# Deploying Actifio Sky from the AWS Marketplace





Actifio VDP 10.0

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### Preface

The information in this guide is intended for users who are configuring Actifio Sky for AWS.

After you have configured Actifio Sky for AWS, add the appliance to an AGM and manage the appliance from there. Consult **Getting Started with Actifio Copy Data Management**. It provides detailed instructions on using the unique features of Actifio Sky for AWS. A copy of this guide can be found in the ActifioNOW customer portal.

#### The ActifioNOW Customer Portal

From the customer portal you can obtain detailed reports about your appliance, as well as search the portal's knowledge base for answers to specific questions.

To log into the ActifioNOW customer portal:

- 1. Go to: https://now.actifio.com
- 2. When prompted, enter the user name and password you received after registering for Actifio Sky for AWS.

### **1** Introduction

Actifio Sky for AWS brings enterprise-class access, agility, and control to data in the Amazon cloud. Actifio Sky for AWS appliances are based on the Actifio's Sky virtual appliance. An Actifio Sky for AWS appliance is a virtual server designed to capture and manage data that resides on the servers in an AWS VPC.

Multiple Actifio Sky for AWS appliances can be deployed and configured. Each Actifio Sky for AWS appliance can capture local application data and replicate copies of the data to other Actifio Sky for AWS appliances.

After you have completed deploying Actific Sky for AWS, continue to adding the Sky appliance to an AGM. After you have added the appliance, you can manage the appliance from AGM.

### 2 Deploying Actifio Sky from the AWS Marketplace

Use the instructions in this chapter to subscribe to a Sky instance and then launch the Sky appliance from the Amazon marketplace.

**Note:** If you have multiple VPCs, configure your Actifio Sky for AWS appliance in the VPC that contains most of the applications to be protected. Applications that reside outside of the specified VPC can be protected if you provide a peering connection between VPCs via AWS.

This chapter has the following topics:

Subscribe to an Actifio Sky Appliance Instance from the Marketplace on page 3 Launching Actifio Sky for AWS from the Marketplace on page 6

#### Subscribe to an Actifio Sky Appliance Instance from the Marketplace

Before you begin, login to the Amazon marketplace.

To subscribe to an Actifio Sky appliance instance:

- 1. In the AWS Marketplace, click **Discover Products**.
- 2. In the search text box enter Actifio, then click **Search**. You will see the Actifio Sky for AWS product listed.

âWS Services - Re	source Groups 🛩 🐐		🛕 ActifioPresales-admin/masato.t_ + N. Virginia + Support +
AWS Marketplace $\qquad \times$	AWS Marketplace > Discover products	> Search results	
Manage subscriptions Discover products	Refine results	Search AWS Mark	etplace products
Product Support Connection	Categories	Q. Actifio	X
	Infrastructure Software		< 1 > @
	Pricing plans	Actifio (1 result) show	ing 1 - 1
	Hourly     Delivery methods     Amazon Machine Image	octifio	Actifio Sky for AVIS [2] By Actific Iver & 0.1 Lineur/Units, Centrol & 8 56-bit Amazene Machine Image (AMI)
	Vendors		Starting from \$2.40/hr or from \$19,500.00/yr (up to 16% savings) for software + AWS usage fees
	Actifio     Operating system     CentO5		Love the efficiency and scalability of the Amazon cloud, but need enterprise-class backup and recovery capabilities? Actifio Sky for AWS brings enterprise-class backup and scalable instant recovery for your enterprise applications ru ming in any AWS region. Do you have applications using MS SQL, O

- 3. Select from the product to view the product details.
- 4. Review more information about Actifio's offering with Sky in AWS.



- 5. Determine the type (size) of instance to deploy. Actifio provides a Solution Calculator that, based on your data requirements, will recommend a specific instance type (size).
  - a. To use the Actifio Solution Calculator, go to **Additional Resources** section and click **How to Size your solution**.

Usage Information	
Fulfillment Options	Additional Resources
64-bit (x86) Amazon Machine Image (AMI) Amazon Machine Image	How to Size your solution C
View Template Components	Support Matrix C*
- View Usage Instructions	
End User License Agreement	Amazon Machine Image
By subscribing to this product you agree to terms and conditions outlined in the product End User License Agreement (EULA) (2*	An Amazon Machine Image (AMI) provides the information required to launch an instance, which is a virtual server in the cloud. You specify an ANM when you launch an instance, and you can launch as many instances from the ANI as you need. You can also launch instances from as many different AMIs as you need. Learn more

The Actifio Solution Calculator page opens.

Dedup Pol	icies Used	Dedup Policies Not Used			
Instance Type	Actifio Sky Model	Instance Type	Actifio Sky Model		
m5.xlarge	5 TB	M5.2XLarge	60 TB		
m5.2xlarge	10 TB	M52XLarge	120 TB		
m5.4xlarge	30 TB	M5.4XLarge	200 TB		
r5.8xlarge	128 TB				

**Note:** These sizes are the minimum sizes required based on your Actifio Solution Calculator entries. You may use a larger size instance type as you see fit.

- b. Record the recommended size, you will need it when configuring the Actifio appliance.
- c. Close the sizing page to go back to the product page.
- 6. Next, click **Continue to Subscription**. You will see the subscription options.

- 7. Click **Accept terms** and then select the instance type.
- 8. Next, accept the terms of the subscription and click Continue to Configuration.
- 9. Select the Fulfillment option and then select the Sky version and region to install the instance:
  - o **Fulfillment Option** 64 bit (x86) Amazon machine Image (AMI)
  - o Software Version Always select the latest version.
  - o **Region** Select the region you want the Sky instance in.

Actifio Sky for AWS	Continue to Launch
roduct Detail Subscribe Configure	
onfigure this software	Software contract
noose a fulfillment option below to select how you wish to deploy the software, then enter the information quired to configure the deployment.	Select contract option(s) Total contract price \$0
Fulfilment Option	Total contract price \$0 Due now
64-bit (x86) Amazon Machine Image (AMI)	Cenate Contract
Software Version	Pricing information
8.0.1 (Apr 11, 2018) +	This is an estimate of typical software and infrastructure costs based on your configuration. Your actual charges for each statement period may differ from this estimate.
Region	Software Pricing
US East (N. Virginia) Ami Id: ami-75da3208	Actifio Sky for \$13.55/hr OR AWS \$100,035.00/yr nurving on mil.storpe
	Infrastructure Pricing
Save money by purchasing a software contract	EC2: 1 * m4.slarge Monthly Estimate: \$144.00/month
You can save on the cost of this software by purchasing a software contract. You will be charged the full fee when you confirm the contract purchase. The charge only covers the software cost over the contract duration.	
O Configure contract	

10. Click **Continue to Launch**. The Launch this software page opens. Continue to Launching Actifio Sky for AWS from the Marketplace on page 6.

#### Launching Actifio Sky for AWS from the Marketplace

To launch Actifio Sky for AWS:

1. In the Launch this software page, select **Launch through EC2** from the Choose Action dropdown.

**Note:** The connection methods and port ranges are listed under the Launch with EC2 Console option. You will have the opportunity to adjust those settings during the configuration process.

Launch this software teview your configuration and choose how you wish to launch the software. Configuration Details Fulfilment Option Software Version Software Version Region Usige Instructions Usige Instructions	
Fulfitment Option 64-bit (dBI) Anazon Machine Image (AMI) Actile Sky for AWS norman an exclusion Software Version 8.0.1 Region US East (N. Virgina)	
Fulfitment Option 64-bit (dBI) Anazon Machine Image (AMI) Actile Sky for AWS norman an exclusion Software Version 8.0.1 Region US East (N. Virgina)	
Actific 35% for AIPS serving or an address E.0.3 Region US Exet (A: Vingina)	
Software Version 8.0.1 Region US East (N. Virginia)	
Usage Instructions	
Choose Action	
Select a launch action	

- 2. Click **Launch** to open the launch console for the region in which the Actifio Sky appliance will be installed. The Step 2: Choose an Instance Type page opens. The requirements for Step 1 were satisfied when you subscribed to the Actifio product in Subscribe to an Actifio Sky Appliance Instance from the Marketplace on page 3.
- 3. Select the Instance type to be used with the Actifio Sky appliance.

The size to be used was determined by the Actifio Solution Calculator. These sizes are the minimum sizes required based on your Actifio Solution Calculator entries. You may use a larger instance.

- 4. Click Next: Configure Instance Details and the Step 3: Configure Instance Details page opens.
- 5. Enter the configuration data:
  - o **Network:** From the drop down list, select the VPC (network) for the Actifio Sky instance.
  - o Subnet: From the drop-down list, select the subnet for the Actifio Sky instance.
  - Auto-assign Public IP: From the drop down list, select Enable if this Actifio Sky instance requires access via the public Internet. This is not required if your IT infrastructure has a VPN.
- 6. Click Next: Add Storage and the Step 4 Add Storage page opens.

tep 4: Add																	
	he root w	olume. You can als	g storage device settings io attach additional EBS														
olume Type 🕕		Device (j)	Snapshot ①		Size (Gil	(i) <b>p</b>	Volume Type	00		IOPS ())	Throughput (MB/s)	Delete	on Terminat	tion	Encryption (	υ.	
pot		/dev/sda1	snap-0b4adcae55519	Nac78	130		General Purp	ose SSD (gp2)	4	390 / 3000	N/A	٥		1	Not Encrypted		
85		/dev/sdh \$	snap-0a5997ef05626	6	400		General Purp	ose SSD (gp2)		1200 / 3000	N/A				Not Encrypted		•
85		/dev/adi t	snap-0054o4f1e2bf5	¢	100		General Purp	ose 550 (gpl)		300 / 3000	N/A				Not Encrypted		•
EBS	=	/dev/sdj \$	snap-0ed223372d85	¢.	1024		General Purp	cose SSD (gp2)	\$	3072	N/A			1	Not Encrypted		
usage restrictio	ns.						rage. Learn more a	Dout mee usage or									
usage restrictio	15.						age. Looff more a	DOUR THEY URADE IN			J						
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usage restriction								oout mee usage se			]						
usage restricto	<b>19</b>							cout the usage se									
usage restrictio																	

- 7. You will need four provisioned disks for the installation process:
  - o 10 GB (minimum) for the Actifio Snapshot Pool.
  - o 200 GB disk for the Primary Pool.
  - o 100 GB (minimum) for the Actifio Dedup Pool. Actifio Sky appliances that will not use dedup policies must have a Dedup Pool with a minimum size of 1024GB.
  - o An SSD with a minimum of 5000 IOPS based on the size of your MDL:

Model	SSD Size	Optional/Required
50TB	512GB	Required
30TB	308GB	Required
10TB	103GB	Optional
5TB	53GB	Optional
ITB	1GB	Optional

Actifio Sky appliances that will not use dedup policies do not need to use SSDs.

- 8. Click Next: Tag Instance and the Step 5 Tag Instance page opens.
- 9. Create a tag for the Actifio Sky instance that is easy to remember and identify.
- 10. Click Next: Configure Security Group and the Step 6 Configure Security Group page opens.

security group is		ontrol the traffic for your instan		specific traffic to reach your instance. For example, if you elect from an existing one below. Learn more about Ama		sach your
		Create a new security gro				
		Select an existing security	group			
	Security group name:	Actifio Sky for AWS-8-0-	1-AutogenByAWSMP-			
	Description:	This security group was	generated by AWS Marketplace and is based	on recome		
ype 🕕		Protocol (1)	Port Range ①	Source (j)	Description (1)	
SSH :		TCP	22	(Custom \$ 0.0.0.00	e.g. SSH for Admin Desktop	
нттр ;		TCP	80	Custom \$ 0.0.0.070	e.g. SSH for Admin Desidop	
HTTPS :		TCP	443	Custom \$ 0.0.0.0/0	e.g. SSH for Admin Desidop	
Custom TCP I \$		TCP	5103	Custom \$ 0.0.0.0/0	e.g. SSH for Admin Desktop	
Custom TCP I \$		TCP	3260	Custom \$ 0.0.0.0/0	e.g. SSH for Admin Desktop	
Custom TCP I :		TCP	3269	Custom 2 0.0.0.0/0	e.g. SSH for Admin Desktop	

11. Ensure that the Security Group is set as follows:

Туре	Protocol	Port Range	Source	Custom TCP Rule
SSH	ТСР	22	Anywhere	0.0.0/0
HTTPS	ТСР	443	Anywhere	0.0.0/0
HTTP	ТСР	80	Anywhere	0.0.0/0
Custom TCP Rule	ТСР	5103	Anywhere	0.0.0/0
Custom TCP Rule	ТСР	3260	Anywhere	0.0.0/0
Custom TCP Rule	ТСР	3269	Anywhere	0.0.0/0

12. Click **Review and Launch** and a page opens detailing your selections and settings.

13. If the selections and settings are correct, click **Launch** and the Actifio Sky appliance is deployed.

14. Continue on to Chapter 3, Upgrading Sky Appliance.

## 3 Upgrading a Sky Appliance

Use the instructions in this chapter to upgrade the Sky appliance you have launched (using instructions in Launching Actifio Sky for AWS from the Marketplace on page 6) to the latest recommended software version.

It has the following sections:

Obtain the Upgrade File on page 11 Upgrade the Sky Appliance on page 11

#### Obtain the Upgrade File

Your customer support representative will provide you with the latest patch-SKY-actifioversion.gpg upgrade file. Place a copy of that file in a location that is easily accessible from your browser.

#### Upgrade the Sky Appliance

To upgrade the Sky appliance:

1. Open a browser and in the address space enter the Public IP address of the appliance:

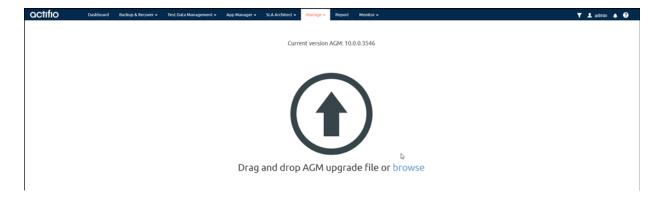
https://<Public IP of the Sky>/appliancesetup The Actifio Desktop login page opens.



- 2. Enter the login credentials:
  - o For Username, enter admin
  - o For **Password**, use the Instance ID. Like the Public IP, you can find the Instance ID in the EC2 instance's Description tab.
- 3. Click **Sign in** and the Actifio Dashboard opens. The Dashboard shows a high-level view of your appliance's status.

Tifio Dashboard Backup & Recover - Test D	sta Management v App Manager v SLA Architect v Manage v Report Monitor v		🝸 👤 admin 🌲
applications*	Job Status	Ev	ents (Last 24 Hours)*
Managed(80)  Unmanaged(2514)  Unscheduled(19)	Current Jobs Past Jobs Last 24 Hours 🔹		8
	Running(0)      Queued(0)     Succeeded(296)      Failed(10)      Retried(64)      Not Run(\$13)		53 66
			Errors Warnings
2514		JOB TYPES APPLIANCES AP	pliances Health
2.514 Unmanaged			k Usage
		Clone 2 🗸	napshot Pool 3 0 0
			rimary Pool 3 0 0
	30		Vedup Pool 3 0 0 0
ick on labels to view details	Failed	На	dware
Aanaged Data			Disk Utilization 1
		So	tware
166.3 GB			ocal Snapshot
100.5 65			ocal Dedup
019-12-05 00:00:00	Click on labels to view details		lemote Manage 0 0 0 0
Dedup		AC	M Connections
			ppliances 1 2
739.1 GB	109.0 GB	6.8 : 1	
Logical Copy Data	Dedup Used	Dedup Efficiency	ick on numbers to view details

4. From the AGM Dashboard, click the **Manage** tab and select **Upgrade** from the drop-down menu to upload the upgrade file. See Obtain the Upgrade File on page 11 for more information.



5. Follow the prompts to install the upgrade file.

When the upgrade is complete, a success message is displayed.

#### Next Steps

Add the Sky appliance to an AGM using the instructions in the AGM online help topic "Adding an Appliance to AGM." You can access the Online Help from AGM. After you add the appliance, you can manage it from AGM.