

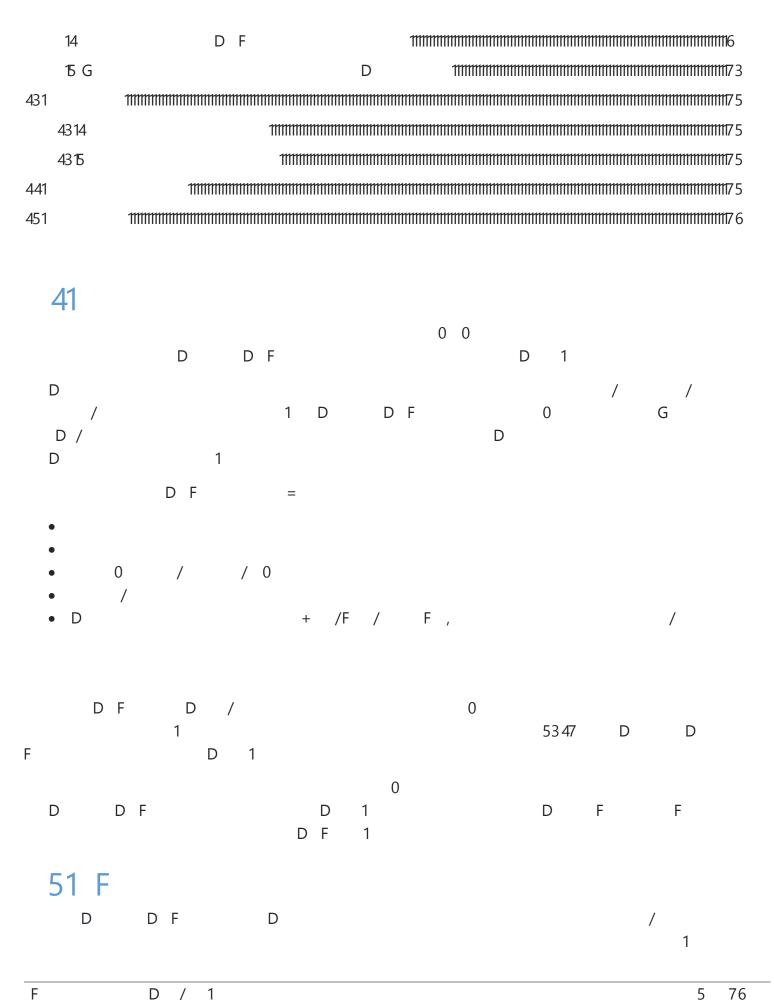
D D F

D

G

Contents

	D	D) F					D	1111111111	mmmmmm	11111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	mm14
41			1111111111	111111111111	11111111	11111111111	111111111	111111111111111111111111111111111111111	1111111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	111111115
51	F			111	11111111	1111111111	111111111	111111111111111111111111111111111111111	1111111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	111111115
61	D															
71																
81	G			1111	mmm	11111111111	111111111	111111111111111111111111111111111111111	1111111111111111	111111111111111111111111111111111111111	1111111111111	mmmm	111111111111	111111111111	111111111111111111111111111111111111111	111111117
	814	F		D		G	[)	1111111	mmmmm	11111111111111	mmmm	111111111111	111111111111	111111111111111111111111111111111111111	111111117
	815 F			D			111111	111111111111111111111111111111111111111	1111111111111111	111111111111111111111111111111111111111	1111111111111	mmmm	111111111111	111111111111	111111111111111111111111111111111111111	111111111
	816 D			F				D	G	1111	1111111111111	mmmm	111111111111	111111111111	111111111111111111111111111111111111111	111111143
	817					G		11111111	111111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	11111111111111111	111111145
	818							1111111111111	1111111111111111	111111111111111111111111111111111111111	1111111111111	mmmm	111111111111	111111111111	111111111111111111111111111111111111111	111111149
91	G			11111	mmm	11111111111	111111111	111111111111111111111111111111111111111	1111111111111111	111111111111111111111111111111111111111	1111111111111	mmmm	111111111111	111111111111	111111111111111111111111111111111111111	11111114
: 1	C	9		111111	mmm	mmm	111111111	111111111111111	111111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	11111111111111111	11111114
	: 14		G			I) F		1	111111111111111111111111111111111111111	111111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	11111114
	: 15		D		F					1111111111	11111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	11111153
	: 16 D						D)	1111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	111111154
	: 17			G				1111111111	11111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	11111158
	: 18			G				11111111	111111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	11111111111111111	11111159
	: 19			D		D	F			11111111111	11111111111111	mmmm	1111111111111	111111111111	11111111111111111	11111115
	: 1										111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	111111163
1	F	[)			11	111111111	1111111111111111	11111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	111111111111111111111111111111111111111	11111167
	14 F		D				1111	111111111111111	111111111111111	111111111111111111111111111111111111111	111111111111111	mmmm	111111111111	111111111111	111111111111111111111111111111111111111	11111167
1F			111111111	111111111111	mmm	11111111111	111111111	11111111111111111	111111111111111	111111111111111111111111111111111111111	11111111111111	mmmm	1111111111111	111111111111	1111111111111111	11111116

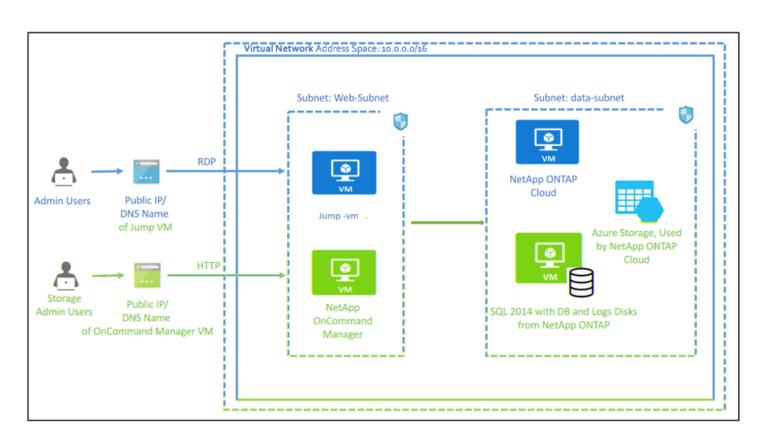


61 D

F

This template will deploy:

- Six storage accounts
- One Virtual Network with two subnets
- 2 Public IP's, one for OnCommand Manager and one for the Jump VM
- One OnCommand Cloud Manager (BYOL) (for ONTAP Cloud)
- One Windows Server 2012 R2 VM.
- One SQL Server 2014 SP2 Enterprise on Windows Server 2012 R2 VM.
- One NetApp ONTAP Cloud VM



 /
1 G 1

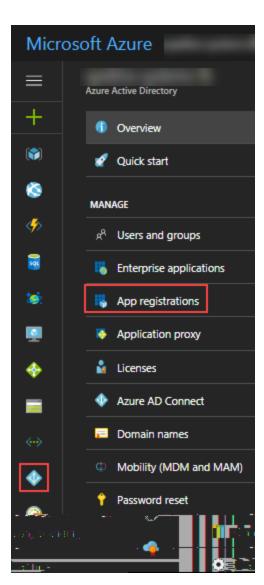
D D 1

G 1

81 G

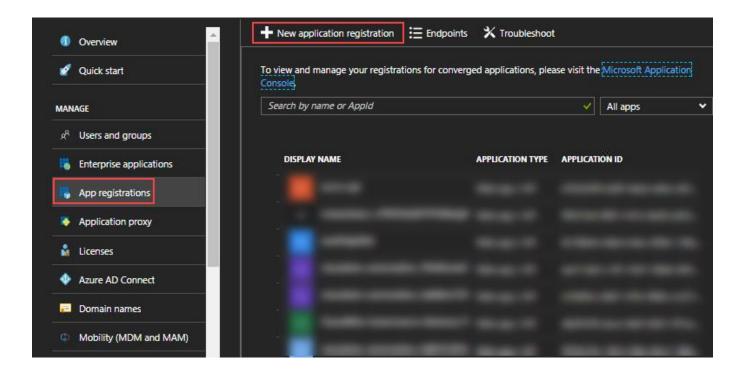
5.1 Creating an Active Directory Application

41 D / Active Directory App registrations1



51 F + New application registration.

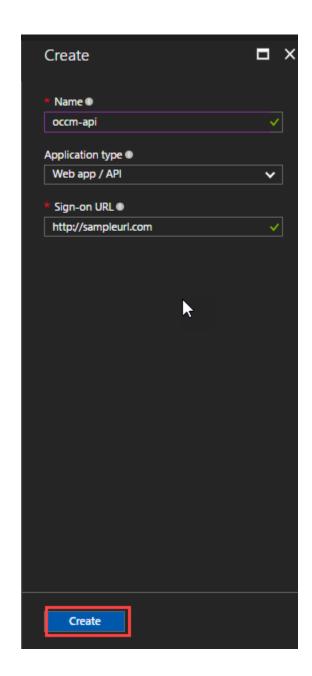
F D / 1 7 76



= cccm-api
D = Web app/ API
0 = http://sampleurl.com

71 F Create.

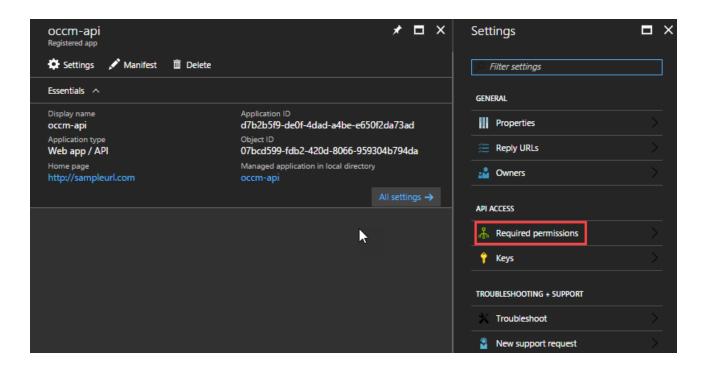
F D / 1



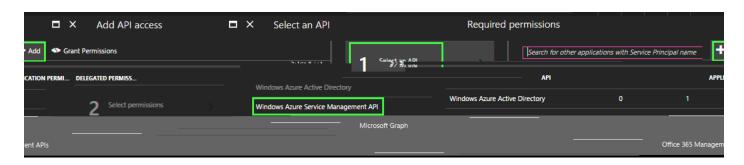
81 1F 1D api1F Required permissions.

Application ID occm-api / occm-

F D / 1 9 76

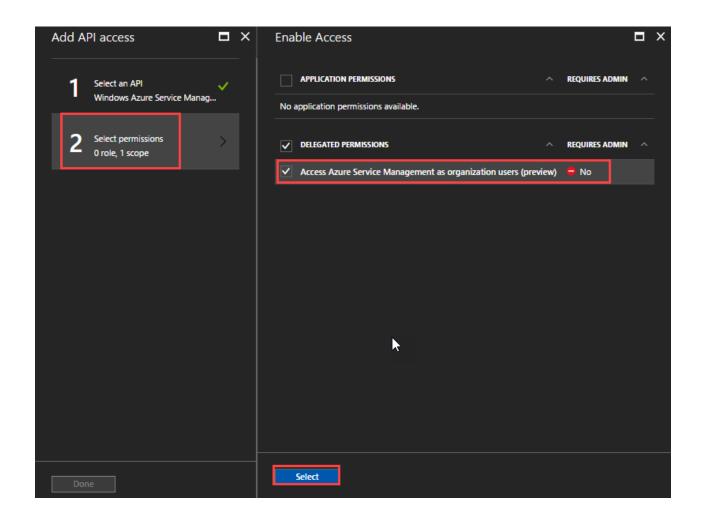


91 F +Add 1F Select an API1 Windows Azure
Service Management API1



: 1 F Select permissions Access Azure Service Management as organization users (preview). F Select.

F D / 1 : 76



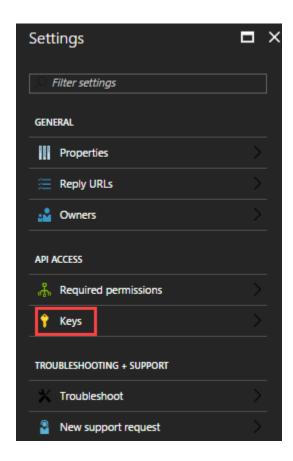
5.2 Creating an Application Key.

41 F **Keys Settings**

1

F D / 1

76



Save. Save.



61

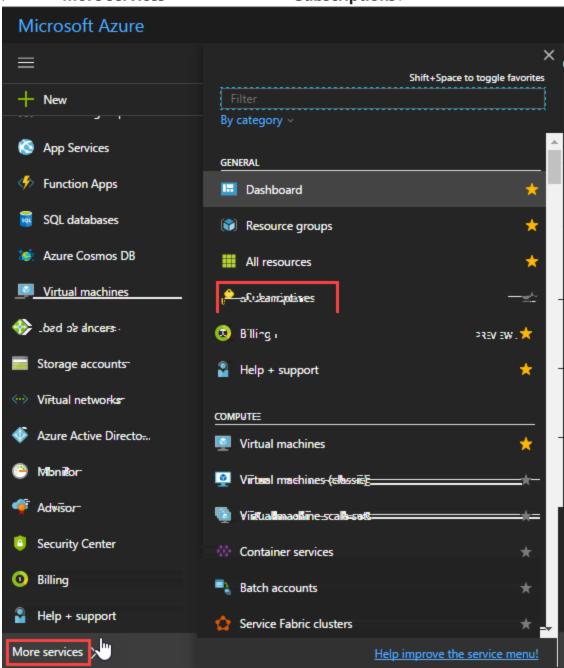
1 F 1



F D / 1

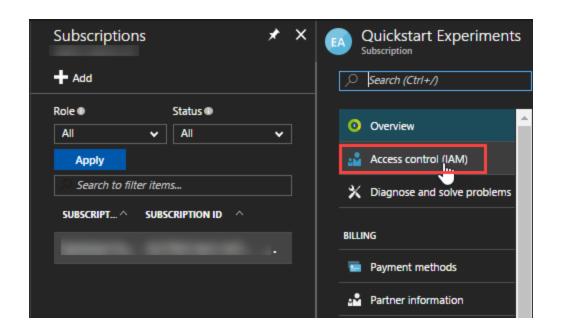
5.3 Assigning the Cloud Manager role to AD application

41 F More services Subscriptions1

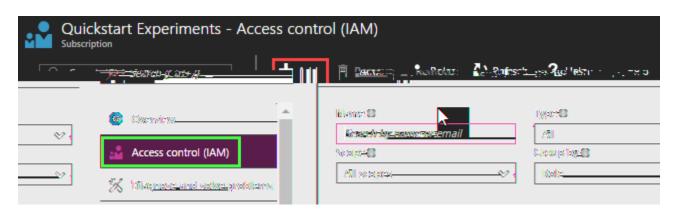


51 F Subscription Access Control+D ,

F D / 1 43 76

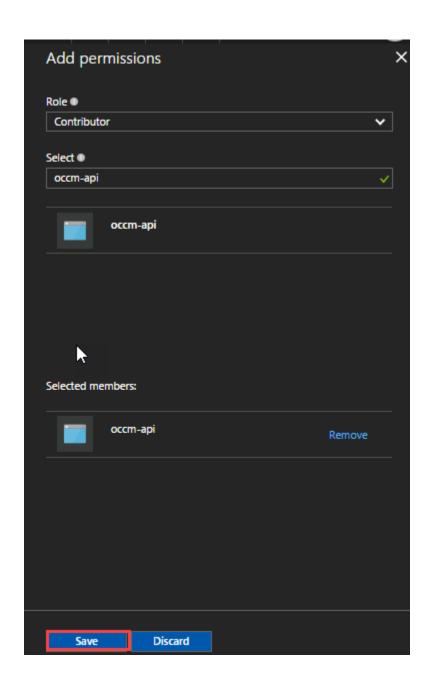


61 D Access Control+D , 0A Add + ,

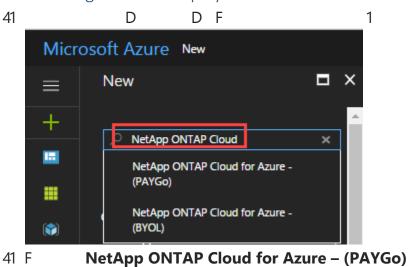


71 D Add, = Contributor = occm-api
81 F Save.

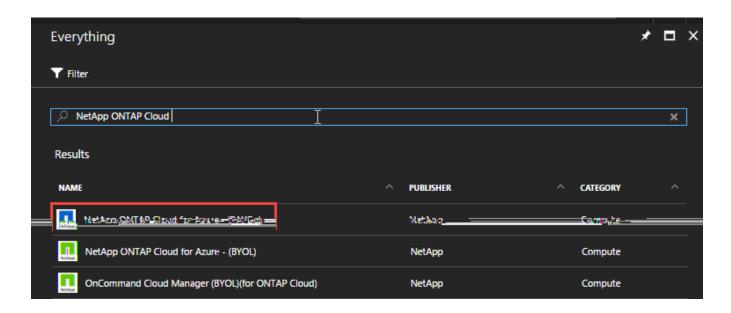
F D / 1 44 76



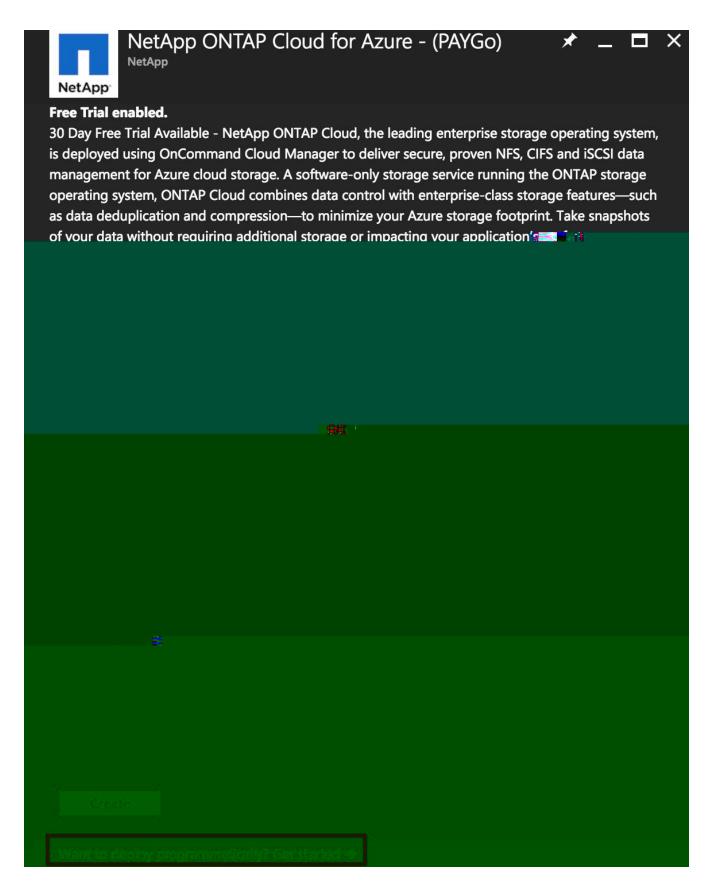
5.4 Enable Programmatic Deployment



F D / 1 45 76



51 F Want to deploy programmatically? Get Started



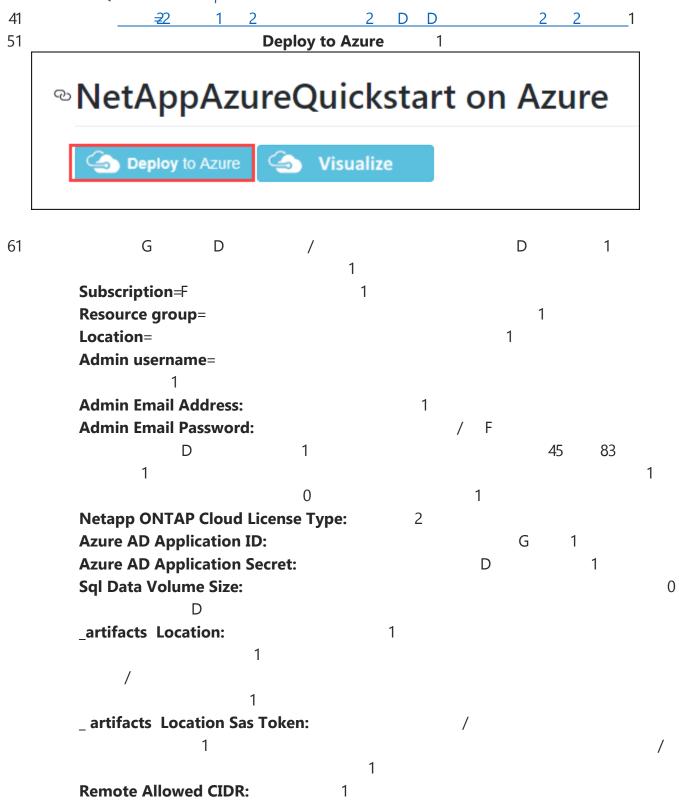
G Enable save.

Configure Programmatic Deployment Offer details NetApp ONTAP Cloud for Azure - (PAYGo) by NetApp Terms of use | privacy policy Pricing does not include Azure infrastructure costs (e.g., virtual machine compute time or storage) and is based on the pricing tier you select at the time of deployment. The pricing above applies only to Azure subscriptions purchased from Microsoft. For Azure subscriptions purchased from a reseller, contact your reseller for pricing. Neither subscription credits nor monetary commitment funds may be used to purchase non-Microsoft offerings. These purchases are billed separately. If any Microsoft products are included in the above offering(s) (e.g., Windows Server or SQL Server), such products are licensed by Microsoft and not by any third party. Terms of use By enabling programmatic purchases for the subscriptions selected below, I (a) agree to the legal terms and privacy statement(s) associated with each offering above, (b) for Azure subscriptions purchased from Microsoft, authorize Microsoft to charge or bill my current payment method for the fees associated with my use of the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s), and (c) agree that Microsoft may share my contact information, and transaction details associated with my purchase of the above offering(s), with any third-party vendors, if listed above. Microsoft does not provide rights for third-party products or services. See the Azure Marketplac Choose the subscriptions Soloct the Azura su

F D / 1 48 76

F

71 D

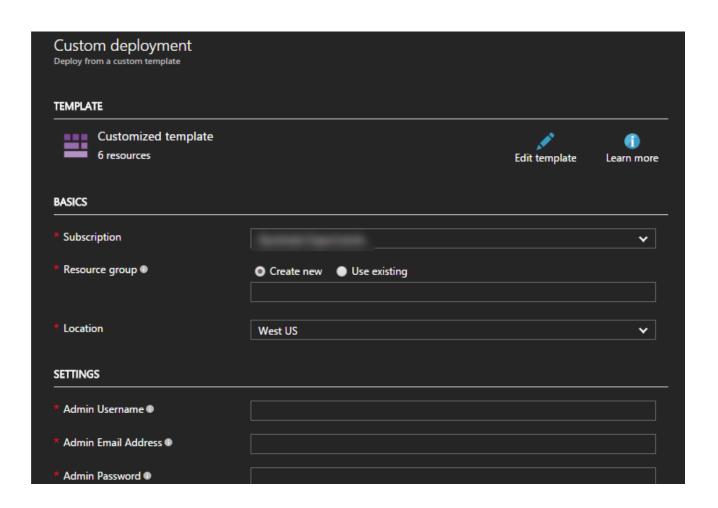


F D / 1 49 76

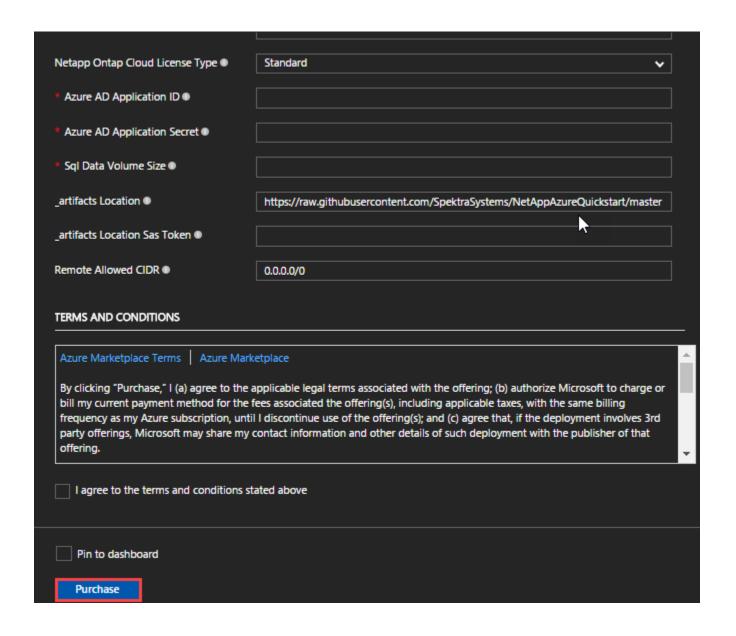
Purchase.

I agree to the terms and conditions stated above

1



F D / 1 4: 76



91 G

4 1

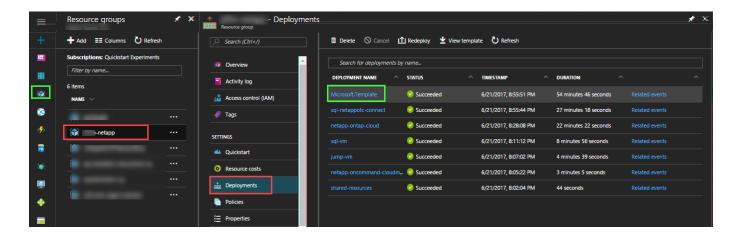
: 1 G

7.1 Get the DNS name of ONTAP Cloud Manager

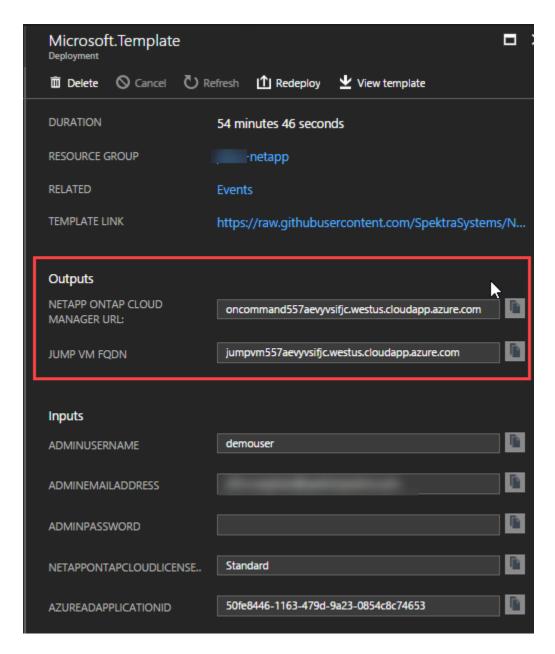
41

51 Settings / Deployments Microsoft.Template

F D / 1 4 76

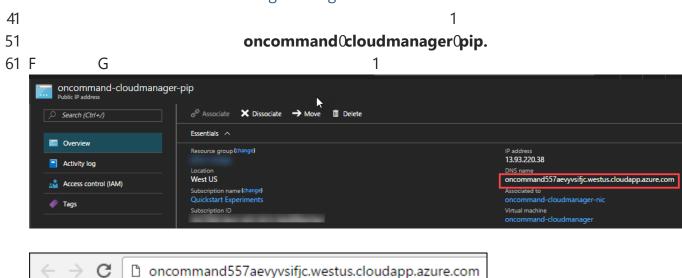


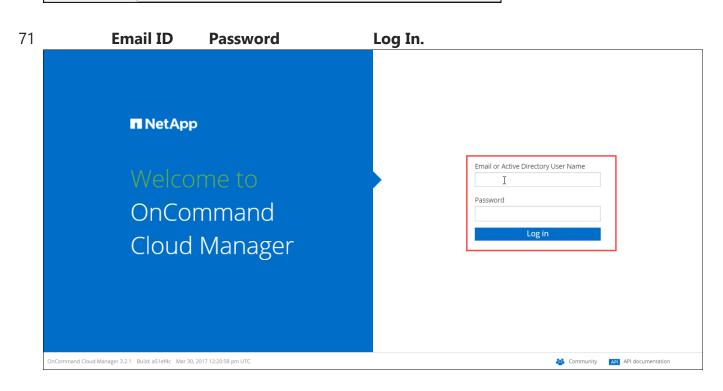
Microsoft.Template,



F D / 1 4 76

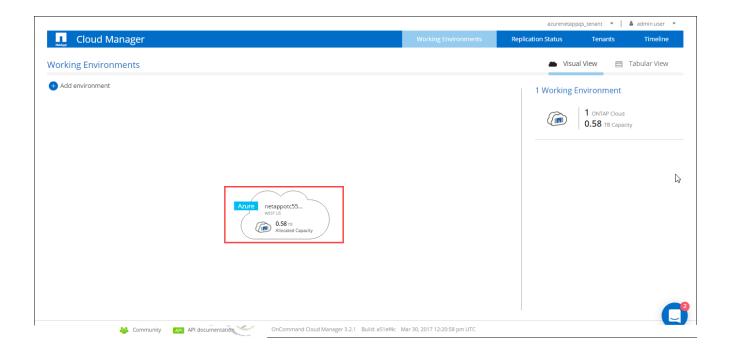
7.2 How to Access OnCommand Manager using GUI





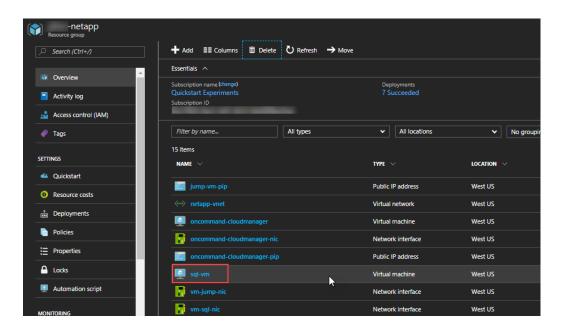
81 D / 1

F D / 1 53 76



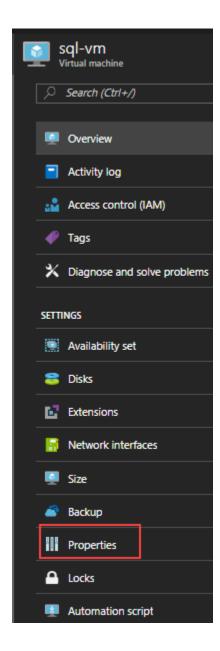
7.3 Access SQL VM and Verify NetApp Volumes

41 1F **sql-vm.**



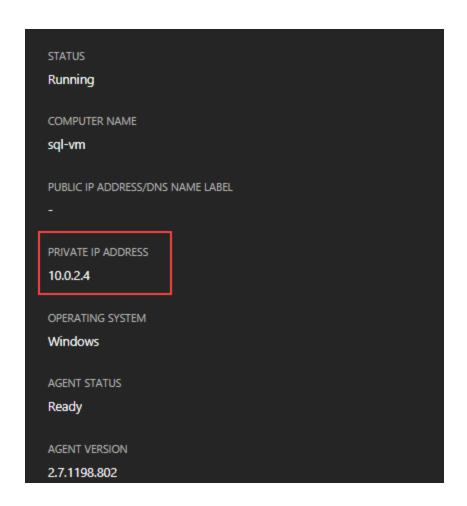
51 / Settings / Properties.

F D / 1 54 76

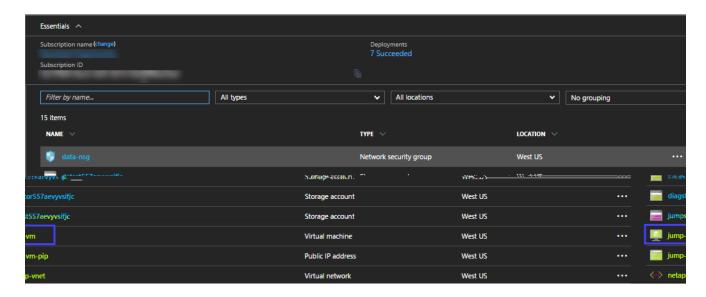


Properties / Private IP address.

F D / 1 55 76



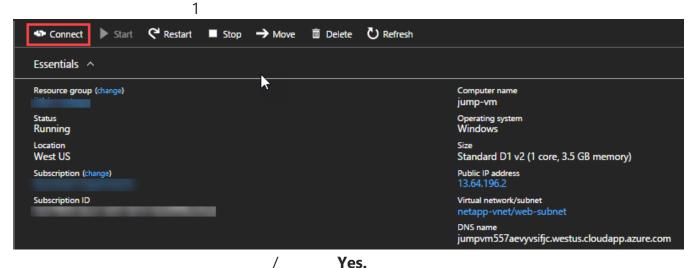
71 1F **jump-vm.**



81 F **Connect** 1

F D / 1 56 76

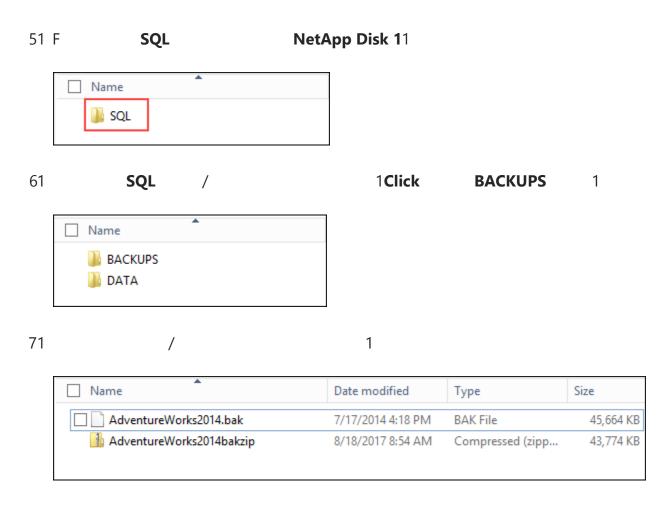






0 1 0 : 1 **Remote Desktop** Connection. 1 **Private ip address** sql-vm Step 31 1 G F 1 431 0 This PC. 1

F D / 1



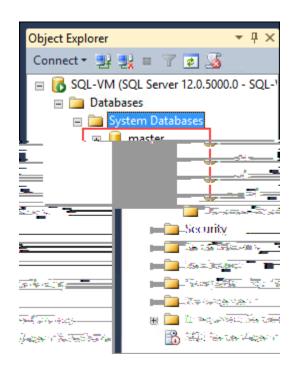
81 NetApp Disk 21

7.5 Viewing the Database architecture.

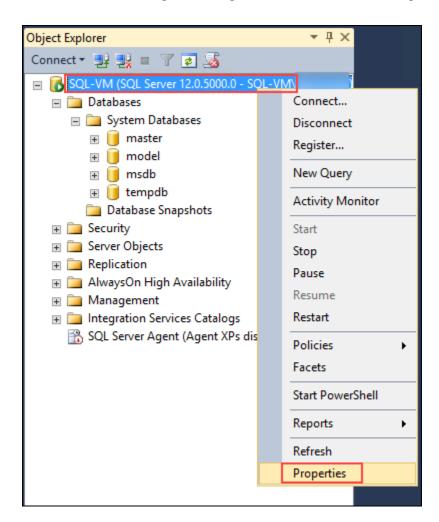
41 **sql-vm jump-vm.**

51 **SQL Server 2014 Management Studio.**

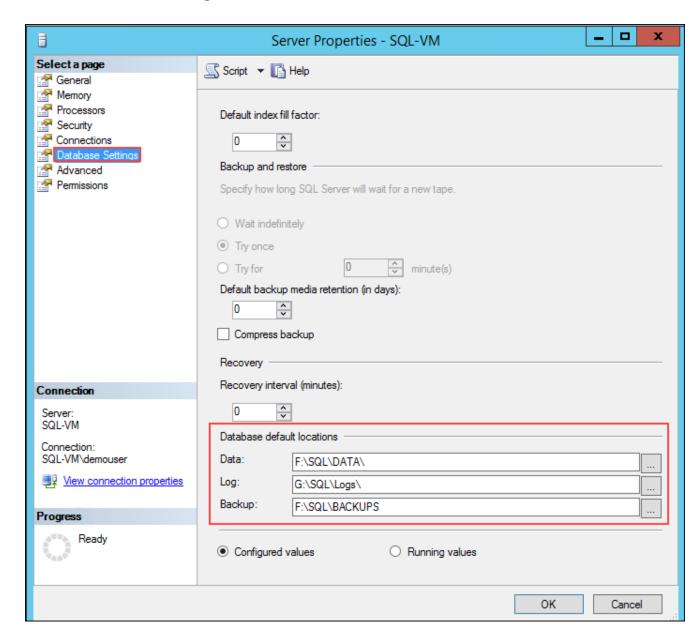
61 F Databases System Databases.



71 G / SQL Server 2014 Management Studio SQL-VM(SQL Server 12.0.5000.0-SQL-VM\username). F Properties.

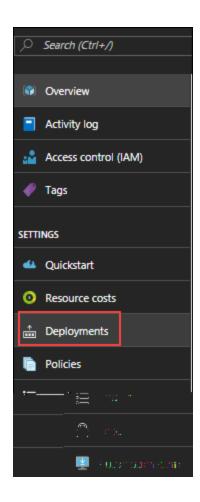


F D / 1 5: 76



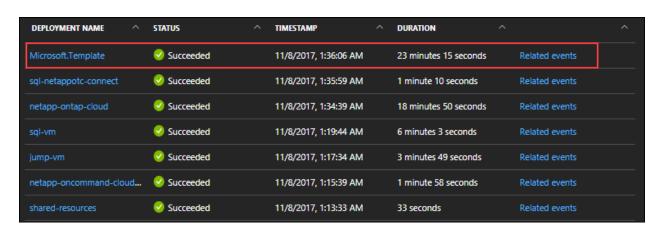
7.6 Retrieving NetApp ONTAP Cloud SVM Password.

91 1 : 1 / **/click Deployments.**



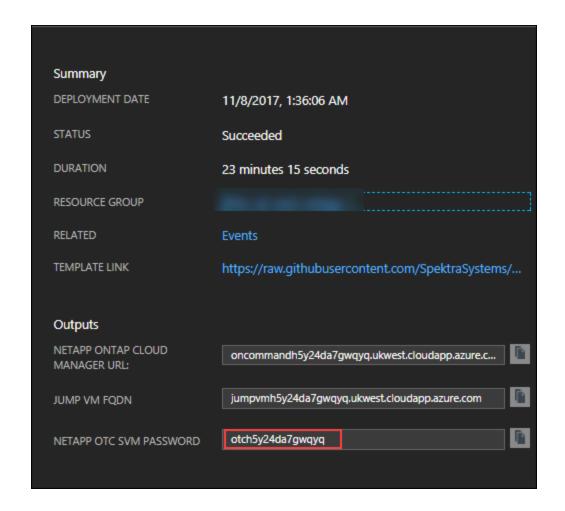
1 G / 1**Click**

${\bf Microsoft. Template 1}$



1 NETAPP OTC SVM PASSWORD 1

F D / 1 5 76



7.7 Restoring databases using the SQL Management Studio

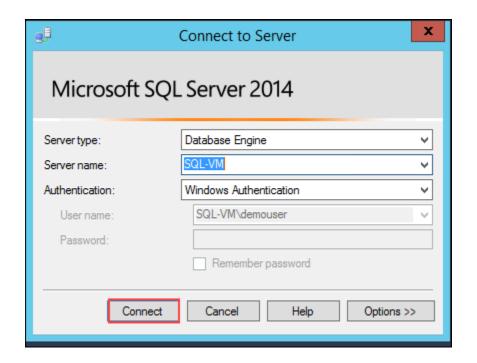
41 sql-vm jump-vm1

51 sql-vm SQL Server 2014 Management Studio1 SQL Server 2014 Management Studio.

F D / 1 63 76

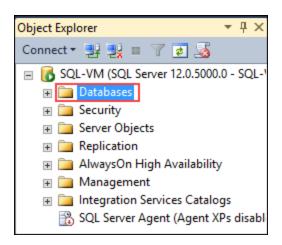


61 D 1F **Connect.**

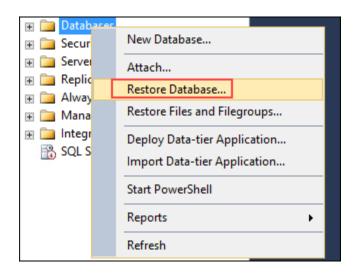


71 SQL Server 2014 Management Studio, Databases

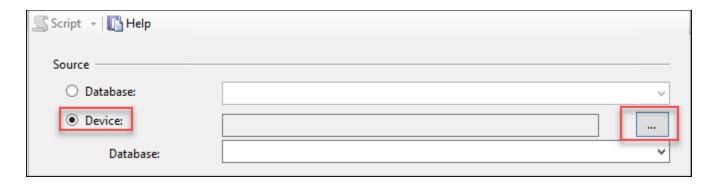
F D / 1 64 76



81 F **Restore Database**1

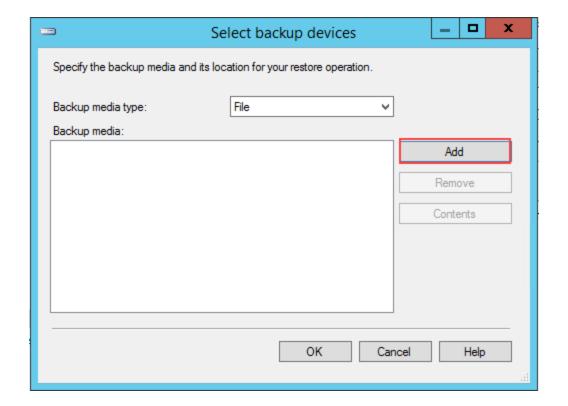


91 **Device**, ...' 1

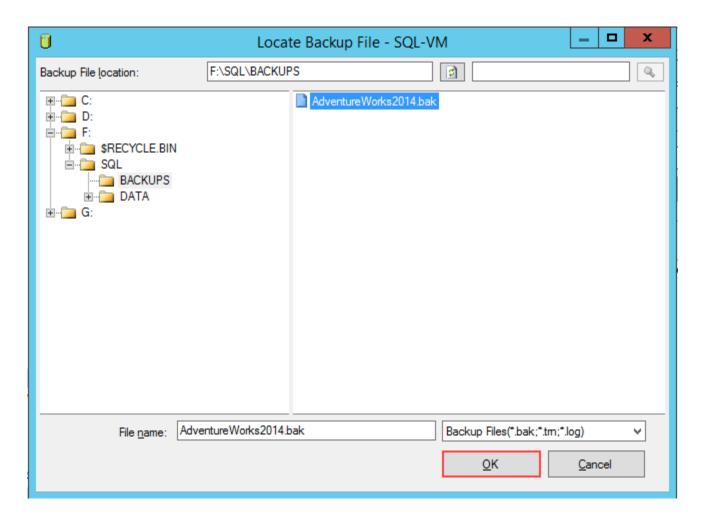


: 1 /click Add1

F D / 1 65 76

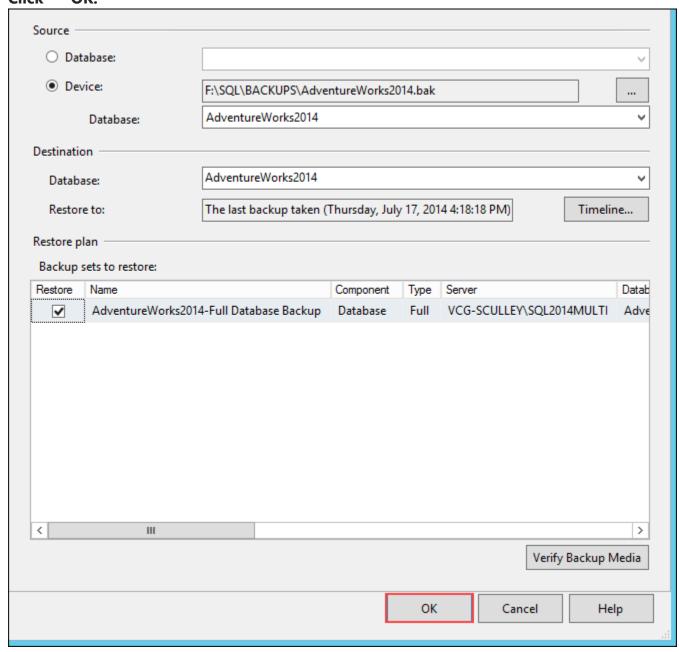


1 AdventureWorks2014.bak OK.



F D / 1 66 76

1 Click OK.



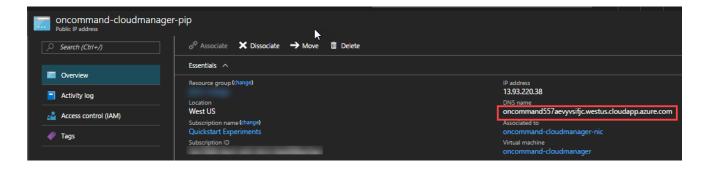
431 1

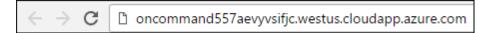
1 F D

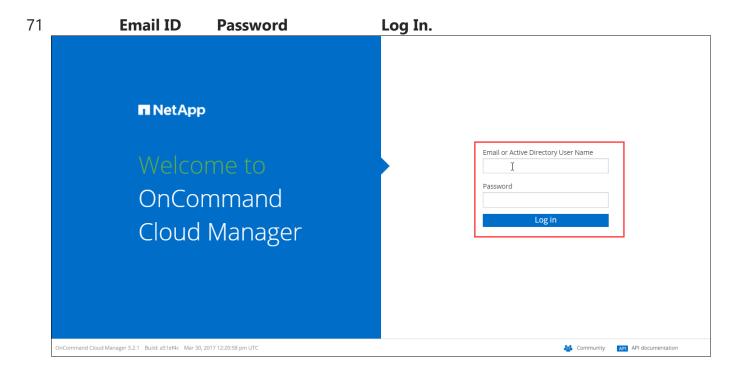
8.1 Creating Additional Volumes

41 1 1 51 oncommand © cloud manager © pip. 61 F G 1

F D / 1 67 76

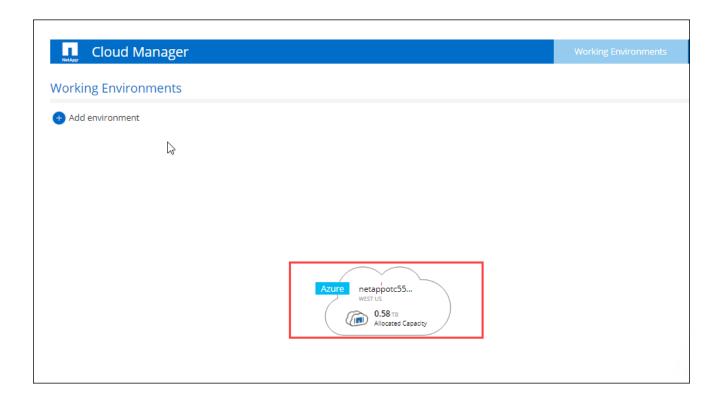




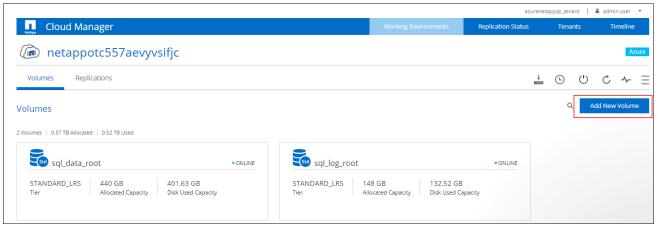


F / environment

F D / 1 68 76



91 F Add New Volume.



: 1 = Volume Name= 1

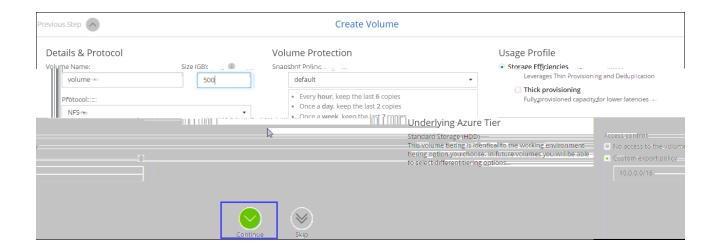
Size= 1

Protocol= 2F Access control: F Snapshot Policy:

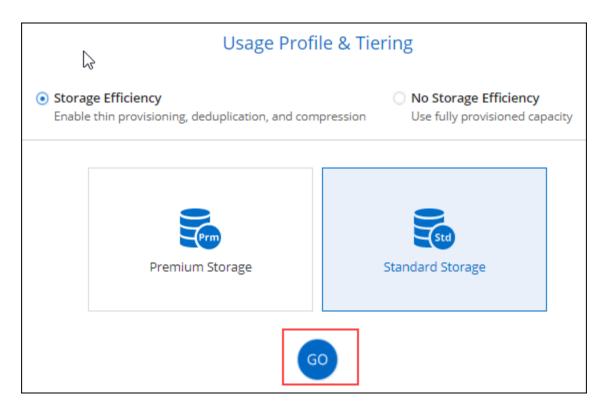
Usage Profile: 1

F Continue.

F D / 1 69 76

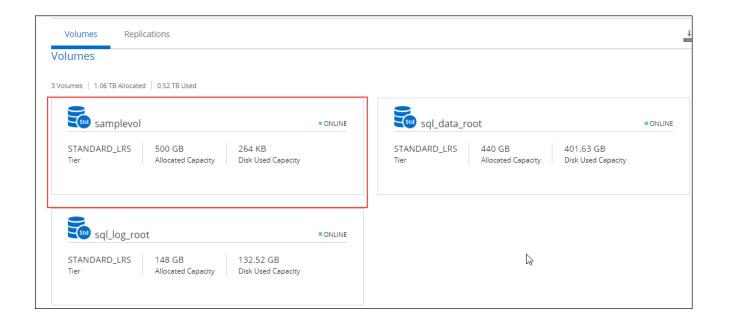


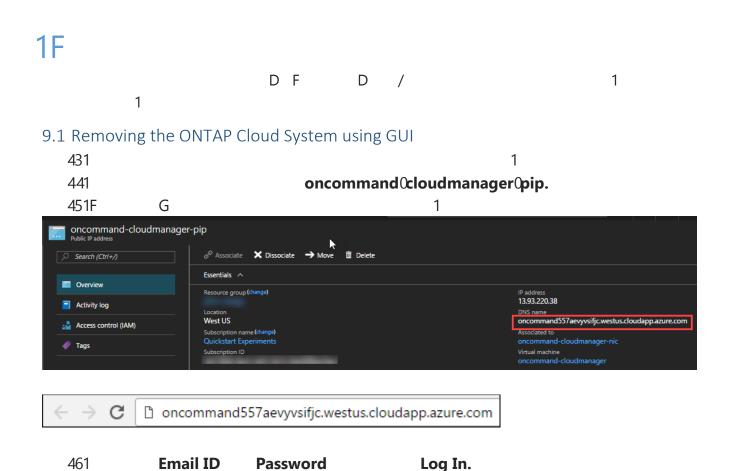
GO.



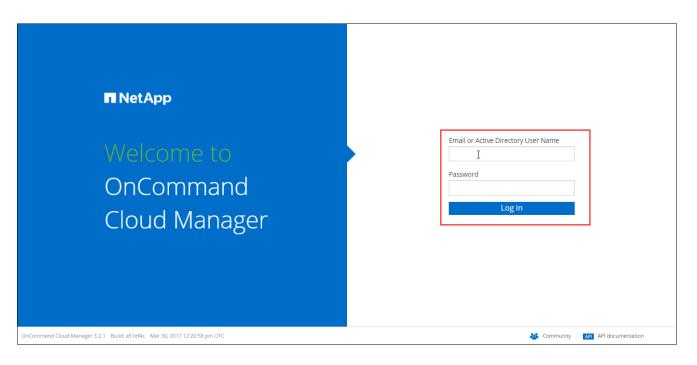
1

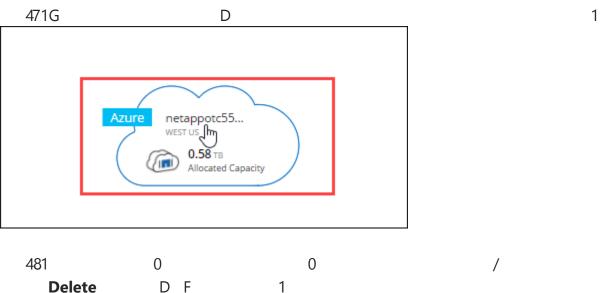
F D / 1 6: 76





F D / 1 6 76

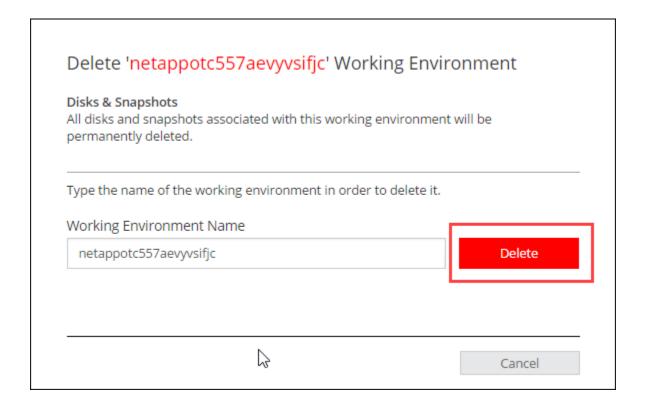






491 **Delete.** G 1

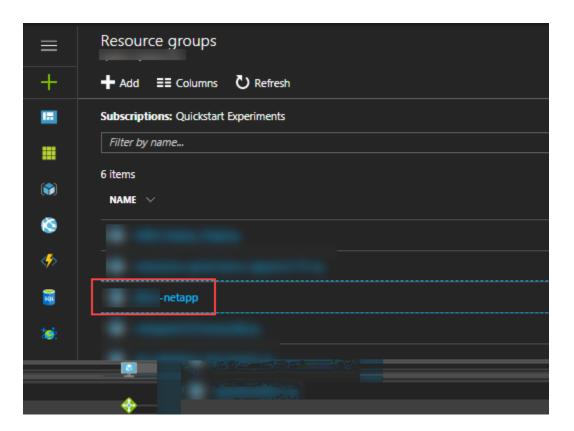
F D / 1 6 76



9.2 Deleting the Resource Groups from the Azure Portal

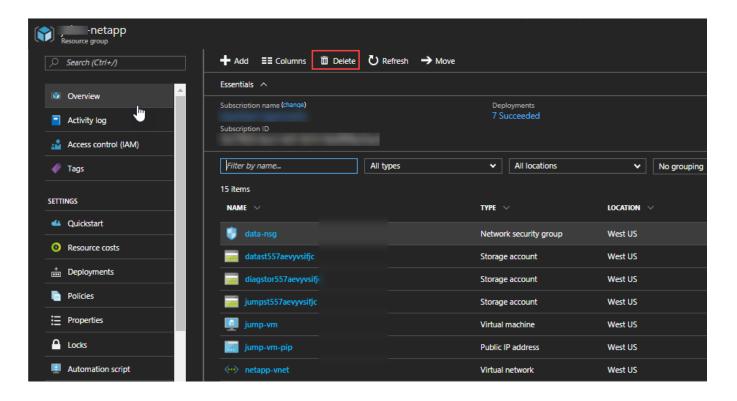
41 Resource groups/

1

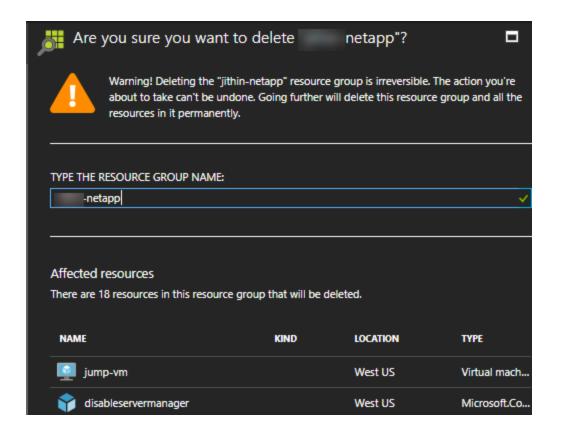


51 F **Delete** 1

F D / 1 73 76



Delete.



F D / 1 74 76

10.1 Network Security Groups

Network Security Groups

1D 1

=**data-nsg web-nsg.**0 1

 Direction
 Source
 Destination
 Service
 Action

 388823
 438148257
 + F 2 3, D
 D

 388823
 438148257
 G + F 266, D
 D

1 ___ 1

10.2 Operating System Security

D F F 1D 1

1

441

/ D

Q:

A: / 55 **web**0

nsg.

Q: 0 / 0 0 1

A: 0 / 1 G 0 0 0 1 0

F = D

451 c 1

D / 1

F

/ ____0___0