

Tech Data

Red Hat OpenShift Container Platform v4

Red Hat OpenShift Container Platform on Microsoft Azure - Step-by-Step

Page 1



Contents

1	Fech Data Red Hat OpenShift Container Platform Step by Step	
1.0	Things to know prior to using this Guide	3
1.1	Pre-deployment steps	4
1.2	2 Red Hat OpenShift Container Platform on Azure deployment	11
1.3	3 How to connect	25



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

- $_{\odot}$ 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:

≡	Microsoft Azure		P Searc	h resources, servici	es, and docs (G+,/)] 0	. 6	0 ¢		william.matyas@tdsoluti TD SOLUTION FACTORY
		Azure servi	ices												
				.	-	٩	i	Ŷ		-					
			Resource groups	Virtual machines	App Service Domains	Azure Active Directory	CloudAMQP	Subscriptions	Bastions	DNS zones					
		Recent reso	ources												
		Name				Туре				Last Viewed					
		🔘 TechData-T				Resourc	e group			2 hours ago					
		问 wm-dns				Resourc	e group			3 days ago					
		williamtest:				DNS zor	ie -			4 days ago					
		🔘 wm-existin				Resourc	e group			4 days ago					

Search for an App Service Domain:

Microsoft Azure	$\mathcal P$ app service domains	×	2 G Q	@?©
Azure services	ServicesSee all	Marketplace		
	App Service Domains	app Service Domain (Preview)		

Click on Add:



Search for an available Domain:

App Service Domain	
Click to fry the newer version of the App Service Domains create experience.	
Search for domain	
the solution factory fr	
Select from available domains	
C yoursolutionfactory.com	



Create a new Resource Group:



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

App Service Domain	
Click to try the newer version of the App Service Domains create experience.	
Search for domain	
the solution factory. fr	
Contract with the dominant	
Serect from available Gommans	
☑ mysolutionfactory.net	
thesolutionfactorydirect.co.uk	
yoursolutionfactory.com	
Subscription * O	
DemoSubscription	
(New) dns-RG	
Product Information	
Acchied	
Accepted	
*Leal Tems	
Accented	

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

(●) wm-dns ☆ Resource group					×
P Search (Ctrl+/) 《	🗧 🕂 Add 📰 Edit columns 💼 Delete resource group 🖒 Refresh 🞍 Export to CSV 😤 Open qu	ery \mid \oslash Assign tags \rightarrow Move \lor $\hat{\blacksquare}$ C		Feedback	
Overview	^ Essentials				
Activity log	Subscription (change) : DevSubscription	Deployments : No deployments			
🎘 Access control (IAM)	Subscription ID : 9b801453-ec47-4e1f-8c70-06ee950eb2ba				
🧳 Tags	Tags (change) : Click here to add tags				
Settings	Filter by name				
📣 Quickstart	Showing 1 to 2 of 2 records.		No grouping \sim	List view	
📤 Deployments	□ Name ↑↓	Туре ↑↓	Location $\uparrow \downarrow$		
Policies	🗌 🚍 thesolfactory.net	App Service Domain	Global		
🔁 Properties	🗌 💿 thesolfactory.net	DNS zone	Global		
🔒 Locks					



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:

=	Microsoft Azure	Г	P Search	resources, service	es, and docs (G+,/)						7	Ş	æ ?	william.matyas@tdsoluti TD SOLUTION FACTORY
		Azure service	es											
			()	!	-		(Ŷ		-				
			Resource groups	Virtual machines	App Service Domains	Azure Active Directory	CloudAMQP	Subscriptions	Bastions	DNS zones				
		Recent resou	irces											
		Name				Туре				Last Viewed				
		TechData-Ten				Resourc	e group			2 hours ago				
		问 wm-dns				Resourc	e group			3 days ago				
		williamtest.fr				DNS zo	ne			4 days ago				
		() wm-existingd				Resourc	e group			4 days ago				

Search for DNS Zones:

Microsoft Azure		𝒫 dns		\times	E	Ŗ		
		Services	Marketplace					
	Azure services	DNS zones	📋 DNS zone					
		Private DNS zones	Drs Safety Filter					

Click on Add:

🕂 Add 🛞 🛿 anage view 🗸 🖒 Refresh 🞍 Export to CSV ổ Open query 📔 🖗 Assign tags 📔 🛇 Feedback 🛱 Leave preview	DNS zones 🖉 TD Solution Factory	
	🕂 Add 🎯 🛿 anage view 🗸 🖒 Refresh 🞍 Export to CSV 😤 Open query 📔 🖗 Assign tags 📔 🛇 Feedback 🦨 Leave preview	

Create a new Resource Group.

Create DNS zone	
Basics Tags Review + create A DNS zone is used to host the DNS recor number of DNS records such as 'mail.comt allows you to host your DNS zone and ma queries from end users with the DNS reco	rds for a particular domain. For example, the domain 'contoso.com' may contain a toso.com' (for a mail server) and 'www.contoso.com' (for a web site). Azure DNS anage your DNS records, and provides name servers that will respond to DNS ords had you create. Learm order.
Project details	
Subscription *	DevSubscription V
Resource group *	(New) ExistingDNS-RG V Greate new V



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

Home > DNS zones >		
Create DNS zone		
Reside Taris Review + create		
lags Review Cleate		
A DNS zone is used to host the DNS recor	rds for a particular domain. For example, the domain 'contoso.com' may contain a	
number of DNS records such as 'mail.cont allows you to bost your DNS zone and ma	toso.com' (for a mail server) and 'www.contoso.com' (for a web site). Azure DNS inage your DNS records, and provides name servers that will respond to DNS	
queries from end users with the DNS reco	rds that you create. Learn more.	
Project details		
Subscription *	DevSubscription V	
Resource group *	(New) ExistingDNS-RG	
	Create new	
Instance details		
This zone is a child of an existing zon	e already hosted in Azure DNS (0)	
Name *	williamtest.fr 🗸	
Resource group location (1)	West Europe	
Review + create Previous	Next : Tags > Download a template for automation	

Review and Create.

You will then have your DNS Zone deployed:

(wm-existingdns Resource group							
P Search (Ctrl+/)		🕂 Add 📰 Edit columns 📋 Delete resource group 🖒 Refresh 🞍 Export to CSV 😤 Open query 🛛 Assign tags -	→ Move ∨ 🛍 Delete 🛓 Export template 🛇 Feedback				
Overview	î.	↑ Essentials					
Activity log							
Access control (IAM)		Subscription ID : 9b801453-ec47-4e1f-8c70-06ee950eb2ba					
🥏 Tags							
Settings	L	Filter by name					
📣 Quickstart		Showing 1 to 1 of 1 records. Show hidden types ①			No grouping 🗸 🗸	ist view	
📤 Deployments		Name 🛧	Type ↑↓	Loci	ation ↑↓		
Policies	L	🗌 🍥 williamtest.fr	DNS zone	Glob	bal		
🚝 Properties							

Click on the DNS Zone and note the Name Servers:

SWS zone williamtest.fr 🖉						>	<
	$+$ Record set $+$ Child zone \rightarrow Move \vee 📋 Delete	zone 🖒 Refresh					
😑 Overview							
Activity log			Nat	me server 1 : ns1-01.azure-dns.com.			
Access control (IAM)			Nai	me server 2 : ns2-01.azure-dns.net.			
🧳 Tags	Subscription ID : 9b801453-ec47-4e1f-8c70-06ee950	Jeb2ba	Nai	me server 3 : ns3-01.azure-dns.org.			
Diagnose and solve problems	Tags (change) : Click here to add tags						
Settings	You can search for record sets that have been loaded on this	page. If you don't see what you're looking	for, you can try scrolling to allow more r	record sets to load.			
Properties							
🔒 Locks	Name	Туре		Value	Alias resource type	Alias target	
Monitoring			172800	ns1-01.azure-dns.com. ns2-01.azure-dns.net. ns3-01.azure-dns.org.			
Alerts				ns4-01.azure-dns.info.			
Metrics			3600	Email: azuredns-hostmaster.microsoft Host: ns1-01.azure-dns.com. Refresh: 3600 Retry: 300			
🟚 Tasks				Expire: 2419200 Minimum TTL: 300 Serial number: 1			
- export template	api.mycpdcluster	CNAME	300	mycpdcluster-wfb7c.westeurope.cloud			
Support + troubleshooting	*.apps.mycpdcluster			51.105.222.253			
📯 New support request							

Red Hat OpenShift Container Platform on Microsoft Azure - Step-by-Step

Page 7



Go to your registrar and Manage your DNS:

Domains Y Buy & Sell Y DNS Y	Settings ~ Help ~		
My Domains			Search your domain names Q 三 荘
Domains 🔻	Next Steps	Auto-Renewal	Protection Plan
williamtest.fr Expires on 25/08/2021	Use my domain Manage DNS	Ott	Not eligible
	Domain settings		

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



Red Hat OpenShift Container Platform on Microsoft Azure - Step-by-Step



Here enter our own nameservers:

DNS Management						
Connect My Domain to a Website						
Changing nameservers is risky, and could potentially lead to your website infrastructure, light-speed resolution and global reach.	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	面
ns2-01.azure-dns.net	圓
ns3-01.azure-dns.org	圓
ns4-01.azure-dns.info.	
	Add Nameserver
	Cancel Back Save

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
Nameservers
Last updated 22/09/2020 15:25
Using custom nameservers Change
Nameserver
ns1-01.azure-dns.com
ns2-01.azure-dns.net
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:

		Reselle	er Resource Center Reseller Portal Contact Cart 🖼 .ogged in as William.Matyas@azlan.com [Log Off]
STREAM IN NE Software and Services on Demand			Search
You are currently ordering for Aida Dzinovic of TECH DATA	FINLAND OY EI TILAUKSIA Change Rese	ller	
Home Browse By Categories Browse By Vendor			
BitTitan	DČ		
Office 365 automate migration and deplo	ed assessment, yment		ESELLER RESOURCE CENTER
Better margins for you, bette	r experiences		How to get started Video demos
for your customers			FAQs
• •			
Notific Dear reseller, We are pleased to announce that Stream platform reaches now 17 European countries, strengther	actions One is now live in Slovakia. With this add ning the TD Cloud presence in Europe.	ition the	Explore Resources
Most Viewed	Newest	1	Partner Links
Office 365 Enterprise SaaS Microsoft Office Application	UAT TEST Sprint 3.30 Microsoft Cloud Storage	SaaS	> Go back to Tech Data > Reseller Portal
Microsoft Azure IaaS/PaaS Microsoft	Automation_MSP_Listing_FIN oneQATest Cloud Storage	SaaS	Advertisement
BitTitan Cloud Enablement Services SaaS BitTitan Encryption	Microsoft Annual Billing Microsoft Email Archiving	SaaS	kohta kohdalta suomeksi!
Automation Listing FIN SasS oneQATest Migrations Tools	Cisco Spark – Prepaid Annual Cisco Communications	SaaS	
Cisco Spark- Monthly SaaS Cisco Communications	Intercompany Test IBM Soffiayer Cloud Storage	SaaS	

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:

	Reseller Resource Center Reseller Portal Contact Cart 🛒
STDEAM	Logged in as William.Matyas@azlan.com [Log Off]
Software and Services on Demand	Azure Find
You are currently ordering for Aida Dzinovic of TECH DATA FINLAND OY EI TILAUKSIA Change Reseller	

Red Hat OpenShift Container Platform on Microsoft Azure - Step-by-Step



Click on Microsoft Azure:

					Reseller Res
	NE				Logge
You are currently orde	ering for Aida D	zinovic of TECH DATA	FINLAND OY EI TILAUKSIA	Change Reseller	
Home Browse B	y Categories	Browse By Vendor			
PRODUCT SEARCH R	RESULTS FOR	'Azure'			
IaaS/PaaS	Microsoft Azure i quickly build, dep of Microsoft-Azure is Infrastructure as Cloud Storage Si With Tech Data, covers everything instance, and mij have partnered v services for Azur Details	s a market leading cloud platfo loy, and manage applications i aged datacentres. Microsoft pri a Service, Application Platform ervices you can sell the complete Azur g from assessing cloud readine grations to ongoing manageme vith NetEnrich allowing reseller e. Screenshots	m that enables you to across a global network ovides Cloud as a Service, and e experience. This ss to spinning up a VM nt of assets. Tech Data s to offer white-labelled		CLICK FOR DETAILS

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

Register
+\ <u>\</u>
+\Ţ
+\;;
+\Ţ
+\;;
+\Ţ
+\ <u></u>
+\Ţ



Click on "View Cart" button:

Home Browse By Categories Browse By Ver	ldor	
Home >> UC and Productivity >> Microsoft Azure		
Microsoft Azure	by Microsoft Microsoft Azure is a market leading cloud platform that enables you to quickly build, deploy, and manage applications across a global network of Microsoft-managed datacentres. Microsoft provides Cloud Infrastructure as a Service, Application Platform as a Service, and Cloud Storage Services whis covers everything from assessing cloud phis covers everything from	
Shop by Product Name	Cart: 1 Item Azure Account Creation 1 Unit Based On Usage	
Search: Search By Keyword, TD#, MFi Name Azure Account Creation TD# SK6387 MFR#: MS-AZR-0145P	Continue Shopping View Cart Display: 10	

Click on 'Proceeed to Checkout' button:

Quantity	Date Added	Product Number	Product Details	Payment Details	Each	Total	
1	07/05/2018	TD#: SK8387 Mfn#: MS-AZR- 0145P	Microsoft Azure Azure Account Creation <u>Details</u>	Per month, beginning on: 27/05/2018*	Based on Usage	Based on Usage	<u>Remove</u>
	1	1			Total	€0,00	
Dur billing (ut date is by th a monthly basi	re subject to change. S ne 27th of each month s depending on your	ee the Order Summar n. Your account will b consumption. You c	y page at time of check be activated from the an cancel the subscri	out for the actu lay of purchas ption at any gi	al unit pricing se and you v iven time fro	9. vill be m the
Dur billing (charged on Reseller Po Fhere is cu	cut date is by th a monthly basi rtal. rently no end u	re subject to change. S ne 27th of each month is depending on your iser assigned to this o	ee the Order Summar, n. Your account will b consumption. You c order. Click 'Proceed	y page at time of check be activated from the an cancel the subscri I to Checkout' to assig	out for the actu lay of purchas ption at any gi In one.	al unit pricing se and you w iven time fro	g. vill be m the



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

Software and Services on Demand	Checkout Logged in with ID: 345802 Log Out
Cart — End Customer Info — Azure Settings — Config	guration \longrightarrow Payment \longrightarrow Summary \longrightarrow Complete
< Return to Shopping	③ Sales and Customer Support: <u>+358 20 1553 694</u>
O 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:* Techdata France	
First Name:* Last Name:* William Matyas	Title/Position: Cloud Architect
Phone Number:* 0033682323069	
End Customer Email:* william.matyas@techdata.com	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
Confirm End Customer Email:* william.matyas@techdata.com	during the next step in the Account Administration section.
Address Line 1:* 142 avenue de Stalingrad	
Address Line 2:	



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.

Cart End Customer Info Configuration	Payment
< Return to Shopping	
Microsoft Partner Network ID	
Please verify your MPN ID:*	
4993596 Change	
End Customer Microsoft Account	
Which end customer Microsoft account would you like to use for this order?*	
Transfer an Advisor, Open, or Trial account	
Create a New end customer Microsoft account	
Please enter a new primary domain name:	
azrhos11td.onmicrosoft.com	
Change	
> Existing end customer Microsoft account	
Account Administration	
Who should receive the account credentials?	
The End Customer (ryan.berger@techdata.com)	
I would like to specify a custom account email address	
Continue to Payment	

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.

End Customer Information	Change	Configuration	Chang
Ryan Berger's Burgers		Microsoft Account Domain: azrhos11td.onmicrosoft.com	
Ryan Berger B+B York		Credentials will be sent to:	
15 St. Peters Grove York, YO30 6AQ, United Kingdom ryan.berger@techdata.com		ryan.berger@techdata.com	
Order Summary			Edit Ca
Quantity Product		Price Each	Total
1 Red Hat OpenShift		Based on Usage	Based on Usage
Red Hat OpenShift You will be billed based on acc	ount usage		
Have a promo code?			Total: £0.00
Payment Method	Change	Or Terms and Conditions	
Reseller PO Number: 1234		I have read and agree to the Rese Marketplace Terms*	ller
		I have read and agree to Vendor T Microsoft*	ferms For
Payment Method: Terms			
Payment Method: Terms			

Your order should be complete.



Return to Shopping

Order Complete

Order #\$000186103

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

To check the status of your order please visit the **<u>Reseller Portal</u>** and view <u>Order Tracking</u>

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 999999999 S1QATestingEmail@techdata.com

End Customer Information:

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

Items Purchased

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



You should receive an email with your Microsoft Subscription Information:

Microsoft Cloud Service Provider	
Deþr William Malyas,	
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@williamtealocp.com/crosoft.com	
Pasaward: ······	
Your Subscriptions:	
Name	Quantity
Azure Account Creation	1

And another email regarding the deployment of your Azure Bundle:

	Microsoft Az	cure	
Hi!			
Your Azure Bund	dle has been deployed!		
find the details below			
Sales Order Details			
Sales Order Details Sales Order #:	S000186148		
Sales Order Details Sales Order #: Reseller PO:	S000186148 test	_	
Sales Order Details Sales Order #: Reseller PO: End Customer PO:	S000186148 test		
Sales Order Details Sales Order #: Reseller PO: End Customer PO: Account Number:	S000186148 test 0000345802		
Sales Order Details Sales Order #: Reseller PO: End Customer PO: Account Number: End Customer Ema	S000186148 test 0000345802 il: william.matyas@techdata.com		
Sales Order Details Sales Order #: Reseller PO: End Customer PO: Account Number: End Customer Ema	S000186148 test 0000345802 il: <u>william.matyas@techdata.com</u>		
Sales Order Details Sales Order #: Reseller PO: End Customer PO: Account Number: End Customer Ema Bundle Details	S000186148 test 00000345802 il: william.matyas@techdata.com		
Sales Order Details Sales Order #: Reseller PO: End Customer PO: Account Number: End Customer Ema Bundle Details Bundle Name:	S000186148 test 0000345802 ill:william.matyas@techdata.com Red Hat OpenShift		
Sales Order Details Sales Order #: Reseller PO: End Customer PO: Account Number: End Customer Ema Bundle Details Bundle Name: Subscription Id:	S000186148 test 0000345802 ill:william.matyas@techdata.com Red Hat OpenShift 475e5e96-bf99-4ab9-ab76- a9d5fbfd9a32		
Sales Order Details Sales Order #: Reseller PO: End Customer PO: Account Number: End Customer Ema Bundle Details Bundle Name: Subscription Id: Datacenter Location	S000186148 test 0000345802 il: william.matyas@techdata.com Red Hat OpenShift 475e5e96-bf99-4ab9-ab76- a9d5fbfd9a32 n: West Europe		



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

T) Tech Data		Reseller Reso	rce Center Reseller Portal Contact Cai 🛒
Preciribata Stream	One" Cloud Marketplace		Search Find
You are currently ordering for Aida ad	dzinovic of Tech Data Change Reseller		
Home Browse By Categories	Browse By Vendor		
Welcome Tech Data 703212		Bearch	Address Book Find
Home Page			
Orders			
Insights	Show 100 entries		Search: ryan.b
Recurring Billing	Company	- 🔶 Email	¢
Customer Admin	Ryan Berger's Burgers	ryan.berger@techdata.com	
Address Book	SaaS laaS/PaaS	Billing Quotes Con	apany info
Opportunities	Showing 1 to 1 of 1 entries (Filtered from 37 tota	al entries)	First Previous 1 Next Last
My Profile			

Then Click on Modify:

							both infrastructure- as-a-service and platform			
16/01/19 05:52:PM CET	S000260371 Sandbox	StreamOne	Microsoft	MS-AZR- 0145P	SK7608	azrhos11td	Azure Account Creation Microsoft's cloud platform, an industry leader for both infrastructure- as-a-service and platform	1	C	Modifi
Showing 1 to 1	2 of 12 entries							F	rirst Previous	1 Next Last



Then click on "Click to Configure":

					Search		Find
You are current	lly ordering for Aida adzinovic of Tech	Data Change Rese	ller				
Home Bro	03212	indor	Search		Address Book	Find	
Home Page							
Orders	Status of Subscription	Curre	nt Billing Cycle	Current Budget	Subsc	ription Usage	
nsights	Active	12/01/2	.019 - <mark>1</mark> 1/02/2019	£0.00		£ <u>0.00</u>	
Recurring Billing				edit			
Customer Admin							Disclaimer: Data update
Address Book		ι	Jsage Threshold I	Notification at: 0% edit			
Opportunities							
My Profile	Reseller Information Reseller PO#: 1234			End User Information End User PO#:			
	Tech Data Wesser House, Oxford Road Cl Basingsloke, Hampshix RG14 S10ATestingEmail@techdata.cr 1231223111	nineham Business Par 1PA GB 2m	k	Ryan Berger's Burgers Ryan Berger B+B York 15 St. Peters Grov York YO30 6AQ ryan berger@techdata.com 3526502341	/e		
	Subscription Settings Domain: azrhos11ld Subscription name: Microsoft A	szure edit					
	Order # Vendor M	lame	Delegate Mana	ge Status suspended / active	Created On	Modified On	Need to access your e user's subscription
	S000260371 Microsoft A Sandbox	zure Registration Base Subscription	Delegate		16/01/2019 05:22 PM CET	16/01/2019 05:52 PM CET	for more information on how started.
	COOO260271 Microsoft A	zure Bundle			16/01/2019	16/01/2010	

Information related to selected bundle should be displayed.

Configure your Red Hat Depressive Values der Drauber Parker Red Hat Depressive Value Parker values der Drauber Parker Red Hat Depressive Parker Values der Drauber Parker Values der Dra	
the ball by ball balance has been to be the transmission of the balance has been to be the transmission of the balance has been to be the balance has balance has been to be the balanc	Configure your Red Hat OpenShift V4 Solution
set is real logicity of catter relation. Set for out that are a decided point out to accord to us on multice and decided point out to the docation you got to us to got that provide docts to the docation of the docation you got to us to got that provide docts to the docation of the docation you got to us to got that provide docts to the docation of the docation you got to us to got that provide docts to the docation of the docation you got to us to got the docation of the docation you got to us to got the docation you got to us to got the docation of the docation you got to us to got the docation of the docation of the docation you got to us to got the docation of the docation of the docation you got to us to got the docation of the docation	
ddr Paker Helen Stafferforder Berlen Stafferforder	Note: To install OpenShitt Container Platform, the Microsoft Azure account you use must have a dedicated public hosted DNS zone in your account. This zone must be authorizative for the domain you plan to use. OpenShitt provides cluster DNS resolution and name lookup for external connections to the cluster.
yendhi Catter Heters Orfgenton yendhi Catter Heters Orfgenton	Note: Please refer to <u>Red Hal's Guidelines</u> thrst to configure the Public DNS Zone you plan to use in Azure.
perihih Cluter Haues	OpenShift Container Platform - Configuration
pardAir Clarker Version 4.5	Opershift Cirster Name
periodi Cluster Aluis Descenter and Configuration product Cluster Aduit Descenter product Clus	
Letter Varian 43 v I de career location for the OpenShift Network v Select an available Acture Region v OpenShift Charler # Mattions - Mail Sereet v openShift Charler # Mattions - Mattiffications - Mattions - Matt	Qeedhit Cluter Version
P decenter laction for the Opendbilt Network Section available Acture Region Opendbil Container Platform - National Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Red Hat Opendbilt Partial The Control for Dependebilt Network Control for Dependebilt Partial The Control for Dependebilt Network Co	Latest Version 4.5
Select an available Ature Region v	Data center location for the OpenShift Cluster and for the OpenShift Network
	Select an available Azure Region
Met You have to retrieve the <u>Queckhild Loger</u> fact to deploy Red Held Operakit. Fastis the contents of your licenses file here persint Cuter - Network Configuration persint Cuter - Network Configuration persint Cuter Advis Configuration persint Cuter Advis Usernaue persint Cuter Advis Usernaue persint Cuter Advis Usernaue	OperAdht Container Platform-Pull Secret
Faste the contents of your livense file here perchit Cluter - Network Configuration perchit Cluter - Network Configuration perchit Cluter Admin Configuration perchit Cluter Admin Configuration perchit Cluter Admin Usersame perchit Cluter Admin Usersame perchit Cluter Admin Usersame	Note: You have to retrieve the <u>Coenshit Pull Secret</u> first to deploy Red Hat OpenShit.
perdikh Cluster - Network Configuration source group name for the Operdikht Cluster Network perdikht Cluster - Cluster Admin Configuration perdikht Cluster - Admin Configuration perdikht Cluster Admin Vername perdikht Cluster Admin Personed perdikht Cluster Admin Personed	Paste the contents of your license file here
perdMrt Clarter - Network Configuration searce group name for the OperdMit Clarter Network perdMrt Clarter - Clarter Admin Configuration perdMrt Clarter - Admin Configuration perdMrt Clarter - Admin Versuure perdMrt Clarter Admin Personed perdMrt Clarter Admin Personed	
eserce group name for the OpenShill Claster Network perShill Claster Admin Configuration perShill Claster Admin Personed perShill Claster Admin Personed	OpenShit Cluster - Network Configuration
Jean Legandap Later La darie Vectual X	Reserve and to the Owner Real Charles Materials
perShift Cluster - Ouster Admin Configuration perShift Cluster Admin Username perShift Cluster Admin Username pershift Cluster Admin Persward anfrom OperShift Cluster Admin Persward	Resolute gi uliquinaite na tite Cytestani i Caster Herman k
penShif Cluster - Cluster Admin Configuration penShift Cluster Admin Usersame penShift Cluster Admin Paceword penShift Cluster Admin Paceword	
perchilt Claster Admin Vername perchilt Claster Admin Personerd aufem Operchilt Claster Admin Personerd	OpenShift Cluster - Cluster Admin Configuration
percentific Cluster Admin Viername percentific Cluster Admin Password anfrm OpersBelt Cluster Admin Password	
penahit Cluster Admin Pessword	OpenShittGusterAdminUsername
penehili Ckater Admin Password	
onfirm OpenShift Cluster Admin Password	Operahitt Cluster Admin Password
onfirm OpenShift Cluster Admin Password	
antern OpenShift Claster Admin Pessword	
	Confirm OpenStaft Clarker 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: <u>https://cloud.redhat.com/openshift/install/pull-secret</u>

😑 🕒 Red Hat		¢	Ø	Stream One 👻	٩
Red Hat OpenShift Cluster Manager	Install OpenShift Container Platform 4				
Clusters	Pull secret				
Subscriptions	Red Hat collects a limited amount of telemetry data. By installing OpenShift Container Platform 4, you accept our data collection policy. Learn more about the data we collect. Pull accret				
Overview	Download or copy your pull secret. The install program will prompt you for your pull secret during installation.				
Documentation	Download pull se ret 🛛 👫 Copy pull secret				
Support Cases					
Cluster Manager Feedback					
Red Hat Marketplace					

Configure your Red Hat OpenShift V4 Solution	_
	Ξ.
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 <u>Red Hat's Guidelines</u> first to configure the Public DNS Zone you plan to use in Azure.	
OpenShift Container Platform - Configuration	
OperdAlf Clotter Name	
clusteropenshift	
OpenShift Cluster Version	
Latest Version 4.5	~
Data center focation for the OpenRHR Cluster and for the OpenRHR Network	
	m
WestEurope	~
Operchilt Container Flatform - PullSecret	
Note: You have to retrieve the <u>Querchith Bull Secret</u> first to deploy Red Hat OpenShift.	
("auth#":["cloud.opanshift.com":	
("***" *blibbleddUXUN07CbU20XD007CbU	1
at.com?: (*uuth*'TTINDOB3H)h56Kh1LFPV043HPmm0Rv0kHVHHBUVJsdnhAmt4cb1eUpoYxd13HPmm0Rv0kHVHHBUVJsdnhAmt4cb1eUpoS1eUpoFFJ3uU555L00msvTWFe1pUs5dNVFhvWVRPU5XThLakZeWkchillUb5h1kF3TmLK0555bDMczYVMb57XhB2+S5KXdrU01122z5Gs1c9FDR2ZHLHX1h	
28:28:28:3;3:TXI2eF9L;pT3y1hU0:U2B0K0:2zJf10pdwdDRJh00HdwWat0B5LdWabsp211R1by2J0KU52sWp0ekZT1215dsW5zV6hzbyeFREb1dR1m2Kp3v711JHr4bhMTW3TPp11mv0d8FLb2Txc1zga1szztaFBIRURZnFU0mp1dk1sW0WZh1MEBWW0gb	
F2:2:17.Web:0228/WidthamWidty:0728.001;djmxx11/12.Lign07F87U00/MSB/byg/012801 = Dutling: - D	4
070002280mbMdK41Wc3RDdFFF2UYQQT960H148UDMTV204p5VEXMK4Gzk1L51H5HQa000bFR0ck1aREFy5XV;XhyN05C0H1LTRWAzwm011000R06h2qTVVW1z9GkknREdFhhmVFY9F0dFH8HhhMTV204=""""""""""""""""""""""""""""""""""""	
redhat.io":	
(autor) and a set of the set of t	
kfzctJU%96d2NyM0da6N4X3pnUXdyM8yON26MI1qMmxh011112k1qt0JTRTJUcW15b0xyQ1NBijhzUk1bjRzUD16eVpBWnkWRUE5cEFMaD2Pb3dUNNtrdXVsRuYtREVTcH1b8002akp52HBvbNkzUKJX55FaUpJSNd5cHFaREVEXy1Nzm140HVRTTRHK9FY1EEUUExk09h001R0MpOVtcHxy1ak	c
Upc0841p0NhrVPskcsUP4603ex169d0g1d152d2ER093UUE11JUhy1UOv11ze1beNnt2aFh12Up7tPh1542a2Ex1F12Up7tPh154d2Ex1F12	4
A contract of the contract of	

2) <u>OpenShift Cluster – Network Configuration.</u> Here you will choose a Resource Group name for the OpenShift Cluster Network

OpenShift Cluster - Network Configuration Resource group name for the OpenShift Cluster Networ RG-OpenShift-Vnet

Red Hat OpenShift Container Platform on Microsoft Azure - Step-by-Step



3) OpenShift Cluster – Cluster Admin Configuration

Here you will have to input:

- Your OpenShift Cluster Admin Username
- Your OpenShift Cluster Admin Password

You will need these credentials to log into the OpenShift Console.

A SSH key pair will get generated and you need to download and save the private key. Once the OpenShift bundle is deployed in the Azure portal, you might need to use this Key to login into the underlying VMs.

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.

OpenShilt Cluster - Cluster Admin Configuration
Opershift Cluster Admin Username
willanm
Openshitt Chatter Admin Password
Confirm OperGhilt Cluster Admin Persound
SHPrinteKey
ESII BA FRUNE KE HILCOMERANDEWSKI SHONGAREFARASCHANDPAGGELAGERAJSM-SK) (S-EAT-DARDHyvenisTED hylYDDALGOWYDALWOZINAUCH (C) FDFTEAGBAST (C) FDFTEAGBAST (C) SHONGARE DATLALGOMERANDEWSKI SHONGAREFARASCHANDPAGGELAGERASCHANDERS VDATLALGOMERANDEWSKI SHONGAREFARASCHANDPAGGELAGERASCHANDERS VDATLALGOMERANDEWSKI SHONGAREFARASCHANDERS VDATLALGOMERANDEWSKI SHONGAREFARASCHANDERS VDATLALGOMERANDERS VDATLA
Download
Private Key secured
Your SSH Private Key's required to logon to the Bastion instance directly, Presentation with a safe place. Intell new be displayed again and Tech Data will keep no copy of IL.
Check the bar to proceed if you have secured your Private Key,



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 <u>Red Hat's Guidelines</u> first to configure the Public DNS Zone you plan to use in Azure.	
Select an existing Azure Dnz Zone (authoritative for your domain)	
thesolfactory.net (Resource Group: wm-dns)	~
Verify and acknowledge your Aner DIS Zone is authoritative for the Domain you plan to use	
Yes, I have verified my Azure DNS Zone is authoritative for the Domain	~
Donain 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 - Central Plane Nodes Configuration	
Number of Control Plane Nodes Replica	
3 Control Plane Nodes	~
Size of compute instance for the Control Plane Hodes	
Standard, D4s,v3	~
Size per OS Disk	
512 68	~
OperShift Clutter - Compute hodes Configuration	
named usungut nude spatial	~
Standard (22x y3	~
Store of 25 Disk	
25608	~

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 Se	ttings								
Enable Persistent Storage using Aze	ure File								
Storage Account name									
opensnirtstorage12314									
Storage Account and Replication typ	e								
Locally Redundant Storage (LRS)								~
File Share name									
openshare									
File Share quota in Gb									
0 512	1024	1536	2048	े 2560	о 3072	3584	4096	4608	0 5120

b. Enable FIPS and Endpoints

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

Double FIPS	
Endpoints - Advanced Settings	
Private or public facing endpoints	
Public Facing Endpoints	~ ~

Red Hat OpenShift Container Platform on Microsoft Azure - Step-by-Step



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.

Anze Koyouti - Advanced Settings	
Azure Keyvadt Resource Group Name	
Key Vault-RG	
Azure Reyvault Location	
West Europe	~
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: <u>john.doe@contoso.onmicrosoft.com</u>
- It will give you a one-time password and you will need to change it.

Microsoft Azure	
Microsoft Se connecter à Microsoft Azure	
E-mail, téléphone ou identifiant Skype Suivant	
Pas de compte ? Creez-en un ! Votre compte n'est pas accessible ?	



Microsoft Azure		P Search I	resources, service	s, and docs (G+/)						D.	R	P	₿ ?	william.matyas@tdsoluti TD SOLUTION FACTORY
	Azure service	s												
		<u></u>	()	_	.		6	Ŷ						
		DNS zones	Resource groups	App Service Domains	Virtual machines	Azure Active Directory	CloudAMQP	Subscriptions	Bastions					
	Recent resou	rces												
	Name				Туре				Last Viewed					
	williamtest.fr				DNS zo	ne			2 hours ago					
	🔘 wm-existingdr				Resource	e group			2 hours ago					
	🔘 wm-dns				Resource	e group			3 hours ago					
	TechData-Tem				Resource	e group			5 hours ago					
	🔘 wm-idmgmt1				Resource	e group			4 days ago					

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

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

RG-OpenShift-Vnet	. A				×
	+ Add 📰 Edit columns 📋 Delete resource group 🖒 Refresh 🞍 Export to CSV 😚 Open que	ry ∅ Assign tags → Move ∨ 🛍 D		Feedback	
Overview					
Activity log	Subscription (change) : DevSubscription	Deployments : 1 Succeeded			
Access control (IAM)	Subscription ID : (
🔷 Tags	Tags (change) : Click here to add tags				
Settings	Filter by name Type == (all) X Location == (all) X $+_{\nabla}$ Add filter				
📣 Quickstart	Showing 1 to 4 of 4 records.		No grouping \sim	List view	
🛆 Deployments	□ Name ↑↓	Туре ↑↓	Location 1		
Policies		Virtual network	West Europe		
🔤 Properties	🗌 🌻 Master-NSG	Network security group	West Europe		
🔒 Locks	🗌 🚍 openshiftstorage12314	Storage account	West Europe		
Cost Management	🗌 🌍 Worker-NSG	Network security group	West Europe		
\$ Cost analysis					

The other one where your cluster got deployed:

elusteropenshift-zn	kks-rg ≉			×
	🕂 Add 🗉 Edit columns 💼 Delete resource group 🖒 Refresh 🞍 Export to CSV 😤 Open o	uery ∅ Assign tags → Move ∨ 📋 D	Delete 🛓 Export template 🛇 Feedback	
Overview				
Activity log	Subscription (change) : DevSubscription	Deployments : No deployments		
Access control (IAM)	Subscription ID 1000 Compared Sucro-O6ee950eb2ba			
Tags	Tags (change) kubernetes.io_cluster.clusteropenshift-znkks : owned			
Settings	Filter by name			
📣 Quickstart	Shawing 1 to 29 of 29 records Shaw hidden types (1)		No grouping	
Deployments				
Policies	Name ↑↓	Type ↑↓	Location ↑↓	
🔁 Properties	cluster8mqm5	Storage account	West Europe	
A Lorks	🔄 🖳 clusteropenshift-znkks	Image	West Europe	
	🗌 💠 clusteropenshift-znkks	Load balancer	West Europe	
Cost Management	cluster openshift-znkks-a0f8422197b2c453181f4dd200a1e455	Public IP address	West Europe	
🎗 Cost analysis	🗌 🔒 clusteropenshift-znkks-identity	Managed Identity	West Europe	
Cost alerts (preview)	🔷 clusteropenshift-znkks-internal	Load balancer	West Europe	
③ Budgets		Virtual machine	West Europe	
Advisor recommendations	=	Disk	West Europe	
Monitoring		Virtual machine	West Europe	
💡 Insights (preview)		Disk	West Europe	
💷 Alerts		Virtual machine	West Europe	
Metrics	=	Disk	West Europe	
Diagnostic settings		Network interface	West Europe	



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

(e) KeyVault-RG Resource group				×
P Search (Ctrl+/)	« 🛛 + Add 📰 Edit columns 📋 Delete resource group 🖒 Refresh 🞍 Export to CSV 😚 Open q	uery 🖉 Assign tags → Move ∨ 🏥 I	Delete 🕹 Export template 💙 Feedbad	ck
() Overview	^ ← Essentials			
Activity log	Subscription (change) : DevSubscription	Deployments : No deployments		
Access control (IAM)	Subscription ID : COMPANY COMPANY COMPANY COMPANY			
🗳 Tags	Tags (change) : Click here to add tags			
Settings	Filter by name Type == (all) X Location == (all) X ($^{+}_{\overline{Y}}$ Add filter			
🗳 Quickstart	Showing 1 to 1 of 1 records.		No grouping \checkmark List vie	ew ~
📥 Deployments	□ Name ↑↓	Туре ↑↓	Location 1	
Policies	🗌 😲 clusteropenshift-znkks	Key vault	West Europe	
📅 Properties				

Then, to connect to the OpenShift Web Console, you will need to go to a URL in the form of: <a href="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".

Log in with	Red Hat
kube:admin htpasswdProvider	OpenShift Container Platform



Log in to your account Useranse * willarmi Passord * Log in

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

You will then be connected to the OpenShift Web Console.

Red Hat OpenShift Container Platform		🖽 4° O 🧿 williamn	m 🕶
🌣 Administrator 🗸 🗸	Overview		
Home Y	Cluster		
Projects Search	Details View settings	Status View alerts Activity View events	
Explore Events	Cluster API Address https://api.clusteropenshift.thesolfactory.net.6443	Cluster Control Plane Operators Ongoing activities.	
Operators >	Cluster ID 0b292fe4-41c2-4593-8ed6-bf5663ffa9f5 OpenShift Cluster Manager IZ	▲ Sep 22, 12:34 am Airts are not configured to be sent to a notification system, meaning that you may not be notified in a timely fashion when important failures occur. Check the Open/Shift documentation There are no recent events.	
Networking >	Provider Azure OpenShift Version	to learn how to configure notifications with Alertmanager.	
Storage >	4.5.9 Update Channel stable-4.5	Cluster Utilization 1Hour Percentra 1400 1645 1200 1245	
Monitoring >	Cluster Inventory	CPU 406 6 4 LS4 available of 15 2 4	
Compute > User Management >	6 Nodes	Memory 18:01 G/B 20 G/B 52/7 G/B available of 70:08 G/B 10 G/B	
Administration >	231 Pods 1 Storage Class	Filesystem 271 5 GB 400 GB 5/9 TB available of 90 FB 100 GB	
	1PVC	Network Transfer 2.57 MBps in 375 MBps out 5 MBps	