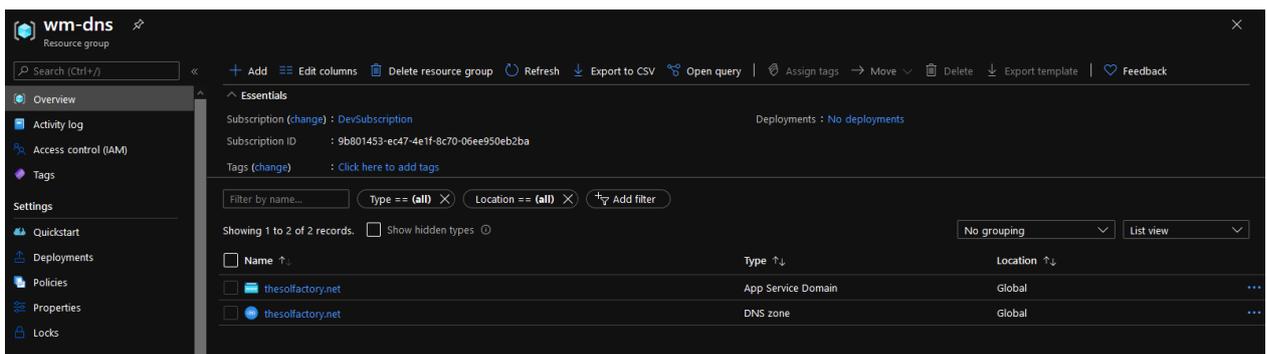
And finish up by filling your contact information, enabling or disabling Privacy protection and accepting Legal Terms:



You can then click on Create.

You will end up with 2 resources deployed in your Resource Group:

- The App Service Domain
- A Preconfigured DNS Zone

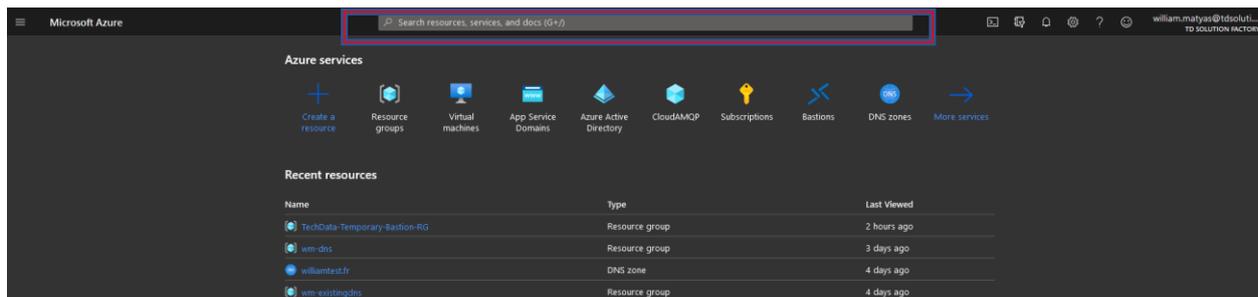


1.1.2 Transfer an existing Domain.

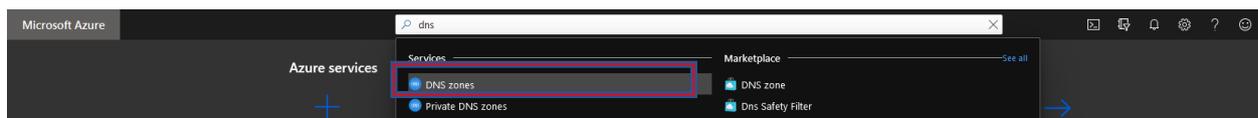
If you plan to transfer an existing domain, you will first need to create an Azure DNS Zone and then transfer the ownership of your domain to the Azure DNS Zone.

Basically, the Azure DNS Zone will manage your Domain, as OpenShift will need to create DNS records during the deployment.

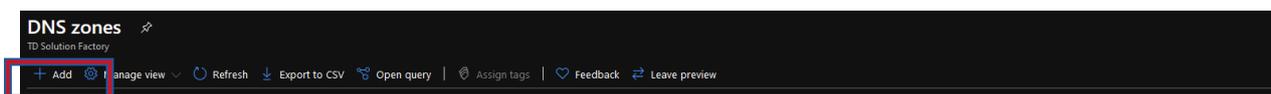
To do so, connect to your Azure Portal and click on the search bar:



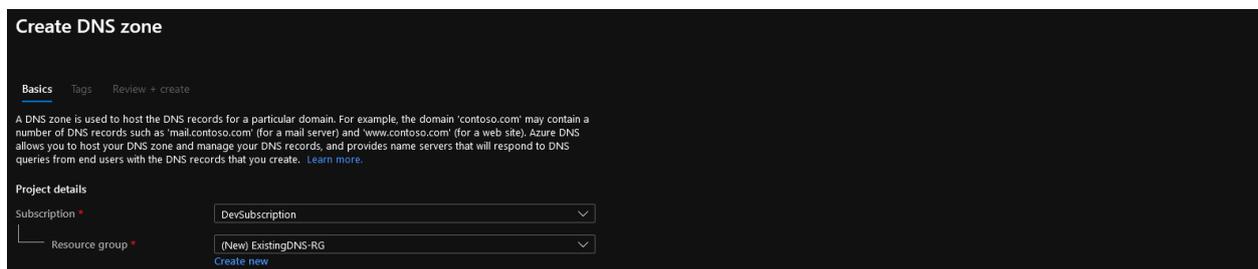
Search for DNS Zones:



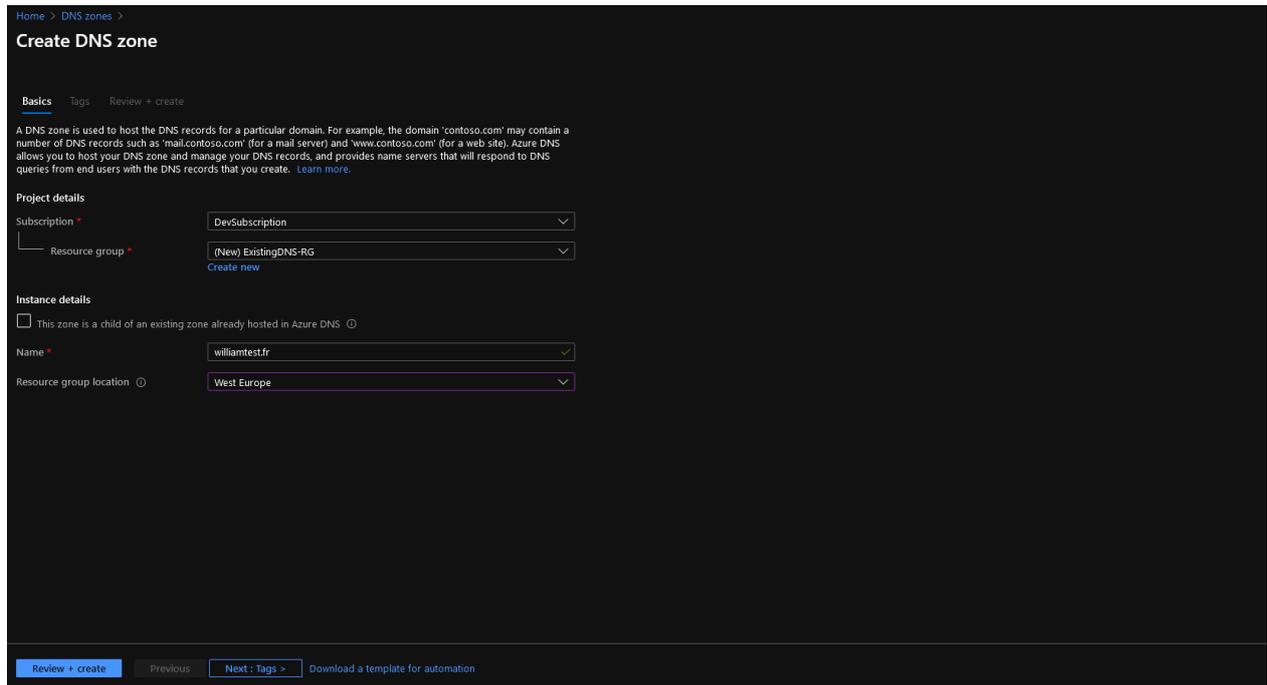
Click on Add:



Create a new Resource Group.

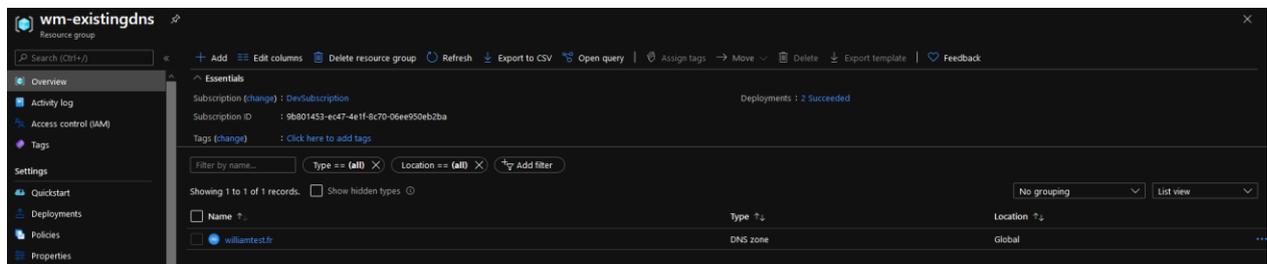


Use your domain as the name of your DNS Zone and pick out a location:

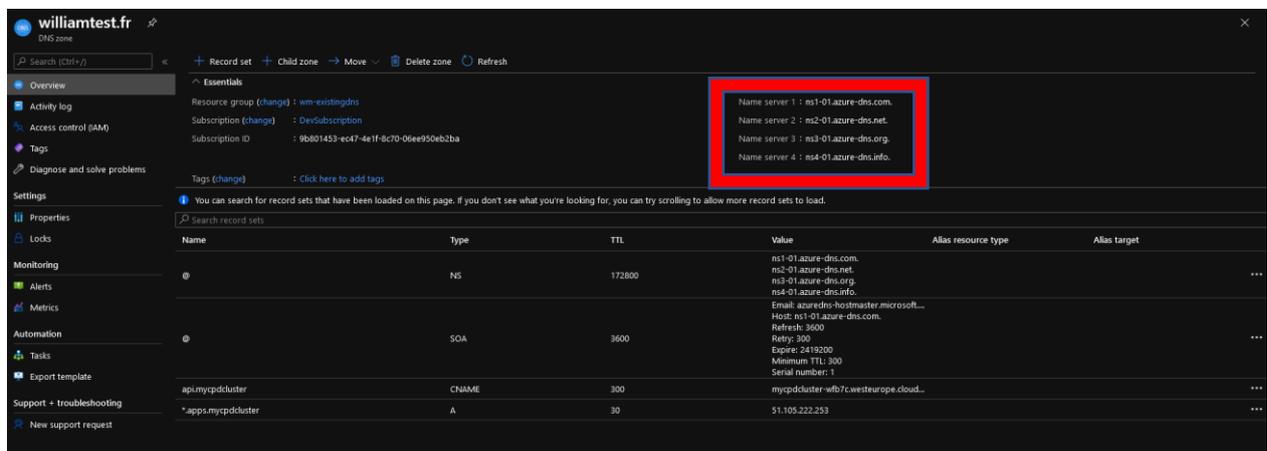


Review and Create.

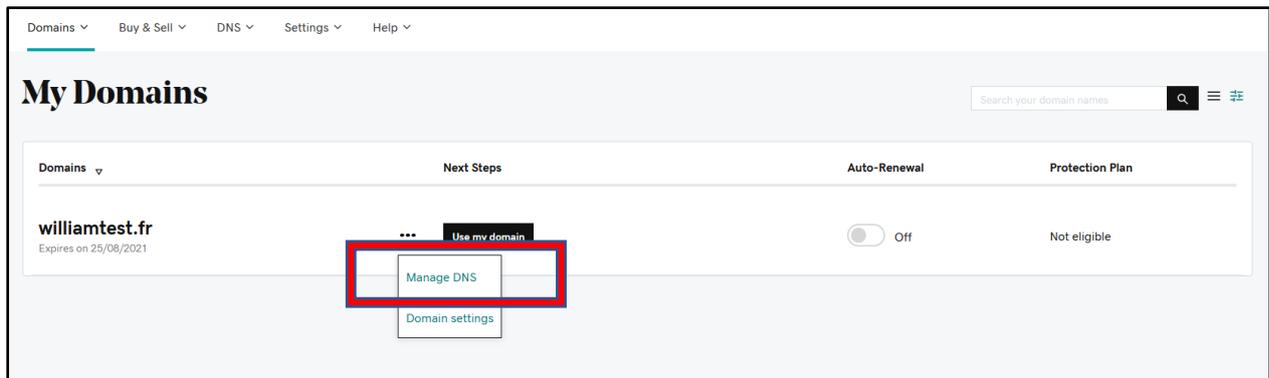
You will then have your DNS Zone deployed:



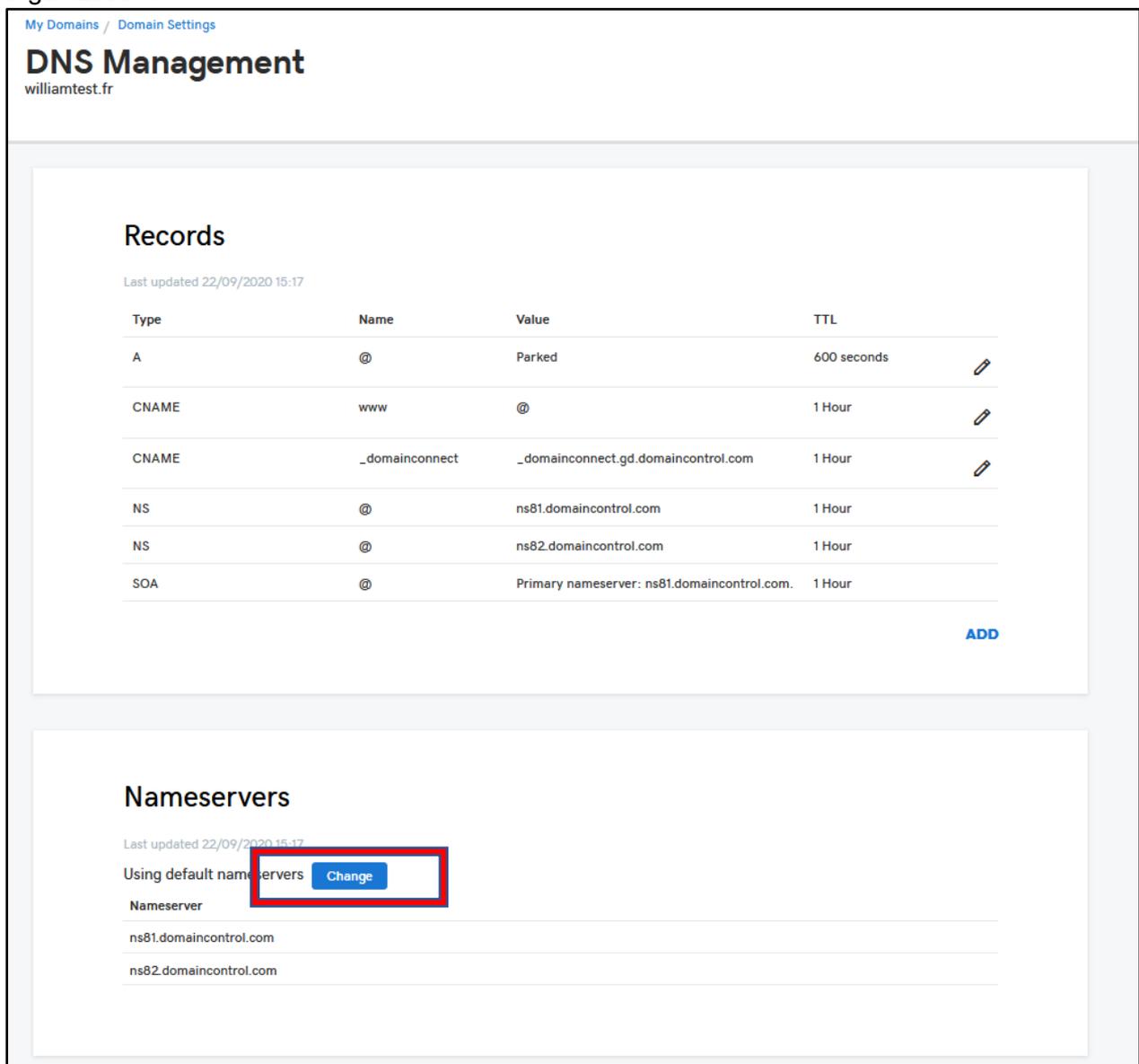
Click on the DNS Zone and note the Name Servers:



Go to your registrar and Manage your DNS:



You will need to change your Nameservers. Please make sure you can do it in your organization:



Here enter our own nameservers:

DNS Management

williamtest.fr

Connect My Domain to a Website

Changing nameservers is risky, and could potentially lead to your website disappearing from public view. We can help you achieve your objectives while keeping your nameservers with us to get rock-solid security infrastructure, light-speed resolution and global reach.


Connect my domain to a website I've built

[Enter my own nameservers \(advanced\)](#)

Use the nameservers from your DNS Zone:

My Domains

DNS Management

williamtest.fr

Enter My Own Nameservers

Changing nameservers is risky, and change could potentially lead to your website disappearing from public view.

ns1-01.azure-dns.com	
ns2-01.azure-dns.net	
ns3-01.azure-dns.org	
ns4-01.azure-dns.info	

Save and wait a couple of minutes for the changes to take effect.

Your DNS will then be managed by your DNS Zone in Azure:

DNS Management

williamtest.fr

Records

We can't display your DNS information because your nameservers aren't managed by us.

Nameservers

Last updated 22/09/2020 15:25

Using custom nameservers [Change](#)

Nameserver
ns1-01.azure-dns.com
ns2-01.azure-dns.net
ns3-01.azure-dns.org
ns4-01.azure-dns.info

You can now move on to deploying OpenShift Container Platform v4 on Azure.

1.2 Red Hat OpenShift Container Platform on Azure deployment.

Connect to StreamOne Cloud Marketplace:

STREAMONE
Software and Services on Demand

Reseller Resource Center | Reseller Portal | Contact | Cart
Logged in as William.Matyas@azlan.com [Log Off]

You are currently ordering for Aida Dzinovic of TECH DATA FINLAND OY EI TILAUKSIA [Change Reseller](#)

Home | Browse By Categories | Browse By Vendor

BitTitan | TechData Cloud

Office 365 automated assessment, migration and deployment

Better margins for you, better experiences for your customers

Notifications

Dear reseller, We are pleased to announce that StreamOne is now live in Slovakia. With this addition the platform reaches now 17 European countries, strengthening the TD Cloud presence in Europe.

Most Viewed		Newest	
Office 365 Enterprise Microsoft Office Application	SaaS	UAT TEST Sprint 3.30 Microsoft Cloud Storage	SaaS
Microsoft Azure Microsoft	IaaS/PaaS	Automation_MSP_Listing_FIN oneQATest Cloud Storage	SaaS
BitTitan Cloud Enablement Services BitTitan Encryption	SaaS	Microsoft Annual Billing Microsoft Email Archiving	SaaS
Automation Listing FIN oneQATest Migrations Tools	SaaS	Cisco Spark – Prepaid Annual Cisco Communications	SaaS
Cisco Spark– Monthly Cisco Communications	SaaS	Intercompany Test IBM Softlayer Cloud Storage	SaaS

RESELLER RESOURCE CENTER

How to get started
Video demos
FAQs

Explore Resources

Partner Links

> Go back to Tech Data
> Reseller Portal

Advertisement

Käyttöohjeet
kohta kohdalta suomeksi!

USER MANUAL

You can search for the Microsoft Azure SKU in Most Viewed, browsing by Categories or Vendor, or directly searching for it in the search field:

STREAMONE
Software and Services on Demand

Reseller Resource Center | Reseller Portal | Contact | Cart
Logged in as William.Matyas@azlan.com [Log Off]

You are currently ordering for Aida Dzinovic of TECH DATA FINLAND OY EI TILAUKSIA [Change Reseller](#)

Search: Azure Find

Click on Microsoft Azure:

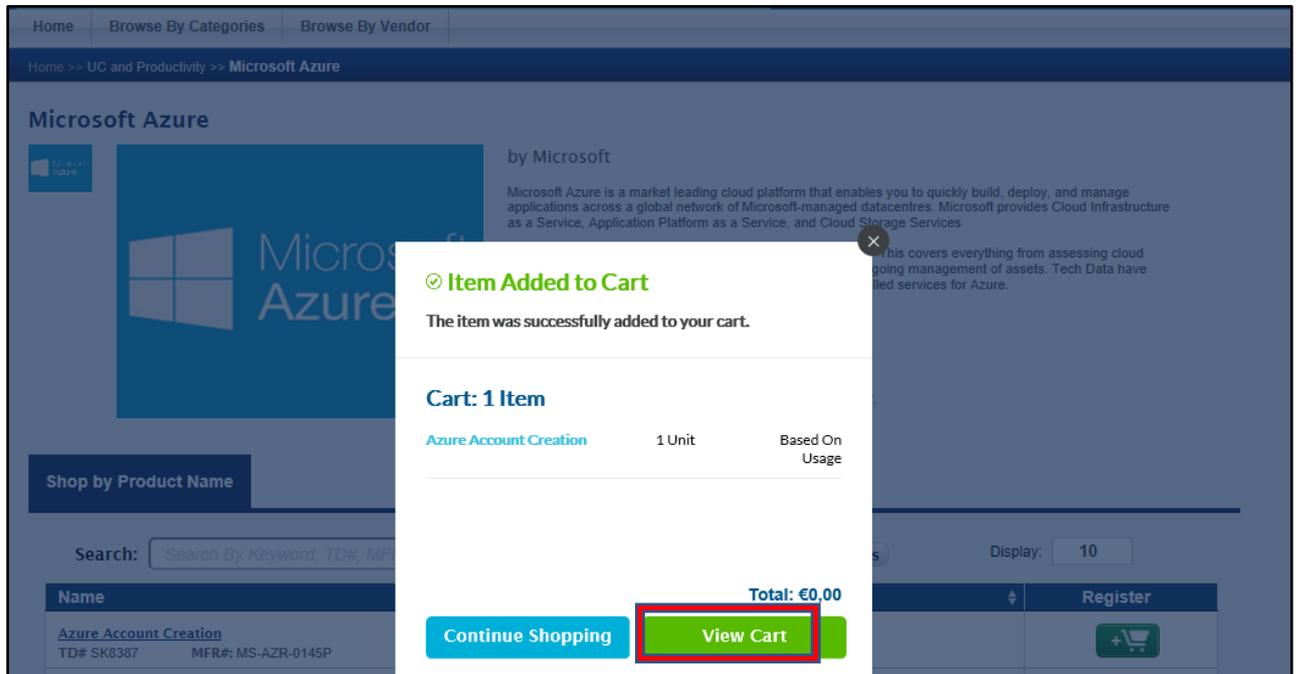
The screenshot shows the StreamOne website interface. At the top right, there is a 'Reseller Res' and 'Logge' link. Below the logo, a navigation bar includes 'Home', 'Browse By Categories', and 'Browse By Vendor'. A banner indicates the current reseller: 'You are currently ordering for Aida Dzinovic of TECH DATA FINLAND OY EI TILAUKSIA' with a 'Change Reseller' link. The main content area is titled 'PRODUCT SEARCH RESULTS FOR 'Azure''. It features a 'Microsoft Azure' product card with a red border around the title. The card includes a description of Microsoft Azure as a market-leading cloud platform and a 'CLICK FOR DETAILS' button. Below the card are links for 'Details' and 'Screenshots'.

You will then be able to browse the different skus, click on "ADD TO CART" button of registration SKU:

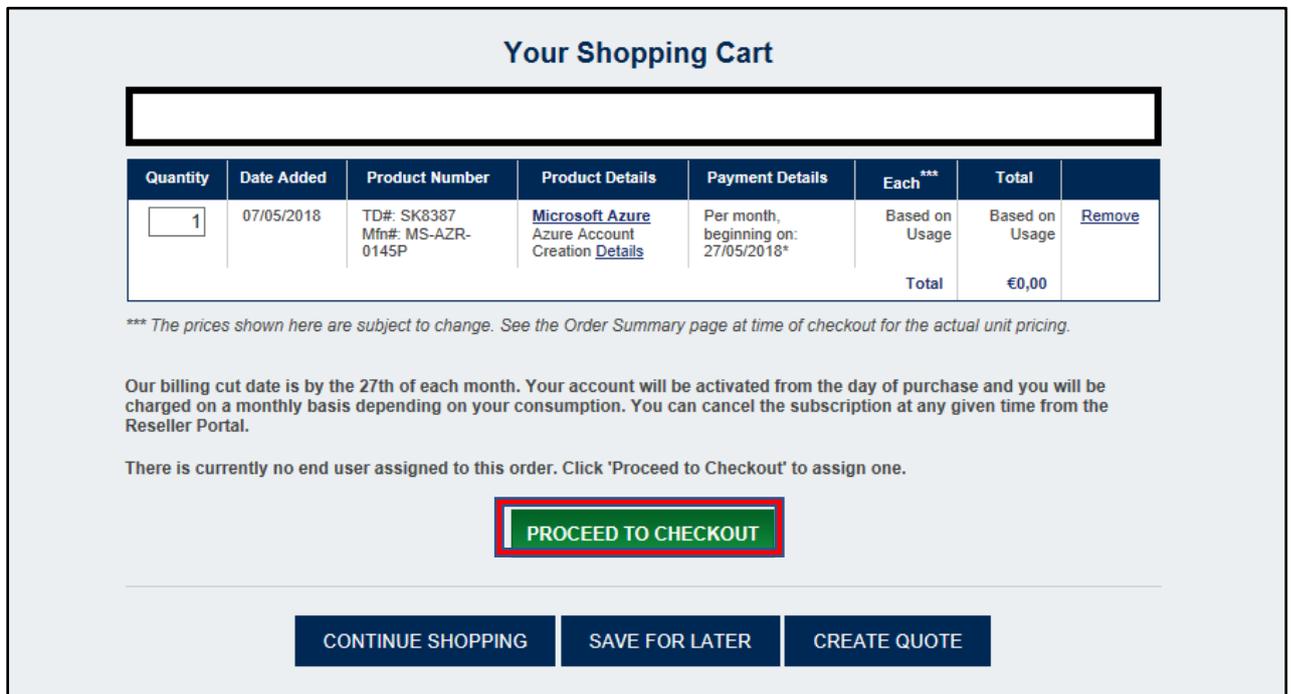
The screenshot shows a 'Shop by Product Name' page. It features a search bar with the text 'Search By Keyword, TD#, MFR#' and a 'Clear Filters' button. The 'Display' count is set to '10'. Below the search bar is a table listing various Azure-related products. Each row includes the product name, TD#, MFR#, and an 'Add to Cart' button (represented by a green shopping cart icon with a plus sign). The 'Red Hat OpenShift' row is highlighted with a red border. At the bottom, there is a pagination control showing 'Showing 1 to 10 of 11 entries' and buttons for 'First', 'Previous', '1', '2', 'Next', and 'Last'.

Name	Register
Azure Backup TD# SK8398 MFR#: td-backup-on-ms-azure	
Azure Registration - For Sandbox testing TD# SK35380 MFR#: td-on-ms-azure	
Azure Site Recovery TD# SK8399 MFR#: td-site-recovery-ms-azure	
Azure SQL DBaaS TD# SK8401 MFR#: td-sqlserver-ms-cloud	
Azure Storage TD# SK8400 MFR#: td-file-storage-ms-azure-std	
Azure Virtual Machine TD# SK35322 MFR#: MS-AZR-0146P22	
Backup On Azure Production TD# SK35316 MFR#: td-backupp-on-ms-azure	
NetApp Cloud Volumes TD# SK35323 MFR#: MS-AZR-0146PM	
Red Hat OpenShift TD# SK35327 MFR#: MS-AZR-0146P	
Small Business Cloud Server v2 TD# SK35343 MFR#: azure-sbcsv2-uk-sku	

Click on "View Cart" button:



Click on 'Proceed to Checkout' button:



Fill End User information or select any end user using your email and click on "Continue to Configuration" button.

STREAMONE
Software and Services on Demand

Checkout
Logged in with ID: 345802 | Log Out

Cart → End Customer Info → Azure Settings → Configuration → Payment → Summary → Complete

[< Return to Shopping](#) Sales and Customer Support: [+358 20 1553 694](#)

End Customer Info

The following products require end user information: *indicates a required field

- Azure Account Creation

Please select or enter an end user for the products above:

[Select From Address Book](#)

Company Name:

First Name: **Last Name:** **Title/Position:**

Phone Number:

End Customer Email:

Confirm End Customer Email:

Address Line 1:

Address Line 2:

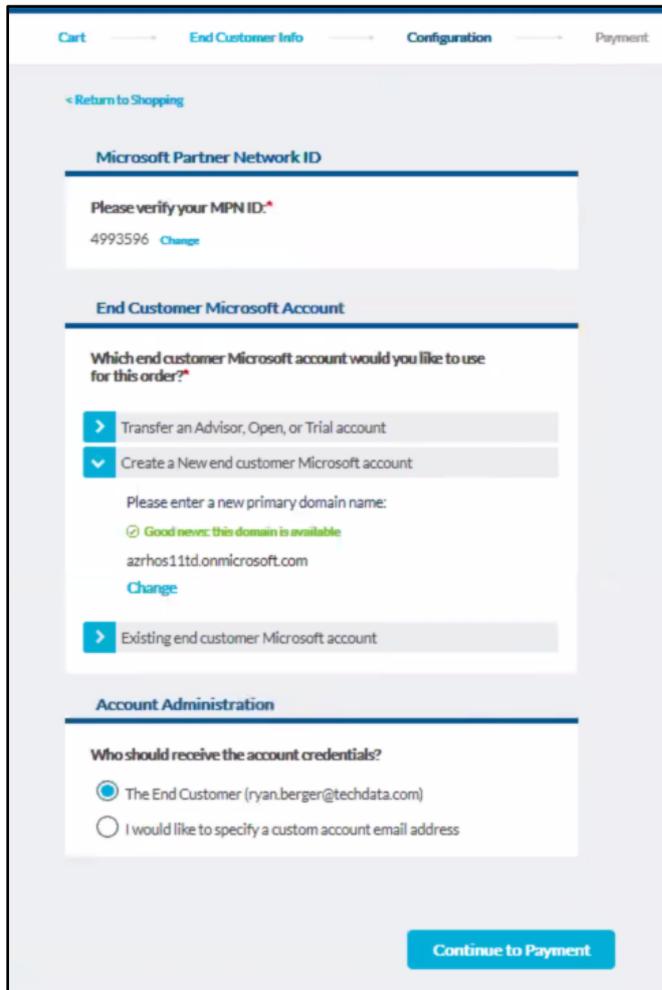
? This email address MUST be associated with the end customer domain to set up the account properly. If you do not wish to send communication directly to this email you will have the option to specify a different email address during the next step in the Account Administration section.

Configuration page should be displayed.

Fill in your Microsoft Partner Network ID.

Click on Create a New end customer Microsoft account button.

Enter any unique domain name and click on Check Availability button.

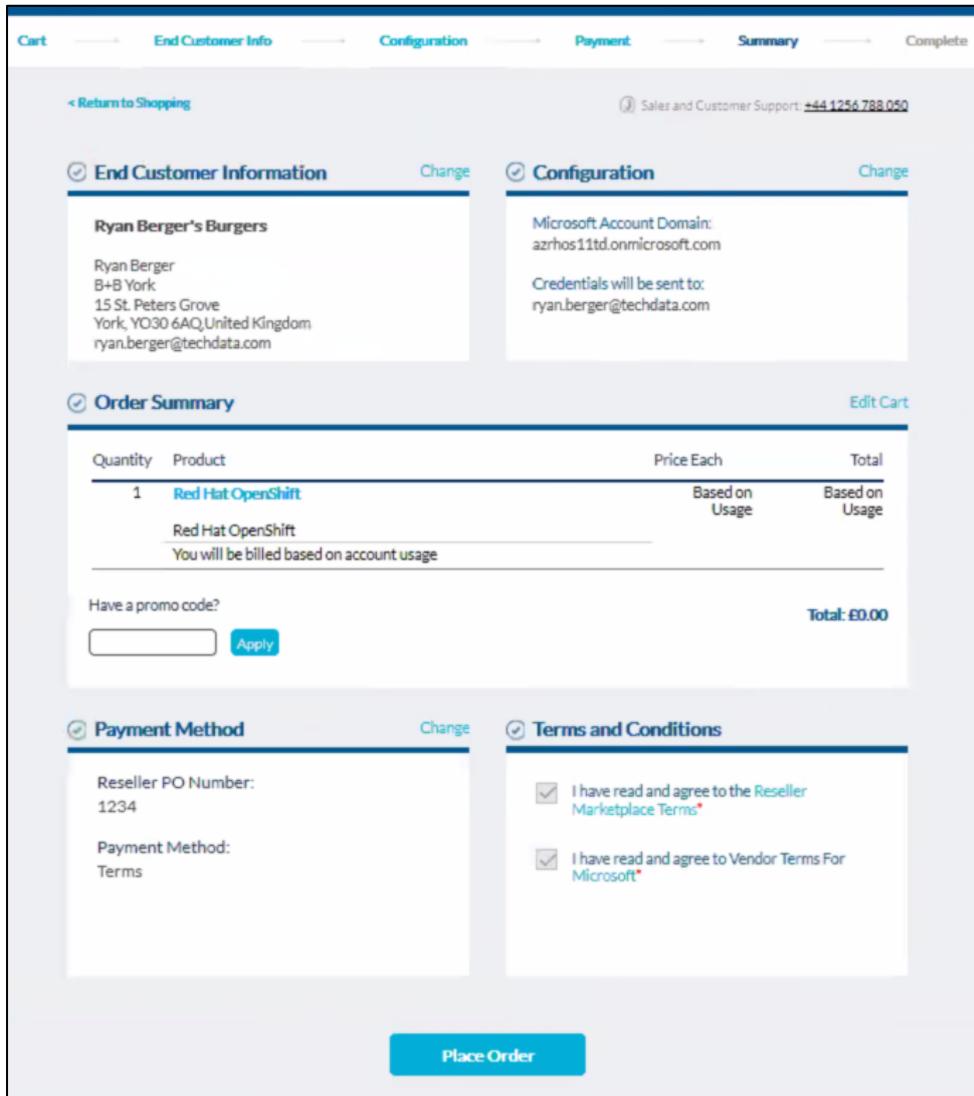


Select "The End Customer email" radio button from the "Account Administration" module.

Or select "I will administer the account" radio button from the account administration module and enter the Delegate admin email ID.

Click on "Continue to Payment" button.

Click on "Continue to Summary" button.
 Verify the information shown and click on "Place Order" button.



The screenshot shows a checkout page with the following sections:

- End Customer Information:** Ryan Berger's Burgers, Ryan Berger, B+B York, 15 St. Peters Grove, York, YO30 6AQ, United Kingdom, ryan.berger@techdata.com.
- Configuration:** Microsoft Account Domain: azrhos11td.onmicrosoft.com, Credentials will be sent to: ryan.berger@techdata.com.
- Order Summary:**

Quantity	Product	Price Each	Total
1	Red Hat OpenShift	Based on Usage	Based on Usage
You will be billed based on account usage			

Have a promo code? **Total: £0.00**
- Payment Method:** Reseller PO Number: 1234, Payment Method: Terms.
- Terms and Conditions:**
 - I have read and agree to the Reseller Marketplace Terms*
 - I have read and agree to Vendor Terms For Microsoft*

Your order should be complete.

✓ **Order Complete**

Order #S000186103

[Return to Shopping](#)

**Thank you for your business.
Your order is currently being processed.**

To check the status of your order please visit the [Reseller Portal](#) and view [Order Tracking](#)

When we have completed processing your order:
 • An email will be sent to your end user with getting started instructions,

Order Summary

Order Date: 07-05-2018 12:54 PM CEST

Reseller PO #: 123456789

Sold To:

TECH DATA FINLAND OY EI TILAUKSIA
 TALLE ASIAKASNUMEROLLE SOKERILINNANTIE 11 C
 ESPOO, 02600 FI
 9999999999
 S1QATestingEmail@techdata.com

End Customer Information:

Techdata France
 William Matyas
 142 avenue de Stalingrad
 Colombes 92700
 France
 william.matyas@techdata.com

Items Purchased

Qty	M/Part#	Vendor	Description	Date	Promo	Each	Total
1	MS-AZR-0145P	Microsoft	Azure Account Creation	07/05/2018		Based on usage	Based on usage
						Total	€0,00

[Return to Shopping](#)

You should receive an email with your Microsoft Subscription Information:



Dejir William Matyas,

Your Microsoft account has been setup.

Please continue to <https://login.microsoftonline.com> and login with the username and password below for your Office 365 subscriptions.
For Azure, please use <https://portal.azure.com/>

Username: admin@williamtestocp.onmicrosoft.com

Password: *****



Your Subscriptions:

Name	Quantity
Azure Account Creation	1

And another email regarding the deployment of your Azure Bundle:



Hi!

Your Azure Bundle has been deployed!

This is to inform you that the Azure Bundle has been deployed successfully. Please find the details below.

Sales Order Details

Sales Order #: S000186148

Reseller PO: test

End Customer PO:

Account Number: 0000345802

End Customer Email: william.matyas@techdata.com

Bundle Details

Bundle Name: Red Hat OpenShift

Subscription Id: 475e5e96-bf99-4ab9-ab76-a9d5fbfd9a32

Datacenter Location: West Europe

Credentials

Now click on Reseller Portal, then Customer Admin. Look for your Customer and click on IaaS/PaaS.

Reseller Resource Center | Reseller Portal | Contact | Ca
 Logged in as ryan.berger@techdata.com | Log out

You are currently ordering for Aida adzinovic of Tech Data [Change Reseller](#)

Home Browse By Categories Browse By Vendor

Welcome Tech Data 703212 Search Address Book Find

Home Page
 Orders
 Insights
 Recurring Billing
Customer Admin
 Address Book
 Opportunities
 My Profile

Customer Admin

Show 100 entries Search: ryan.b

Company	Email
Ryan Berger's Burgers	ryan.berger@techdata.com

SaaS IaaS/PaaS Billing Quotes Company Info Carts

Showing 1 to 1 of 1 entries (Filtered from 37 total entries)

First Previous 1 Next Last

Then Click on Modify:

16/01/19 05:52:PM CET	S000260371 Sandbox	StreamOne	Microsoft	MS-AZR-0145P	SK7608	azrhos11td	both infrastructure-as-a-service and platform-...	Azure Account Creation Microsoft's cloud platform, an industry leader for both infrastructure-as-a-service and platform-...	1	Support	Modify
--------------------------	-----------------------	-----------	-----------	--------------	--------	------------	---	--	---	---------	--------

Showing 1 to 12 of 12 entries

First Previous 1 Next Last

Cancelled IaaS/PaaS Applications

Then click on “Click to Configure”:

Status of Subscription: Active
Current Billing Cycle: 12/01/2019 - 11/02/2019
Current Budget: £0.00
Subscription Usage: £0.00

Usage Threshold Notification at: 0%

Reseller Information:
 Reseller PO#: 1234
 Tech Data
 Wessex House, Oxford Road Chineham Business Park
 Basingstoke, Hampshire RG14 1PA GB
 S1QATestingEmail@techdata.com
 1231223111

End User Information:
 End User PO#: YC30 6AQ
 Ryan Berger's Burgers
 Ryan Berger
 B+B York 15 St. Peters Grove
 York
 ryan.berger@techdata.com
 3526502341

Subscription Settings
 Domain: azr/hos11td
 Subscription name: Microsoft Azure

Order #	Vendor	Name	Delegate	Manage	Status	Created On	Modified On
S000260371 Sandbox	Microsoft	Azure Registration Base Subscription	Delegate	Manage	suspended / active	16/01/2019 05:22 PM CET	16/01/2019 05:52 PM CET
S000260371	Microsoft	Azure Bundle - Red Hat OpenShift			Click to Configure	16/01/2019 05:22 PM CET	16/01/2019 05:22 PM CET

Disclaimer: Data updates every 24 hours

Need to access your end user's subscription
 Click the View steps option below for more information on how to get started.
[View Steps](#)

Information related to selected bundle should be displayed.

Configure your Red Hat OpenShift V4 Solution

Note: To install OpenShift Container Platform, the Microsoft Azure account you use must have a dedicated public hosted DNS zone in your account. This zone must be authoritative for the domain you plan to use. OpenShift provides cluster DNS resolution and name lookup for external connections to the cluster.

Note: Please refer to [Red Hat's Guide](#) first to configure the Public DNS Zone you plan to use in Azure.

OpenShift Container Platform - Configuration

OpenShift Cluster Name:

OpenShift Cluster Version: Latest Version 4.5

Data center location for the OpenShift Cluster and for the OpenShift Network: Select an available Azure Region

OpenShift Container Platform - Pull Secret

Note: You have to retrieve the [OpenShift Pull Secret](#) first to deploy Red Hat OpenShift.

Paste the contents of your license file here:

OpenShift Cluster - Network Configuration

Resource group name for the OpenShift Cluster Network:

OpenShift Cluster - Cluster Admin Configuration

OpenShift Cluster Admin Username:

OpenShift Cluster Admin Password:

Confirm OpenShift Cluster Admin Password:

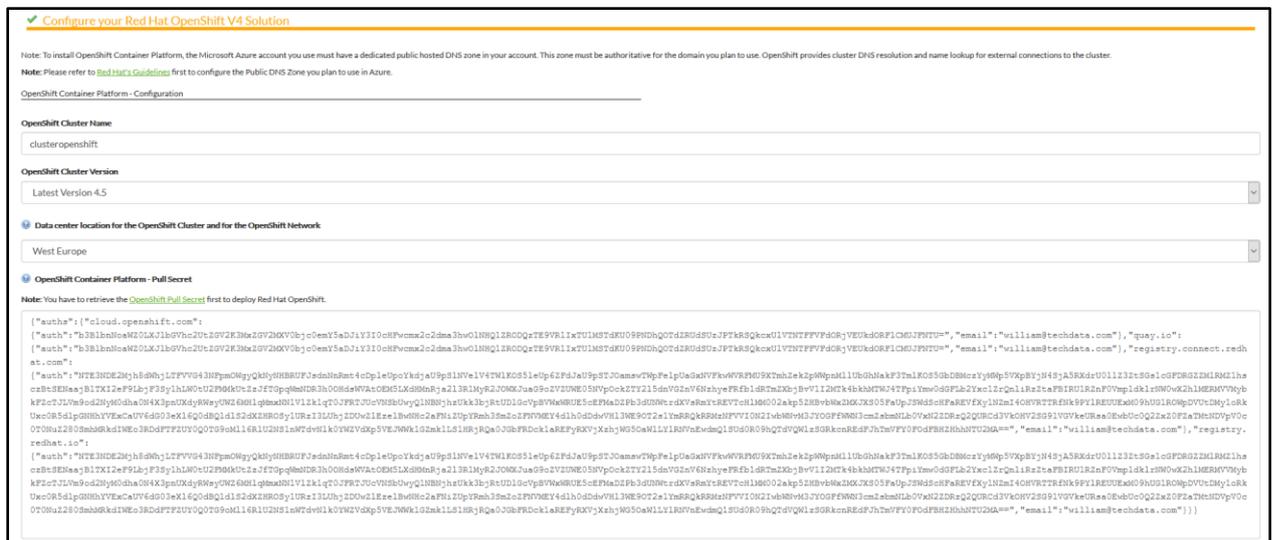
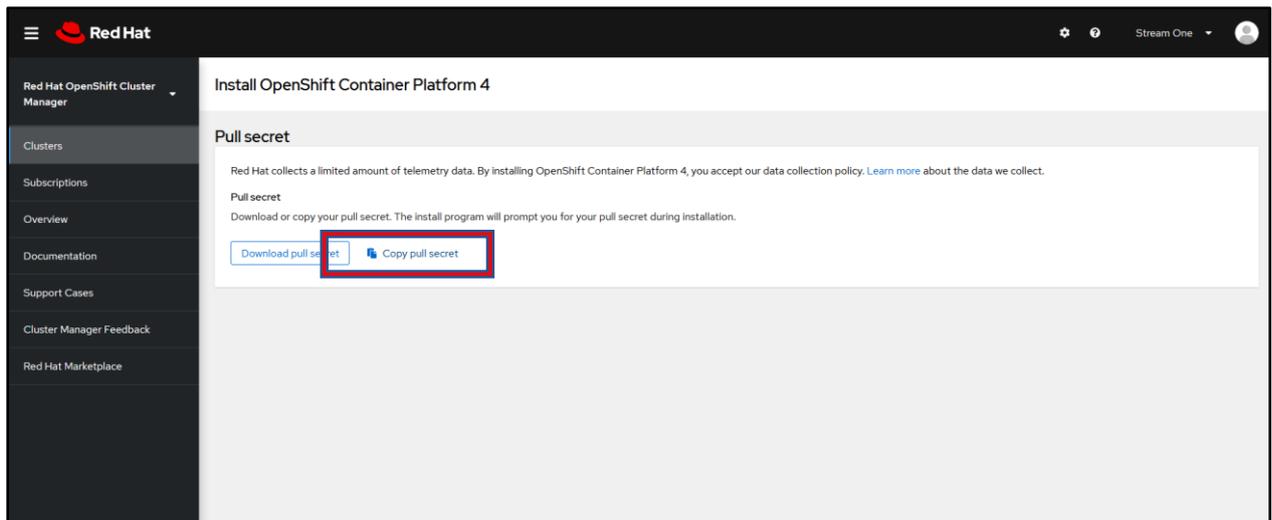
1) OpenShift Container Platform – Configuration.

Here you will have to select:

- A Cluster Name
- The OpenShift Cluster Version (we use the latest stable version)
- The Datacenter Location
- Your OpenShift Pull Secret

Please note that you have to retrieve your OpenShift Pull Secret from the mentioned link:

<https://cloud.redhat.com/openshift/install/pull-secret>



2) OpenShift Cluster – Network Configuration.

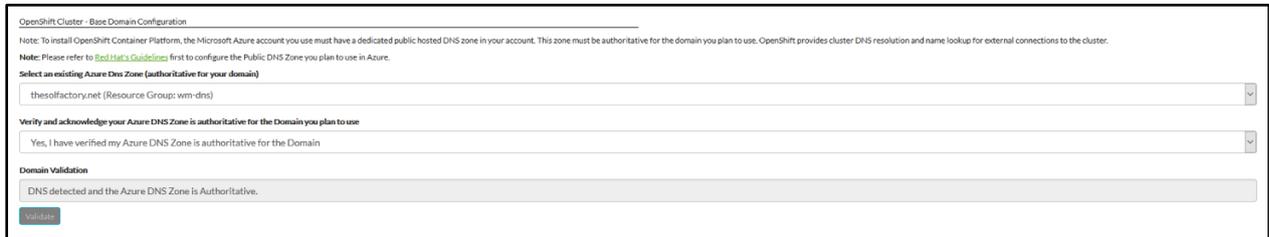
Here you will choose a Resource Group name for the OpenShift Cluster Network



4) OpenShift Cluster – Base Domain Configuration

Here you will have to:

- Select the existing DNS Zone
- Acknowledge your DNS Zone is authoritative for the Domain you plan to use
- Click validate on the “Validate Button”



OpenShift Cluster - Base Domain Configuration

Note: To install OpenShift Container Platform, the Microsoft Azure account you use must have a dedicated public hosted DNS zone in your account. This zone must be authoritative for the domain you plan to use. OpenShift provides cluster DNS resolution and name lookup for external connections to the cluster.

Note: Please refer to [Red Hat's Guidelines](#) first to configure the Public DNS Zone you plan to use in Azure.

Select an existing Azure DNS Zone (authoritative for your domain)

thesoftwarefactory.net (Resource Group: wm-dns)

Verify and acknowledge your Azure DNS Zone is authoritative for the Domain you plan to use

Yes, I have verified my Azure DNS Zone is authoritative for the Domain

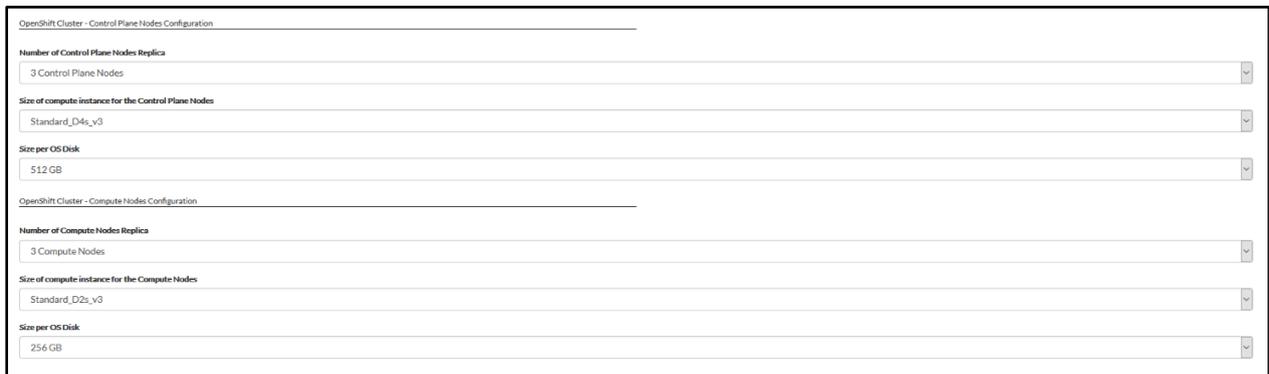
Domain Validation

DNS detected and the Azure DNS Zone is Authoritative.

Validate

5) OpenShift Cluster – Nodes Configuration

Select the Control Plane Nodes and the Compute Nodes Configuration:



OpenShift Cluster - Control Plane Nodes Configuration

Number of Control Plane Nodes Replicas

3 Control Plane Nodes

Size of compute instance for the Control Plane Nodes

Standard_D4s_v3

Size per OS Disk

512 GB

OpenShift Cluster - Compute Nodes Configuration

Number of Compute Nodes Replicas

3 Compute Nodes

Size of compute instance for the Compute Nodes

Standard_D2s_v3

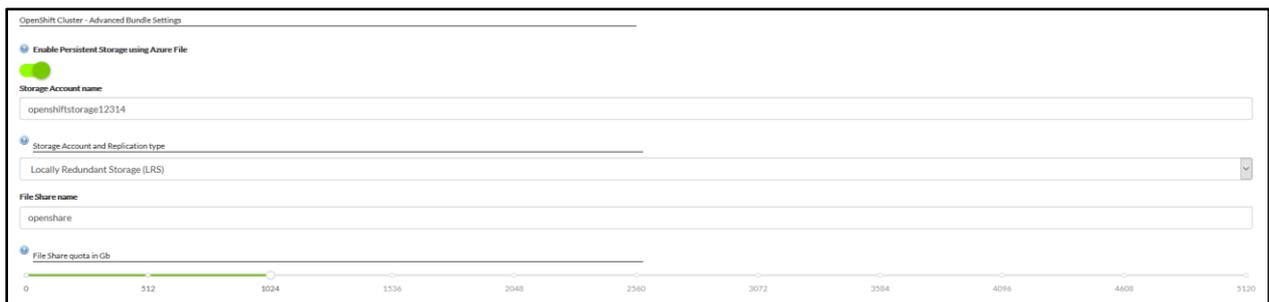
Size per OS Disk

256 GB

6) OpenShift Cluster – Advanced Bundle Configuration

a. Use Azure File as a Storage Class for Persistent Storage

We have added up the possibility to Enable Persistent Storage using Azure File Share:



OpenShift Cluster - Advanced Bundle Settings

Enable Persistent Storage using Azure File

Storage Account name

openshiftstorage12314

Storage Account and Replication type

Locally Redundant Storage (LRS)

File Share name

openshare

File Share quota in Gb

0 512 1024 1536 2048 2560 3072 3584 4096 4608 5120

b. Enable FIPS and Endpoints

You can choose to enable FIPS and how you want to publish your endpoints



Enable FIPS

Endpoints - Advanced Settings

Private or public facing endpoints

Public Facing Endpoints

c. Azure Key Vault

We are deploying an Azure Key Vault where we store the default Kube admin password and the Kube config file.

You would need to grant access post deployment to the users who would like to access these files.



Azure Key Vault - Advanced Settings

Azure Key Vault Resource Group Name

KeyVault-RG

Azure Key Vault Location

West Europe

Finally click on the “Deploy Now” button!

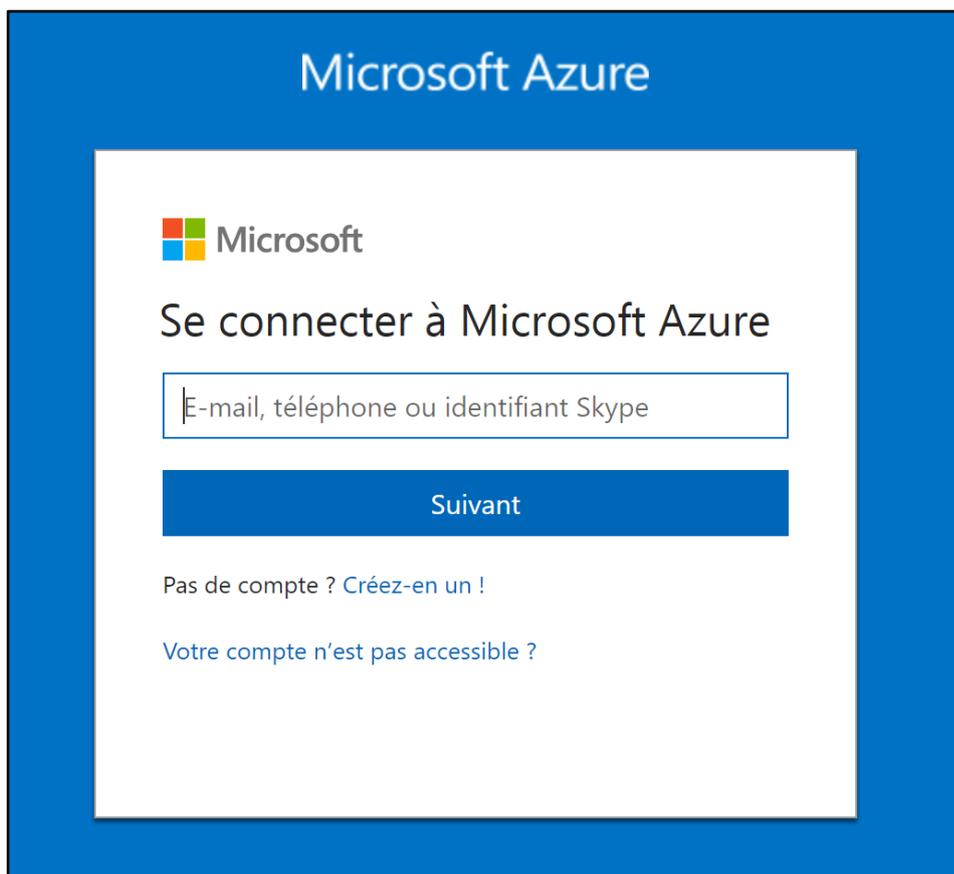


Deploy Now

1.3 How to connect.

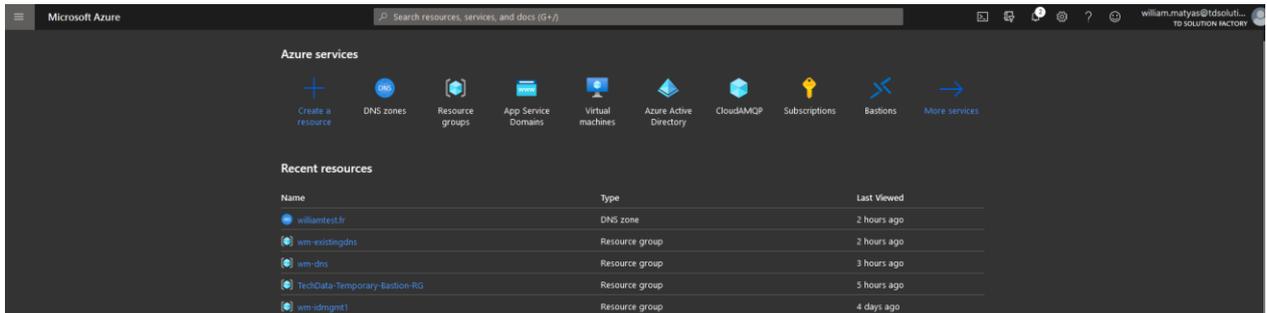
Connect to the Azure Portal with your credentials.

- You would need to login to the Azure portal to get the IP address.
 - <https://portal.azure.com>
 - You would need to login using the same user name and password as the one created in StreamOne and what was emailed to you.
- For example: john.doe@contoso.onmicrosoft.com
- It will give you a one-time password and you will need to change it.

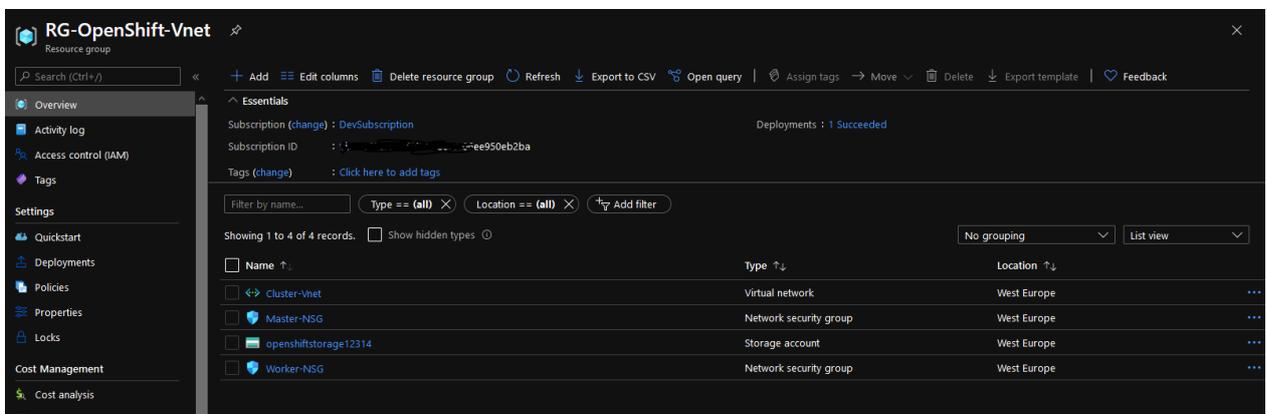


The image shows a screenshot of the Microsoft Azure login page. The page has a blue header with the text "Microsoft Azure". Below the header is a white box containing the Microsoft logo and the text "Microsoft". The main heading is "Se connecter à Microsoft Azure". There is a text input field with the placeholder text "E-mail, téléphone ou identifiant Skype". Below the input field is a blue button labeled "Suivant". At the bottom of the white box, there are two links: "Pas de compte ? Créez-en un !" and "Votre compte n'est pas accessible ?".

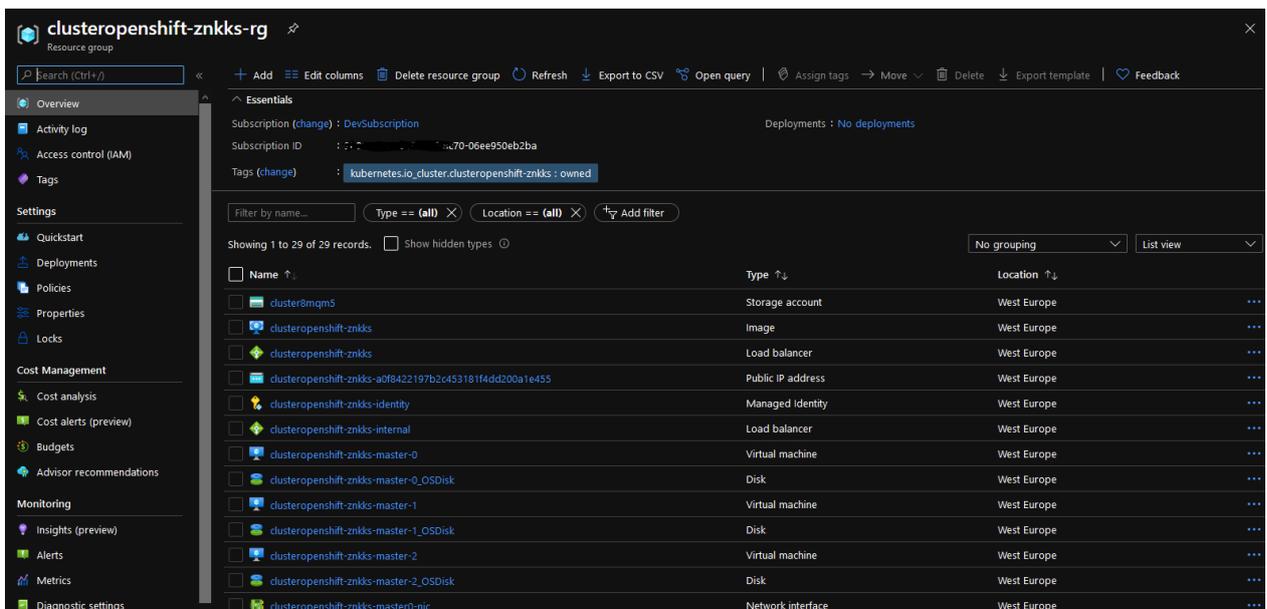
You will then be connected to the Azure Portal. Go to Resource groups.



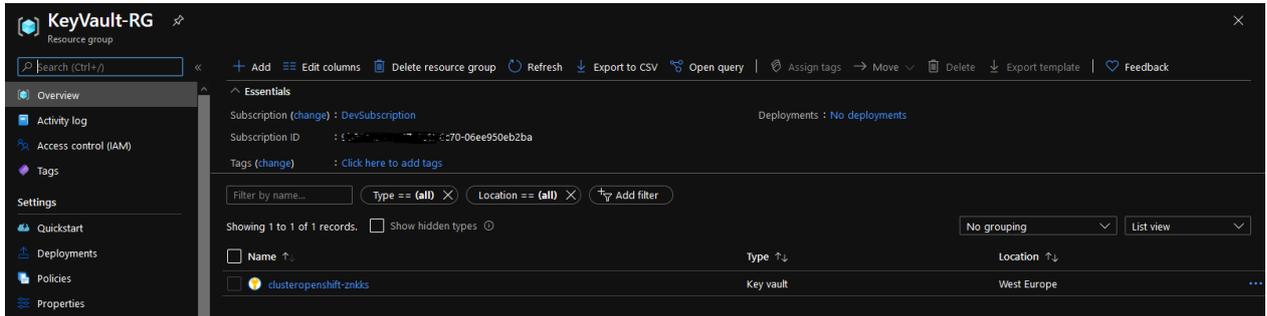
You will find the Resource Group your Network Resources got deployed.



The other one where your cluster got deployed:



And finally, the Resource group where your Azure Key Vault got deployed:

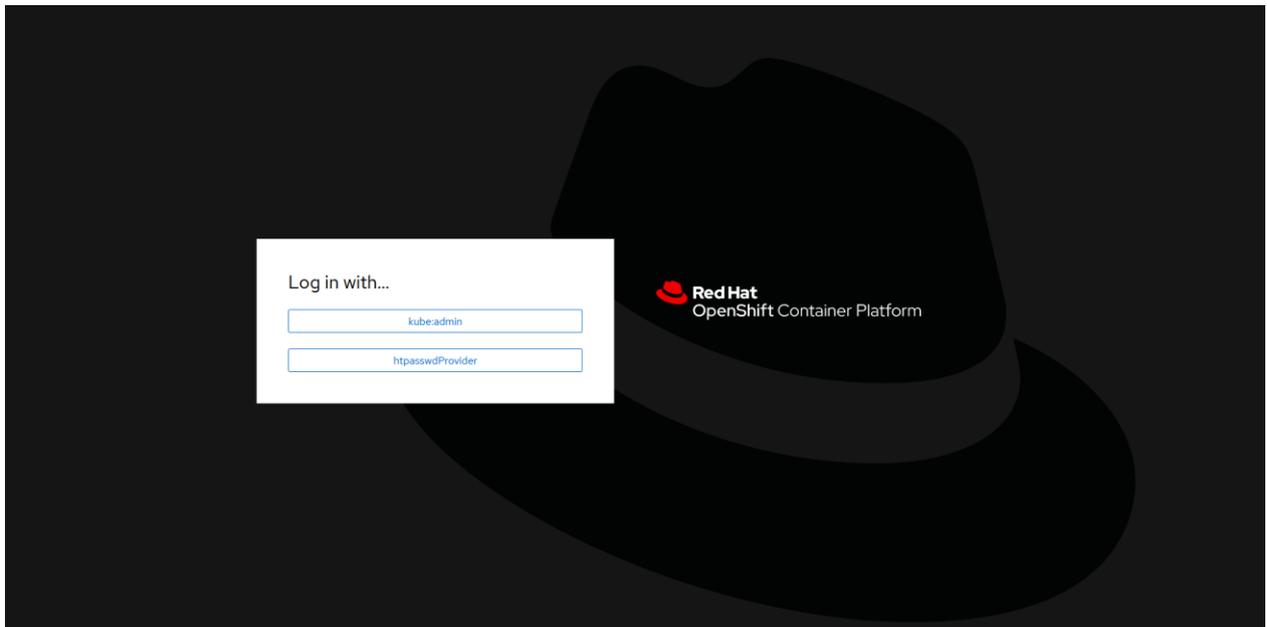


Then, to connect to the OpenShift Web Console, you will need to go to a URL in the form of: <https://console-openshift-console.apps.<clustername>.<domain>>

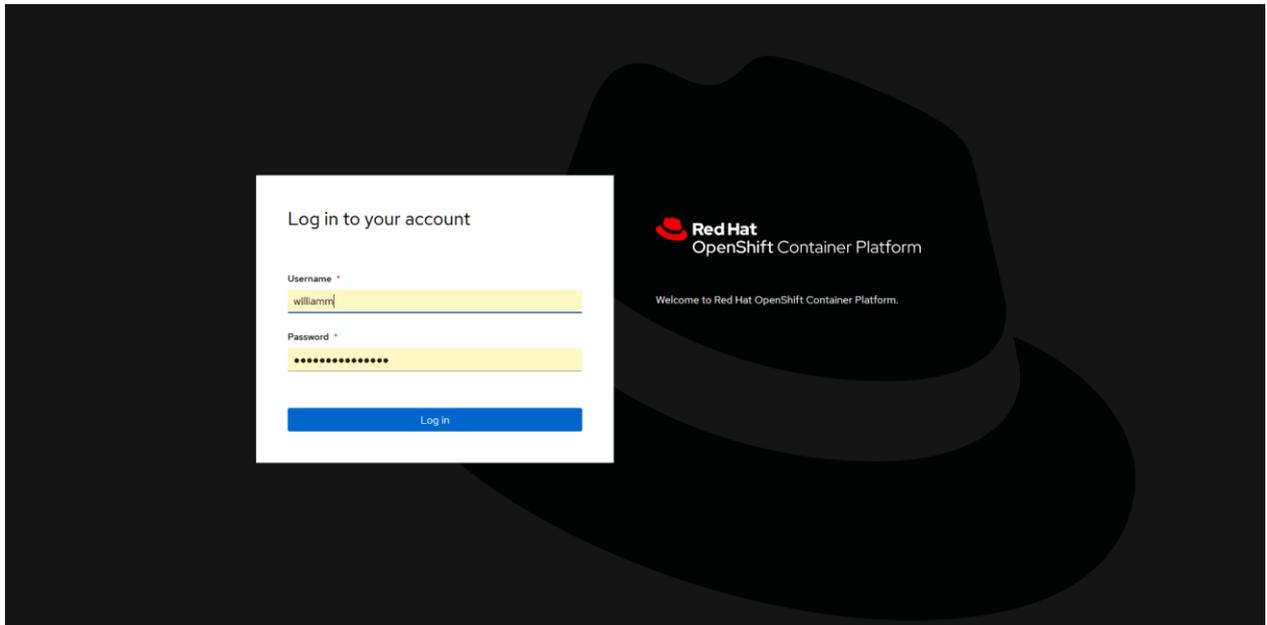
Like:

<https://console-openshift-console.apps.clusteropenshift.thesolfactory.net/>

To connect, you will need to click on “htpasswdProvider”.



And use the Username and the Password you chose during the order.



You will then be connected to the OpenShift Web Console.

