## Deploying Actifio Sky in the Microsoft Azure Cloud



actifio

Actifio VDP 10.0

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### Preface

The information presented in this guide is intended for users who are configuring Actifio Sky for the Azure Cloud. If you are installing Actifio Sky for the Azure Cloud in a production environment, before proceeding, consult with your Actifio representative to properly size your Actifio Sky appliance.

When you have finished configuring Actifio Sky for the Azure Cloud, consult *Getting Started with Actifio Copy Data Management.* It introduces basic concepts, processes and procedures for an Actifio appliance.

#### The ActifioNOW Customer Portal

Actifio customers can access to the entire Actifio documentation set as well as the portal's knowledge base.

To log into the ActifioNOW Customer Portal:

- 1. Go to: https://now.actifio.com
- 2. When prompted, enter your user name and password you were provided when you purchased your Actifio appliance.

#### The Doctifio Public Documentation Library

The Doctifio Public Documentation Library provides a limited number of Actifio documents and is open to the public.

To access the Doctifio Public Documentation Library, in a web browser enter the address: **docs.actifio.com** and the library is displayed.

## 1 Introduction

Actifio Sky allows an enterprise to leverage Microsoft Azure as a flexible hybrid cloud infrastructure to build higher quality applications faster and improve business resiliency and availability.

An Actifio Sky appliance for Microsoft Azure is a virtual server designed to capture and manage data. An Actifio Sky appliance can be installed in Microsoft Azure. Captured data can be replicated between Actifio appliances in your data center, between appliances in Azure, and between appliances in your data center, between Actifio appliance provides a disaster recovery solution.

Data in Microsoft Azure is instantly accessible and can be re-used for the following key use cases:

- Accelerates DevOps, CI/CD, and application dev/test processes: Provision virtual copies of databases instantly, in self-service manner with secure, role-based access controls. This enables developers to perform development, test, QA and integrate with continuous integration and continuous deployment tools.
- **Leverages instant access to data:** Actifio appliances allows user to failover to their Microsoft Azure environment delivering business resilience for on-premises enterprise applications.
- On-Demand analytics: The ability to capture, manage and re-use Microsoft SQL Server databases and other databases and file systems enables data warehousing and analytics applications.
- Secure migration to the Microsoft Azure Cloud: Securely migrating applications to Microsoft Azure. Using an Actifio appliance's instant access, users can create a sandbox environment in Microsoft Azure, conduct security, performance and scalability validation, before turning on the application in Microsoft Azure.
- **Global, standardized, Hybrid Cloud Data Management:** For Azure-resident applications, Actifio appliances can manage their data life cycle and deliver the same benefits as for on-premises applications: accelerate high quality application development, enhance business resilience, meet compliance requirements, and drive down infrastructure costs.

Actifio Sky for Microsoft Azure delivers the following benefits:

**Build Higher Quality Apps Faster:** Actifio appliance's database virtualization in Microsoft Azure enables Dev, QA and UAT teams to self-service provision on-demand virtual copies of production databases with secure data masking. This helps catch defects earlier in QA cycles, enabling the release of higher quality products, faster.

**Improve Business Resiliency**: By replicating on-premises and cloud-based data to any Microsoft Azure location for instant recovery of mission critical applications, Actifio appliances eliminate the fear of downtime for critical applications, thereby eliminating potential losses in revenue, reputation, and employee productivity.

**Outsource Infrastructure:** By delivering a modern data management platform in hybrid cloud environments, Actifio appliances help accelerate business transformation by making it easy for enterprises to leverage cloud technologies, allowing them to outsource costly infrastructure.

**Data Warehouse, ETL, Analytics:** Actifio appliances make it easy to provision virtual copies of production data in Microsoft Azure, while feeding data into on-demand data warehousing, ETL, or analytics solutions. This accelerates the speed at which business analytics can be achieved in the cloud, while eliminating the need to invest more in software tools and on premise infrastructure.

## 2 Obtaining the Actifio Sky VM Image

Actifio provides an Actifio Sky VM for the Azure Cloud. To obtain an Actifio Sky for Azure Cloud image from the Microsoft Cloud Marketplace, from your Azure account:



#### **Azure Dashboard**

1. Click Virtual Machines in the left-hand menu and the Virtual Machines page is displayed:

Micr	osoft Azure 🗸 Virtual machines		<u>ک</u> ل ک	3 😳 🧿	ashok.ramu@actifio.c Ashokramuactifio (DEFAU.
≡	Virtual machines				* _
+	+ Add ≡≡ Columns ℃ Refresh				
٢	Subscriptions: Pay-As-You-Go				
	NAME	STATUS	RESOURCE GROUP	LOCATION	SUBSCRI
٩	CentOs-Test	Running	actifioqa	East US	Pay-As-
8	👰 mktplacetest	Running	actifioqa	East US	Pay-As-
<u>.</u>	oqatest	Running	ActifioSky1205	East US	Pay-As-

#### **VMs Available**

2. From the top menu, click Add and the Azure market Place is displayed.

- 3. In the Search space provided, enter **Actifio**.
- 4. Click Search and the Actifio Sky VM image is displayed:

Products 🚿 Actifio Sky	
actifio	Actifio Sky <sub>Actifio</sub>
	Overview Plans + Pricing Reviews
	The cost of running this product is a combination of the selected software plan charges plus the Azure infrastructure costs for the virtual machines on which you will be running this software. Your Azure infrastructure price might vary if you have enterprise agreements or other discounts.
GET IT NOW	To view pricing in a different currency, change the billing country/region. Costs might vary by deployment region.
Pricing information Bring your own license + Azure infrastructure costs	Select a software plan
Categories Compute Storage	Actifio Sky Virtual Appliance BYOL Data Virtualization for Hybrid Cloud - Rapid Data Access for DevOps, Instant Recovery & Cloud Backup
Databases Developer tools	
Support Support	Pricing by virtual machine instance Download table as CSV
Legal License Agreement	Show:      Publisher recommendations     O All virtual machine instances
Privacy Policy	Region       The publisher recommends the following 4 virtual machine instances for use with this software plan.
	Virtual Machine Configuration Cost per hour Total cost

#### Select the Actifio Sky VM Image

5. Click **Get it Now** and follow the Microsoft Azure instructions to add the Actifio image to your account.

Next step: Configure the Actifio Sky VM. See Configuring the Actifio Sky VM on page 5 for details.

## 3 Configuring the Actifio Sky VM

**Note:** Before you begin setting up your Actifio VM, you must obtain sizing information from your Actifio representative.

To configure a new Actifio Sky VM, from your Azure account:



#### **Azure Dashboard**

1. Click Virtual Machines in the left-hand menu and the Virtual Machines page is displayed:

Micro	osoft Azure 🗸 Virtual machines			ク 日 総	0	
≡	Virtual machines					* _ & ×
+	+ Add ≣≣ Columns ひ Refresh					
	Subscriptions: Pay-As-You-Go					
	Filter items					
	NAME	STATUS	RESOURCE GROUP	LOCATION	SUBSCRIPTION	
٩	actifio	Stopped	ActifioSky1205	East US	Pay-As-You-Go	
۲	CentOs-Test	Running	actifioqa	East US	Pay-As-You-Go	
<b>Q</b>	👰 mktplacetest	Running	actifioqa	East US	Pay-As-You-Go	
	🧕 qatest	Running	ActifioSky1205	East US	Pay-As-You-Go	
<b>2</b>						

Select the Actifio Sky VM to be Configured

- 2. The list of available VMs is displayed.
- 3. Click the Actifio image and the configuration wizard will start:

Note: If you have a lot of VMs available, you can use the filter to display the Actifio VM.

Micro	osoft Azure V « Compute > Actifio S	ky on Azure > Create virtual machine > Summary > Basics	
	Create virtual machine $\ \_$ $\square$ $\times$	Basics _ 🗖 ×	
+			
	<b>1</b> Basics	* Name	
	Configure basic settings	ActifioVM V	
8	<b>1</b> Size	SSD V	
<u>_</u>	Choose virtual machine size	* User name	
	Cattinge	actifiouser	
	3 Configure optional features	SSH public key Password	
 &	Summany	* Password	
	Red Hat Enterprise Linux 6.7	★ Confirm percurant	
		······	
<b>—</b>		Subscription	
		Pay-As-You-Go	
•		resource group      •     Oreate new      •     Use existing	
0		actifioqa 🗸	
2		Location	
•		Last US	

Step 1 - Basic Settings

- 4. For Step 1, There are no settings required by Actifio. However Azure requires that you:
  - o Enter a Name for the Actifio Sky VM.
  - o Select a VM disk type for the VM.
  - o Enter a **User Name** in the space provided. The user name is required by Microsoft Azure but is not used by the Actifio Sky appliance.
  - Select an Authentication Type. The Authentication Type is required by Microsoft Azure but is not used by the Actifio appliance. If you select SSH Public Key, then in the space provided enter a public key generated by Linux ssh-keygen or Windows PuttyGen. If you select Password, in the fields displayed, enter a password and then re-enter it to confirm.
  - o Select a Subscription type.
  - o Under **Resource group**, select either **Create New** and enter a name for a new resource Group or select **Use Existing** to select an existing Resource Group.
  - o From the drop-down menu, select the **Location** for this Actifio VM.

#### 5. Click **OK** and **Step 2 Size** page is displayed:

Micro	osoft Azure 🗸 « Compute > Actifio Sky	on Azure > Create virtual machine > Choose a size	
≡	Create virtual machine $\ \ \_$ $\ \square$ $\  imes$	Choose a size _	
+		שוטאסג וויג מאפוופשור אגבס פווע עוידו ורפועורס	
	1 Basics 🗸	Prices presented below are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Recommended sizes are determined by the publisher of the selected image based on hardware and software requirements.	
8	C Size	★ Recommended   View all	
<b>_</b>	Choose virtual machine size	DS3_V2 Standard DS4_V2 Standard DS5_V2 Standard	
		4 Cores 8 Cores 16 Cores	
	3 Settings > Configure optional features	14 GB 28 GB 56 GB	
<b>Q</b>		Data disks Data disks Data disks	
	Summary	Ax IOPS     Ax IOPS     Ax IOPS     Ax IOPS     Ax IOPS     Ax IOPS	
	Red Hat Enterprise Linux 6.7	E 28 GB DO GB Local SSD Local SSD	
		Icoad balancing         Icoad balancing         Icoad balancing	
<b>~··&gt;</b>		📕 Premium disk support 📕 Premium disk support	
0		217.99 435.24 870.48 USD/MONTH (ESTIMATED) USD/MONTH (ESTIMATED) USD/MONTH (ESTIMATED)	
0			
0		Select	

Step 2 - Select Size

6. Select the VM size that corresponds to your Actifio Sky license.

	Actifio Sky License				
Size of VM in Azure					
	Dedup Policies Used	Dedup Policies Not Used			
D\$3_V2	Sky 5	Sky 60			
DS4_V2	Sky 10	Sky 120			
D\$5_V2	Sky 30	Sky 200			
D32s V3	Sky 128				

**Note:** The sizing definitions are subject to change by Microsoft.

7. Click **Select**, and **Step 3**, **Configure Optional Features** page is displayed:



#### Step 3 - Configure Optional Settings

- 8. Under Storage, select **YES** to use **managed disks**.
- 9. Make other selections in Step 3 as needed.
- 10. Click **OK** and the Step 4 Purchase page is displayed:
- 11. Click **Purchase** to purchase the configured Actifio VM.

Next step - Add disks to the Actifio VM. See Adding Disks to the Actifio Sky VM on page 9.

## **4** Adding Disks to the Actifio Sky VM

You must define disk space to accommodate the Actifio Sky VM's operating needs as well as to accommodate the data the Actifio Sky appliance will capture.

The amount of disk required is based on your Actifio Sky license and recommendations from your Actifio representative.

During the Actifio Sky appliance installation, each disk defined will be assigned to one of three Actifio storage pools:

- Primary Pool: Contains Actifio Sky system data. One 200 GB disk is required.
- **Snapshot Pool:** Contains the retained Snapshots (full copies). The actual size required for this disk will be calculated by your Actifio representative. It will define enough disk storage to accommodate the number of full snapshots of data you plan to retain. You can at a later date add additional disk storage to accommodate growth. A minimum of 10 GB is required.
- **Dedup Pool:** Contains the retained deduplicated data. The actual size required for this disk will be calculated by your Actifio representative. It will contain enough disk storage to accommodate the number of deduped copies of data you plan to retain. A minimum of 100 GB is required.

If your Actifio appliance will not use deduplication policies, then you must create a 100 GB disk for the Dedup Pool.

**Note:** If your Actifio Sky appliance will use dedup policies, the disks used for the Dedup Pool must be added as SSDs.

To add disks to an Actifio Sky appliance's pools:

1. Log in to your Microsoft Azure dashboard.



**Select Virtual Machines** 

- 2. From your Azure dashboard's left-hand menu, select **Virtual Machines** and a list of available VMs are displayed.
- 3. Select the Actifio Sky appliance VM to which you will add the disks.
- 4. From the list of VM options click **Disks** and the disks attached to the VM are displayed.
- 5. To add a disk to the VM, click the **Add Data Disk** tab and the options for attaching a new disk are displayed:

Microsoft Azure Virtual mac	hines > Azuretest - Disks > Attach unmanaged disk	Q	Q	>_ ॐ	$\odot$	?	asho ASHOR
	O Attach unmanaged disk			□ ×			
+ New	Name						
Dashboard	Azuretest-20171013-143017						
📦 Resource groups	Source type New (empty disk)			~			
All resources	<sup>™</sup> Account type ●			P	age Num	ber	
🕒 Recent	Standard (HDD)			*			
🔇 App Services	5ize (GiB) 0 1023						
Virtual machines (class	ESTIMATED REDEADNAN/SE &						
Virtual machines	IOPS limit 500						
SQL databases	Throughput limit (MB/s) 60						
Cloud services (classic)	* Storage container						
<ul> <li>Subscriptions</li> </ul>	2 Storana blab nama	Brows	ie				
	Azuretest-20171013-143017.vhd						
V Azure Active Directory							

#### Add Data Disk

- 6. Use a **Name** that clearly identifies in which pool the disk will reside. Doing so will make the Actifio Sky appliance installation easier to follow.
- 7. For **Type**, You can use either HDD or SSD for the Primary and Snapshot pools. If your Actifio Sky appliance will use dedup policies, then use SSD disks for the dedup pool.
- 8. Make other settings as needed.
- 9. Browse to a storage container by first selecting an account that owns the container.
- 10. Select an account and the available containers are displayed:

Microsoft Azure Azuretest	- Disks $ ightarrow$ Attach unmanaged disk $ ightarrow$ Storage acc	count	ts > Containers	Q	Û	>_	ŝ	$\odot$	?	ashok. Ashokr
≡	Storage accounts ×		Containers actifiotest							
+ New	+ Storage account 🕐 Refresh		+ Container 🕐 Refresh							
🔲 Dashboard			Search containers by prefix							
📦 Resource groups	NAME		NAME		LAST	NODIFIED			PUBLIC ACC	IESS L LE
All resources	actifiosa		actifioimages		5/31/2	2016, 10	:14:17 PI	м	Container	A
🕓 Recent	actifiosky12058748		actifiostorage		10/28,	/2016, 1	1:34:31	AM	Blob	A
🔇 App Services	actifiosky1205disks642		actifiovaulttest		5/18/2	2016, 10	:55:21 A	М	Private	A
Virtual machines (class	actifiotest		aruntest		8/30/2	2016, 1:	18:17 PM	•	Container	A
	afoodevtest381		automationtest1		3/10/2	2017, 6:2	25:08 AN	4	Private	A
Virtual machines	dfoodevtest7121		azureiovsky		6/22/2	2017, 2:5	i3:02 AN	4	Private	A
👼 SQL databases	qatestskyazurediag 181		azureupgradtest		9/18/2	2017, 11	:54:33 A	м	Private	A
Cloud services (classic)	qateststorageazure		beta		7/25/2	2017, 3#	12:39 PM	1	Container	A
<b>Ŷ</b> Subscriptions	tjtest		bootdiagnostics-automatio-3cf908bf-d2c3-4748-8c15-7fad7d9a9b	o78	8/30/2	2016, 10	:08:37 A	М	Private	A
Azure Active Directory	↓		boris		5/26/2	2016, 2:0	14:07 PM	1	Private	A
🕒 Monitor									<u>.</u>	
More services >										

#### **Available Containers**

- 11. Select a container as needed.
- 12. Click **Submit** and the disk is created.

Microsoft Azure Azuretest - Disks > Attach unmanaged disk	ר ⊅ ⊅ ≫ 😳 🧿	
$\equiv$ $\bigcirc$ Attach unmanaged disk	□ ×	
+ New Name		
Azuretest-20171013-143344		
Source type     New (empty disk)	· · · · · · · · · · · · · · · · · · ·	
HI resources Account type 0		
Standard (HDD)	<b>~</b>	
Size (GiB) 0 (S) App Services 1023		
Virtual machines (class ESTIMATED PERFORMANCE 0		
Virtual machines IOPS limit 500		
Throughput limit (MB/s) 60 SQL databases		
Storage container     Cloud services (classic)     Inttps://actifiotest.blob.core.windows.net/actifiostorage	Browse	
Subscriptions     Storage blob name		
Azuretest-20171013-143344.vhd		
Monitor		
More services >		

#### **Disk Created**

- 13. Repeat the process to populate each Actifio pool with the required storage. Storage requirements for each pool are defined at the beginning of this chapter.
- 14. Once you have created all of the required disks, you are ready to install the Actifio Sky appliance. See Installing the Actifio Sky Appliance on page 13 for details.

# **5** Installing the Actifio Sky Appliance

When the Microsoft Azure instance is ready, you can enter the instance's Public IP in a browser and begin installing the Actifio Sky appliance in the instance. To obtain the Public IP, select the VM from the list of available VMs, click **Overview** and the Public IP will be displayed under Essentials:

Microsoft Azure Virtual	machines > Azuretest		₽ ₽ ≻ † ♡ 0
≡	Azuretest		
+ New	Search (Ctrl+/)	🏎 Connect 🕨 Start 🧲 Restart 🔳 Stop	→ Move 🏛 Delete 💍 Refresh
Dashboard	Overview	Resource group (change) ActifioSky1205 Status	Computer name Azuretest Operating system
📦 Resource groups	Activity log	Running	Windows Sino
All resources	Access control (IAM)	East US	Standard D1 (1 vcpu, 3.5 GB memory)
🕒 Recent	Tags	Subscription (change) Pay-As-You-Go Subscription ID	Public IP address 52.170.81.92 Virtual network/subnet
🔇 App Services	✗ Diagnose and solve problems	bea09913-d6a4-497f-90c3-97ea815b1720	ActifioSky12051800/default DNS name
👰 Virtual machines (class	SETTINGS		Configure *
Virtual machines	🧟 Networking	Show data for last: 1 hour 6 hours 12 hours 1 d	lay 7 days 30 days
🙀 SQL databases	and Disks		
Cloud services (classic)	💆 Size	CPU (average) 🧷 🖈	Network (total)
💡 Subscriptions	Extensions	100%	800k8
Azure Active Directory	<ul> <li>Availability set</li> <li>Configuration</li> </ul>	50%	400k3

#### **Display Public IP**

Once you have the Public IP, you are ready to install the Actifio Sky appliance:

1. Enter the Azure Cloud **Public IP** address in a browser's address space and the Actifio Appliance Installer is displayed:

#### **OCTIFIO** Radically Simple Appliance Installer

STEP 1: Setup Network (	Configuration STEP 2: Setup Storage Configuration STEP 3: Review and Complete Installation
All Items marked with (*	) are required.
Public IP	141 , 144 , 40 , 171
IPv4 address for cloud co	infiguration.
Appliance IP (*)	10 . 196 . 220 . 34
IPv4 address on port 1 fo joining this appliance with	r Actifio Desktop and CLI clients. Also used for h other PAS appliances.
Appliance Name (*)	ActifioSkyforAzure
DNS Server	10 . 196 . 220 . 33
Subnet Mask	255 . 255 . 252 . 252
Gateway	10 , 196 , 220 , 33
NTP Server	
Infrastructure	Azure V
Timezone	US/Eastern V
System uuid (*)	1415087994:9d6d63fb-a8bb-3911- 817e-10e18619c32f:432db74f
License	Evaluation license: Dedup pool size is set to 5TB with no encryption for 30 days from the start of installation. Please note that you will not be able to expand dedup copacity in the able to future.Contact Actific to upgrade to production license.
Create Admin Password ( Confirm Admin Password	Validate License           *)           (*)           Next >
	REBOOT OF THE ACTIFIO SKY APPLIANCE WILL OCCUR UPON COMPLETING INSTALLATION

#### Copyright Actific Inc. All Rights Reserved.

#### Actifio Sky Appliance Installer Step One

- 2. In the spaces provided enter the instance's Public IP.
- 3. Ensure that the auto discovered Actifio Sky appliance IP address is correct.
- 4. In the space provided, enter a name for the Actifio Sky appliance.
- 5. Ensure that the auto discovered network IP addresses are correct.
- 6. From the Infrastructure drop down menu, select **Azure**.
- 7. Set the time zone as needed.
- 8. If you are installing the Actifio Sky appliance as an evaluation, leave the **License Number** field set to the default setting.:

**Note:** The 5TB license is used for evaluations. If you decide to purchase a Actifio Sky appliance you will either keep the current 5TB appliance or your Actifio representative can work with you to increase the size of your Actifio Sky configuration.

- 9. If you are NOT installing this Actifio Sky appliance as an evaluation:
  - o Capture the System UUID and pass it on to the Actifio representative. The Actifio representative will use the UUID to generate the Actifio Sky appliance license key.

- o In the space provided, paste a copy of the license key you obtained from the Actifio representative.
- o Click Validate License to ensure the validity of the license entered.
- o If the license is valid, the Managed Data License (MDL) size will be displayed in a popup window. If there are any optional add-ons included in the license they will also be shown here.
- o If you are using an encryption license, a pass phrase field is displayed. Enter a pass phrase, record the pass phrase and keep it in a secure location.
- 10. In the spaces provided, create a password for the first Admin user of the Actifio Sky appliance. Record the password.
- actitio Appliance Installer Software Version: 7.0 (7.0.2.339) STEP 1: Setup Network Configuration STEP 2: Setup Storage Configuration STEP 3: Drag & Drop available Disks into pools to add storage Available Disks (4) PRIMARY POOL Required Size: 400 GB 200 8 sdd Size: 1023.00 GE sdb Size: 14.00 GB GB sdd Size: 1023.00 GB SNAPSHOT POOL Required Size: 10 GB 8 sdb Size: 14.00 GB sde Size: 1023.00 GB Required Size: 1024 GB 🥝 8 sdc Size: 1023.00 GB 8 sde Size: 1023.00 GB < Back Validate Installation
- 11. Click Next and the Step 2 tab contents are displayed:

Actifio Sky Appliance Installer Step Two

- 12. Select and drag the Available Disks to their associated pools. These are the disks you created when you configured the Actifio VM in Azure. Drag them to their corresponding pool.
  - o Primary Pool: Contains Actifio Sky system data. One 200 GB disk is required.
  - Snapshot Pool: Contains the retained Snapshots (full copies). The actual size required for this disk will be calculated by your Actifio representative. It will define enough disk storage to accommodate the number of full snapshots of data you plan to retain. You can at a later date add additional disk storage to accommodate growth. A minimum of 10 GB is required.
  - Dedup Pool: Contains the retained deduplicated data. The actual size required for this disk will be calculated by your Actifio representative. It will define enough disk storage to accommodate the number of deduped copies of data you plan to retain. A minimum of 100 GB is required.
- 13. Click **Validate Installation**. The Actifio Sky installer validates the settings. Any issues will appear in a yellow field at the top of the page 2. If no issues are encountered, the third tab is displayed:

STEP 1: Setup Network Configuration	STEP 2: Setup Storage Configuration STEP 3: Review and Complete Installation
Your settings have been validated successfully. Once you click "Complete Installation", the system will complete the installation and reboot. You will be redirected to 'Actifio Resource Page' but must wait approximately 30 minutes before the system is back online.	
< Back	
	REBOOT OF THE ACTIFIO SKY APPLIANCE WILL OCCUR UPON COMPLETING INSTALLATION

#### Actifio Sky Appliance Installer Step Three

- 14. The third tab provides the opportunity to review choices and go back and make changes as needed.
- 15. Once choices are verified, click **Complete Installation** and the Actifio Sky appliance will reboot. The reboot may take several minutes.

When the reboot finishes refer to the AGM on-line help for instructions on joining AGM to a Sky appliance. See the topic "Joining in Non-Sharing Mode."