



# **Attaching Amazon AWS Storage Resources to StoneFly SCVM™**

Storage Concentrator™ Virtual Machine  
Software-Defined Virtual Storage Appliance

Revision 2017.1

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## 1. Introduction

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Cloud Backup and replication has become a necessity to protect against local disasters and precious data loss by copying your application, files, servers or virtual machines to a remote location in the cloud. With a cloud backup solution in place you can isolate your data from local device failure, natural disasters or malware attack and ensure you can quickly restore your system following an outage.

StoneFly Cloud Connect for backup and replication to Amazon AWS offers a turnkey, cost-effective solution for enterprises to connect their on-premise backup and replication archives to the AWS cloud for effortless protection of all data and devices.

## 2. Scope of the document

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This document describes the steps required for setting up your Amazon web services (AWS) account and attaching your AWS S3 Storage resources to the StoneFly Storage Concentrator Virtual Machine™ (SCVM™).

The document demonstrates the steps required for connecting your AWS S3 Storage Resources OR Compatible AWS S3 Storage Resources to the SCVM™, how to create NAS volumes from those resources and the assignment of the created volumes for users' access.

Note that Guide to StoneFly SCVM™ deployment is provided in a separate document.

### 3. Amazon AWS Configurations

This section describes the configuration steps required in your AWS account to connect AWS storage resources to the SCVM™.

- 1) Login in to your AWS account using your credentials. Create a new account if you do not have one already.



Account:

User Name:

Password:

MFA users, enter your code on the next screen.

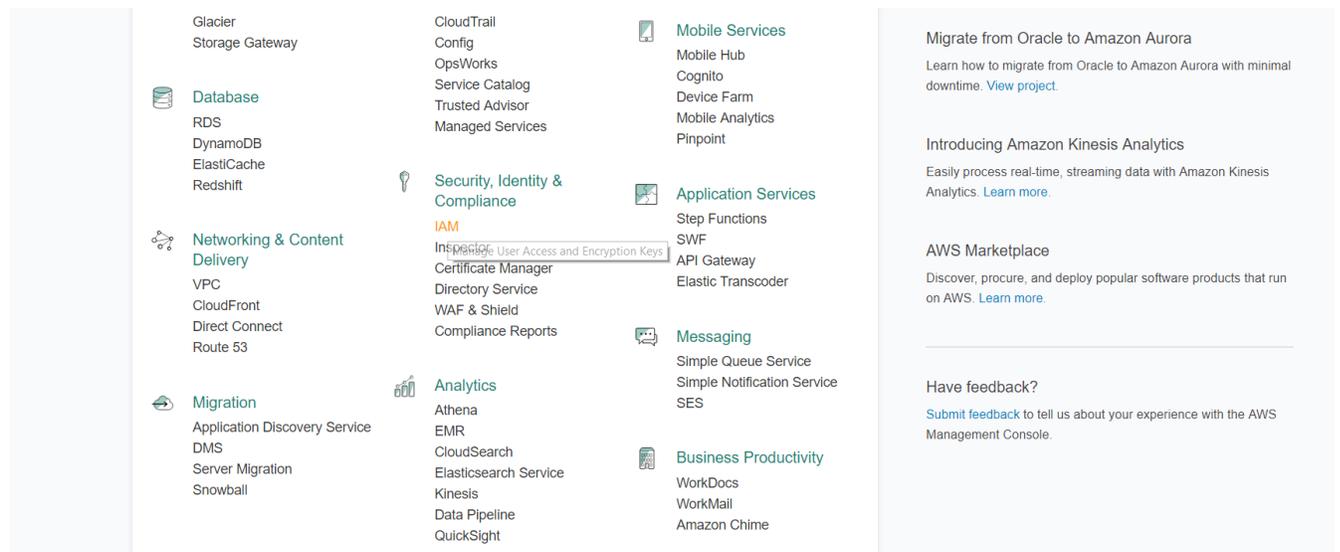
Sign-in using root account credentials



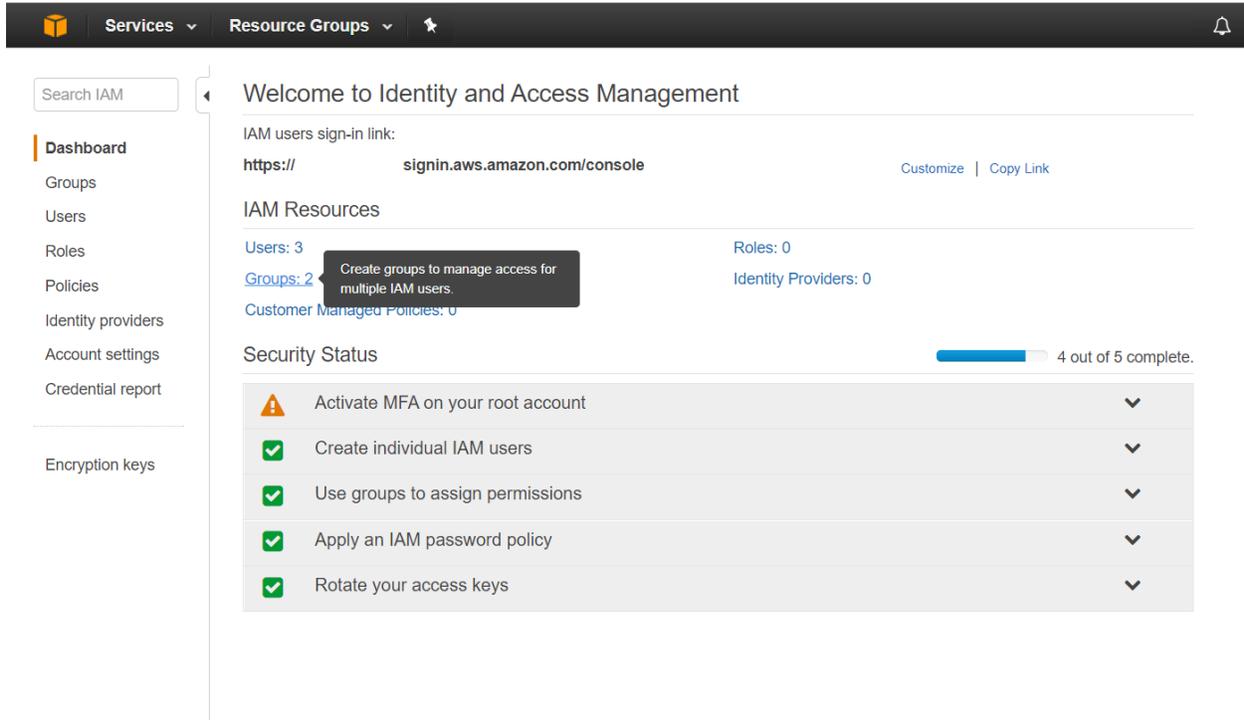
English

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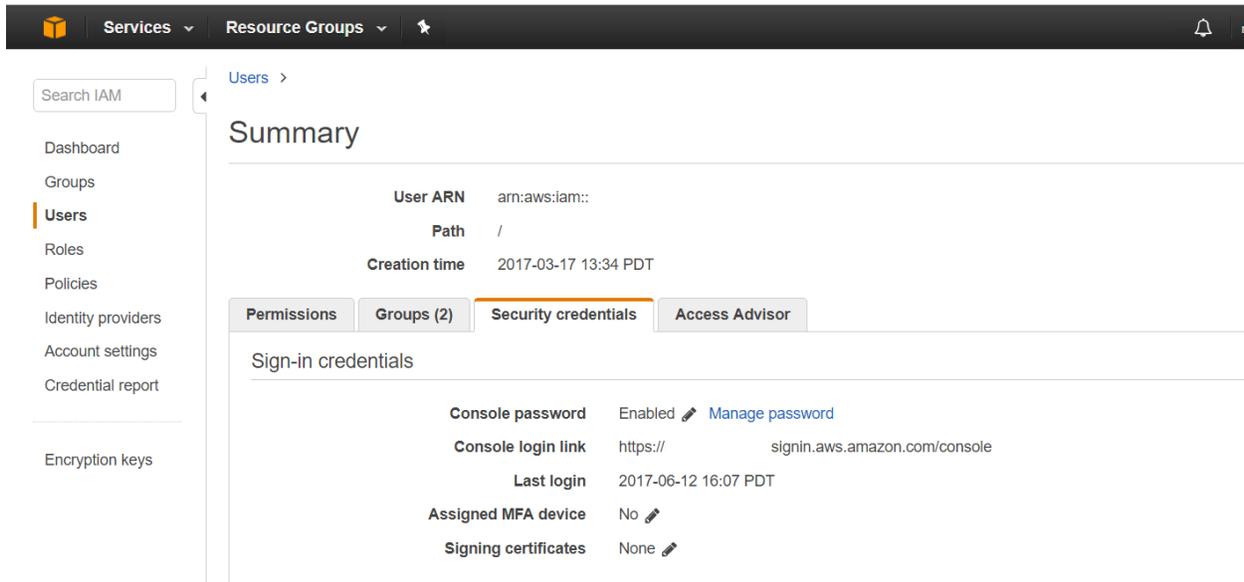
- 2) Once logged in, click on the **IAM** under “Security, Identity & Compliance”.



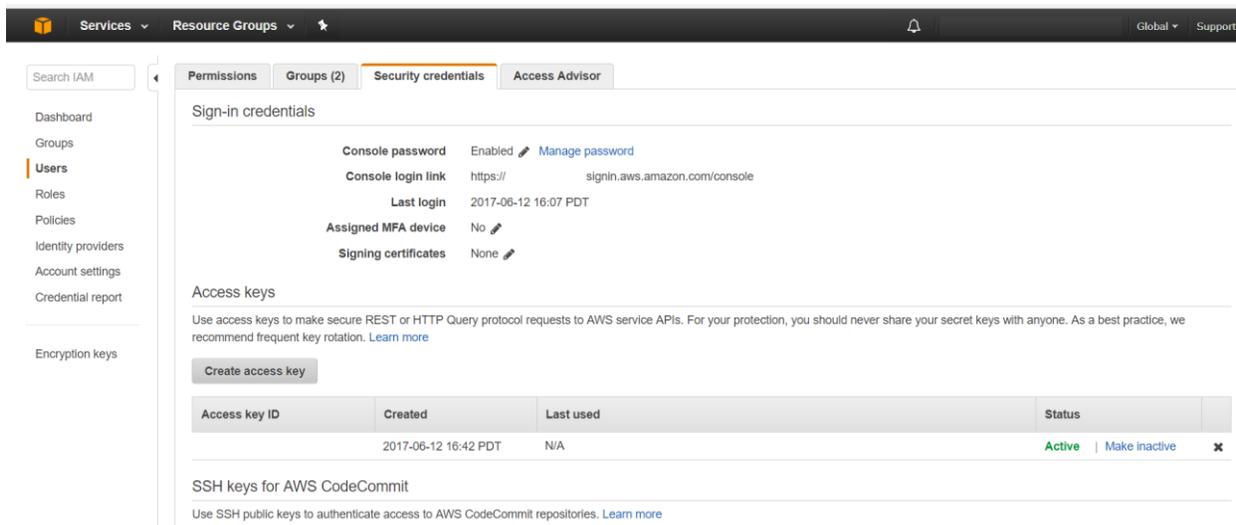
3) Under "IAM", click on **Users** and select one of the desired users.



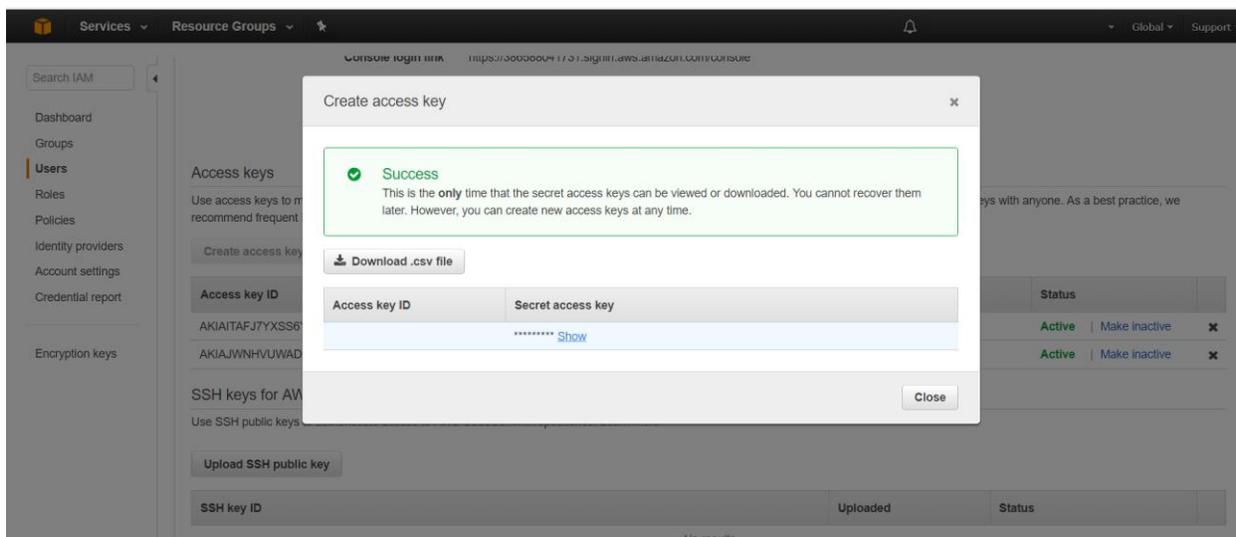
4) Goto the **Security Credentials** tab.



5) Click on **Create access key** under the “Security Credentials” tab.



6) New “Secret access key” will be generated along with “Access key ID”. Click on **show** to display the “secret access key” or choose to **download** the secret key file.



## 4. Attaching your AWS / Compatible AWS S3 Storage to the SCVM

In this section, the steps required in the SCVM™ to attach your AWS storage resources are described along with the steps to create and assign NAS volumes for user access.

- 1) On your SCVM GUI page, click on **Cloud Object Storage** under the “Resources” tab.

The screenshot shows the StoneFly SCVM GUI for the system 'SC(66.220.18.244)' at IP 66.220.18.244, with a status of 'Good'. The 'Resources' tab is active, and the 'Create Object Storage' option is highlighted in the left-hand menu. The main content area shows system details: Name: SC(66.220.18.244), Mgmt IP: 66.220.18.244, and iSCSI IP: (blank). Below this is a monitor icon with the StoneFly logo. To the right, a 'Discovered SC's' panel lists three discovered storage controllers: SC(66.220.18.244), SC(66.220.18.251), and SC(66.220.18.252), each with a checkbox and an 'Open' button. At the bottom, the 'Resources' section shows a 'VMware-Virtual disk' with path '2:0:1' and a usage bar indicating 0 GB used and 0 GB available out of a total of 101 GB. A legend indicates that orange represents 'Used', light blue represents 'Available', and grey represents 'Not managed'.

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2) Select **Amazon AWS S3 Storage** from the drop menu.

The screenshot shows the StoneFly SCVM interface. At the top, there is a logo and the text "'SC(66.220.18.244)' at IP 66.220.18.244" and a "Status: Alert" button. Below this is a navigation bar with tabs: Volumes, Hosts, Sessions, Resources, NAS, System (selected), Users, and Reports. Under the "System" tab, there is a "Create Object Storage" section with a "Help" button. Below this, there are sub-tabs: Summary, Detail, Create Flash Cache, Flash Cache Configuration, and Create Object Storage (selected). The main content area shows a "Create Object Storage Resource" form. The "Object Storage Service Type" dropdown menu is open, showing the following options: "Select Service Type", "Amazon AWS S3 Storage" (highlighted), "Compatible AWS S3 Storage", and "Microsoft Azure Blob Storage". A "Submit" button is located below the dropdown. At the bottom of the page, there is a copyright notice: "Copyright© 2002-2017 StoneFly, Inc. All Rights Reserved."

3) Copy the "[Access Key ID](#)" and "[Secret Access Key](#)" created in your AWS account.

The screenshot shows the AWS "Create access key" dialog box. At the top, there is a title bar "Create access key" with a close button (x). Below the title bar, there is a success message: "Success" with a green checkmark icon. The message text reads: "This is the **only** time that the secret access keys can be viewed or downloaded. You cannot recover them later. However, you can create new access keys at any time." Below the message, there is a "Download .csv file" button. Below the button, there is a table with two columns: "Access key ID" and "Secret access key". Below the table, there is a "Hide" link. At the bottom right of the dialog box, there is a "Close" button.

- 4) Enter the copied "Access key ID" and "Secret access key" into the SCVM "Create Object Storage Resource" page.  
AWS S3 Bucket name can be any name for reference but must be a globally unique name.  
Enter the **resource size/storage size** you want to add as a block storage and click **submit**.

The screenshot displays the StoneFly SCVM interface for creating an object storage resource. At the top, the StoneFly logo is on the left, the server identifier "'SC(66.220.18.244)' at IP 66.220.18.244" is in the center, and the status "Alert" is on the right. Below this is a navigation bar with tabs for Volumes, Hosts, Sessions, Resources, NAS, System (selected), Users, and Reports. Under the System tab, there are sub-tabs for Summary, Detail, Create Flash Cache, Flash Cache Configuration, and Create Object Storage (selected). The main form area is titled "Create Object Storage Resource" and contains the following fields:

- Object Storage Service Type:** Amazon AWS S3 Storage (dropdown)
- AWS S3 Account Key ID:** [Empty text input]
- AWS S3 Account Secret Key:** [Empty text input]
- AWS S3 Region:** US West (Oregon) - us-west-2 (dropdown)
- AWS S3 Bucket Name:** stonefly-container (text input)
- Maximum Resource Size (GB or TB) (thinly provisioned):** 10 (text input) GB (dropdown)
- Use SSL:**
- Encryption:**  Use at Rest Encryption
- Encryption Password:** [Empty text input]
- Confirm Password:** [Empty text input]

A "Submit" button is located at the bottom center of the form.

If you have selected **Compatible AWS S3 Storage** to create the Object Storage, the following screen will appear.

The screenshot shows the StoneFly SCVM interface. At the top left is the StoneFly logo. To its right, the text reads "'SC(66.220.18.244)' at IP 66.220.18.244". On the top right, there is a 'Status: Alert' indicator. Below this is a navigation menu with tabs: Volumes, Hosts, Sessions, Resources, NAS, System (highlighted), Users, and Reports. Under the 'System' tab, there is a 'Create Object Storage' section with a 'Help' link. Below the navigation is a sub-menu with 'Summary', 'Detail', 'Create Flash Cache', 'Flash Cache Configuration', and 'Create Object Storage' (highlighted). The main content area is titled 'Create Object Storage Resource'. It features a dropdown menu for 'Object Storage Service Type' set to 'Compatible AWS S3 Storage'. Below this are several input fields: 'AWS S3 Base URL', 'AWS S3 Account Key ID', 'AWS S3 Account Secret Key', 'AWS S3 Region (optional)', 'AWS S3 Storage Class' (set to 'Default, Standard'), 'AWS S3 Bucket Name', and 'Maximum Resource Size (GB or TB) (thinly provisioned)' (with a 'GB' dropdown). There are also checkboxes for 'Use Compression' (checked) and 'Use SSL' (unchecked). An 'Encryption' section includes a checkbox for 'Use at Rest Encryption' (unchecked) and two password input fields labeled 'Encryption Password' and 'Confirm Password'. A green 'Submit' button is located at the bottom of the form.

Enter the **AWS S3 Base URL**. This is the URL for your “Compatible AWS S3 Storage” provider. Fill in the rest of the required fields as described above and click on **Submit**.

- You will see Object storage added to the resources in the SCVM. Select **NAS Managed** radio button and click **submit**.

The screenshot displays the 'Resources' section of the StoneFly SCVM interface. The top navigation bar includes 'Volumes', 'Hosts', 'Sessions', 'Resources', 'NAS', 'System', 'Users', and 'Reports'. Below this is a 'Resource Management' header with a 'Help' link. The main content area is divided into 'Summary', 'Detail', 'Create Flash Cache', 'Flash Cache Configuration', and 'Create Object Storage' tabs. The 'Resources' section is active, showing a configuration for 'Amazon-AWS S3' with the path 'AWS\_S3'. A usage summary indicates 'Used: 0 GB', 'Avail: 0 GB', and 'Total: 11 GB'. A legend shows 'Used' (orange), 'Available' (blue), and 'Not managed' (grey). A 'Resource Interface Address' field is present with a 'Submit' button. Below this is a 'Discover' button. At the bottom, a 'Resource Summary' table is shown as of 'Mon 12 Jun 2017 05:28:00 PM PDT', with 'check all' and 'clear all' links. The table lists the resource as 'NAS Managed' with a total size of 11 GB and an available size of 0 GB. A 'Submit' button is located at the bottom of the interface.

Use Type	Resource Name	Path	Type	Total Size (GB)	Available Size (GB)	Status	Delete
<input type="radio"/> None <input checked="" type="radio"/> NAS Managed	<a href="https://s3-us-west-2.amazonaws.com/stonefly-container">s3-us-west-2.amazonaws.com/stonefly-container</a>		Object Storage	11	0	Active	<input type="checkbox"/>

# Attaching Amazon AWS Storage to StoneFly SCVM™

6) 100% usage of the resource for NAS pool is displayed.

The screenshot shows the StoneFly SCVM interface. At the top left is the StoneFly logo. The main header displays the host information: "'SC(66.220.18.244)' at IP 66.220.18.244". On the top right, the status is "Alert". Below the header is a navigation menu with tabs: Volumes, Hosts, Sessions, Resources (selected), NAS, System, Users, and Reports. Under the Resources tab, there is a "Resource Management" section with sub-tabs: Summary, Detail, Create Flash Cache, Flash Cache Configuration, and Create Object Storage. The main content area is titled "Resources" and features a card for "Amazon-AWS S3". The card shows the path "AWS\_S3" and a storage icon. To the right, the "Usage" section displays: "Used: 11 GB", "Avail: 0 GB", and "Total: 11 GB". A progress bar is shown at 100% with an orange hatched pattern. A legend below the bar indicates: orange for "Used", light blue for "Available", and grey for "Not managed". At the bottom of the card, there is a "Resource Interface Address" input field and a "Submit" button.

7) Goto Segments→**Segment Create** under "NAS" tab to create a NAS Segment.

The screenshot shows the StoneFly SCVM interface with the "NAS" tab selected. The navigation menu includes: Volumes, Hosts, Sessions, Resources, NAS (selected), System, Users, and Reports. Under the NAS tab, there is a "Resource Management" section with sub-tabs: Volumes », CIFS Users », NAS Sessions, Segments », and Scale Out ». The "Segments »" sub-tab is expanded, showing "Summary" and "Segment Create" (highlighted). The main content area shows the "Amazon-AWS S3" resource card with the path "AWS\_S3" and a storage icon. To the right, the "Usage" section displays: "Used: 0 GB", "Avail: 0 GB", and "Total: 11 GB". A legend below the bar indicates: orange for "Used", light blue for "Available", and grey for "Not managed". At the bottom of the card, there is a "Resource Interface Address" input field and a "Submit" button.

- 8) Enter any **NAS Segment name** and click **Create Direct** tab.  
 Check **Select Resource** radio button against the volume you just created.  
 Click **submit** to create a NAS segmet.


'SC(66.220.18.244)' at IP 66.220.18.244
Status: Alert

Volumes	Hosts	Sessions	Resources	NAS	System	Users	Reports
NAS Volume Management - Segments - Segment Create							Help
Volumes	CIFS Users	NAS Sessions	Segments		Scale Out		
Summary			Segment Create				

NAS Segment Name

**NAS Segment Name**

**Encryption**

Store Encrypted Data

Volume Password

Confirm Password

256 ▾ Encryption Key Size (bits)

Auto Create
Manual Create
Create Direct

Create

Select Resource	Amount To Use(GB)	Path	Resource Name ▲	Provision on SC	Block Size	Total (GB)	Available (GB)
<input checked="" type="radio"/>	<input style="width: 50px;" type="text" value="10"/>	AWS_S3	s3-us-west-2.amazonaws.com/stonefly-container	SC(66.220.18.244)	262144	11	10

Undo
Submit

9) Goto NAS→Volumes→Create New Volume and click on **allocate**.

STONEFLY 'SC(66.220.18.244)' at IP 66.220.18.244 Status: Alert

Volumes	Hosts	Sessions	Resources	NAS	System	Users	Reports
NAS Volume Management - Segments				Volumes »	Summary		Help
Volumes	CIFS Users	NAS Sessions	CIFS Users »	Create New Volume »	Share	Scale Out	
Summary Segment Create				NAS Sessions	Configure Volume »	Allocate	
NAS Segments Summary as of Thu 08 Jun 2017 01:22:05 PM PDT				Segments »	Add Image »	Attach	check all
				Scale Out »	Manage Image »	Disperse	clear all
<a href="#">NAS Segment Name▲</a>	Type	Provision on SC	Size	Manage Snapshot »	Metadata	Status	Delete
<a href="#">nas-segment-0001</a>	local, object	SC(66.220.18.244)		Expand »	% / 1%	Active	<input type="checkbox"/>
<a href="#">Discover</a>				Rename Volume			
<a href="#">Submit</a>				CIFS Access			

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10) Enter any **NAS Volume Name** and check the **CIFS** check box for the volume to be used for windows.

**Select NAS segment** you just created from the SC drop down menu.

Click **submit** to create the volume.

The screenshot displays the StoneFly SCVM web interface. At the top left is the StoneFly logo. The main header shows the host name 'SC(66.220.18.244)' at IP 66.220.18.244 and a status indicator 'Alert'. A navigation menu includes 'Volumes', 'Hosts', 'Sessions', 'Resources', 'NAS', 'System', 'Users', and 'Reports'. The 'NAS' menu item is active, leading to 'NAS Volume Management - Volumes - Create New Volume'. Below this is a sub-menu with 'Volumes', 'CIFS Users', 'NAS Sessions', 'Segments', and 'Scale Out'. The main content area has a 'Summary' tab selected, with 'Create New Volume' as the active sub-tab. The form is titled 'Allocate New Volume' and contains several sections: 'Share' (Allocate, Attach, Disperse), 'New Volume' (NAS Volume Name: nas-volume-0001, Notes: Enter notes here...), 'Export As' (CIFS checked, NFS unchecked), 'Encrypt CIFS Sessions' (unchecked), 'CIFS Recycle Bin' (Enabled: unchecked, Volume Maximum Size: 10240 MB, Maximum Size: 512 MB), and 'Select NAS Segment' (SC(66.220.18.244): nas-segment-0001(10 GB)). At the bottom are 'Undo' and 'Submit' buttons. The footer contains the copyright notice: 'Copyright© 2002-2017 StoneFly, Inc. All Rights Reserved.'

11) Click on the **Summary** tab to check the **Operational state** of the NAS volume. **Ok** should be displayed under the "operational state".

The screenshot shows the StoneFly SCVM interface for 'SC(66.220.18.244)' at IP 66.220.18.244. The status is 'Alert'. The 'NAS' tab is selected, showing 'NAS Volume Management - Volumes - Summary'. A sub-menu includes 'Summary', 'Create New Volume', 'Configure Volume', 'Add Image', 'Manage Image', 'Snap Management', 'Expand', 'Rename Volume', and 'CIFS Access'. The 'Summary' sub-tab is active, displaying a table of NAS Volumes as of Thu 08 Jun 2017 01:31:11 PM PDT.

Volume Name▲	Type	Notes	Operational State	Size(GB)	Usage: Disk / Metadata	Active Sessions	Snapshots	Delete
<a href="#">nas-volume-0001</a>	Distributed, local, object	N/A	OK	10	1% / 1%	0	N/A	<input type="checkbox"/>

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12) Goto System→Admin and click on the **DNS Server**.



'SC(66.220.18.244)' at IP 66.220.18.244

Status: Alert

Volumes	Hosts	Sessions	Resources	NAS	System	Users	Reports
					Information		Help
					Admin »	General	
					Network »	iSNS	red SC's
					Target Portals »	Auto Save	20.18.244)
					Diagnostics	Restore	20.18.251)
					Notifications »	FailOver »	20.18.252)
					UPS	Licensing	Open
					Fibre Channel	System Monitoring	
						NAS Server	
						<b>DNS Server</b>	

Concentrators		
iSCSI IP	NAS SAN IP	NAS
192.168.1.244	192.168.1.244	66.220.18.244

**Primary**

Name: SC(66.220.18.244)  
Mgmt IP: 66.220.18.244  
iSCSI IP: 192.168.1.244



Resources	
Microsoft-Azure Blob	Usage
Path: Azure	Used: 11 GB    Avail: 0 GB    Total: 11 GB
	<div style="background-color: orange; width: 100%; height: 15px; border: 1px solid #ccc;"></div> <p>100%</p>
	<input checked="" type="checkbox"/> Used <input type="checkbox"/> Available <input type="checkbox"/> Not managed
VMware-Virtual disk	Usage
Path: 2:0:1	Used: 1 GB    Avail: 100 GB    Total: 101 GB
	<div style="background-color: lightblue; width: 100%; height: 15px; border: 1px solid #ccc;"></div>

13) Enter the **DNS domain name** and then click on **submit** to save the changes.


'SC(66.220.18.244)' at IP 66.220.18.244
Status: Alert

Volumes	Hosts	Sessions	Resources	NAS	System	Users	Reports
DNS Server							Help
Information	Admin	Network	Target Portals	Diagnostics	Notifications	UPS	Fibre Channel

General	ISNS	Auto Save	Restore	FailOver	Licensing	Monitoring	NAS Server	DNS Server
---------	------	-----------	---------	----------	-----------	------------	------------	------------

DNS Server Names	
DNS Domain Name	<input type="text" value="stonefly.com"/>
Management LAN DNS Name	<input type="text" value="SC-66-220-18-244"/>
iSCSI SAN DNS Name	<input type="text"/>
NAS SAN DNS Name	<input type="text" value="sc-nas-san"/>
NAS LAN DNS Name	<input type="text" value="sc-nas-lan"/>
Primary Upstream DNS Server IP	<input type="text"/>
Secondary Upstream DNS Server IP	<input type="text"/>

Default
Undo
Submit

DNS Server Addresses	
Management LAN IP	66.220.18.244
iSCSI SAN IP	
NAS SAN IP	192.168.1.244
NAS LAN IP	66.220.18.244

14) Goto System→Admin and click on **NAS Server**.


'SC(66.220.18.244)' at IP 66.220.18.244
Status: Alert

Volumes	Hosts	Sessions	Resources	NAS	System	Users	Reports
DNS Server					Information		Help
Information	Admin	Network	Target Portals	Diagnostics	Admin »	General	Fibre Channel
General	iSNS	Auto Save	Restore	FailOver	License	iSNS	DNS Server
DNS Server Names					Target Portals »	Auto Save	
DNS Domain Name					stonefly.com	Diagnostics	Restore
Management LAN DNS Name					SC-66-220-18-244	Notifications »	FailOver »
iSCSI SAN DNS Name						UPS	Licensing
NAS SAN DNS Name					sc-nas-san	Fibre Channel	System Monitoring
NAS LAN DNS Name					sc-nas-lan		NAS Server
Primary Upstream DNS Server IP							DNS Server
Secondary Upstream DNS Server IP							

Default
Undo
Submit

DNS Server Addresses	
Management LAN IP	66.220.18.244
iSCSI SAN IP	
NAS SAN IP	192.168.1.244
NAS LAN IP	66.220.18.244

- 15) Enter the **Active Directory domain name** and **Active Directory Kerberos Realm** as shown in the image below.  
Click on **submit** to save the changes.

The screenshot shows the StoneFly SCVM web interface. At the top left is the StoneFly logo. To its right, the text reads "'SC(66.220.18.244)' at IP 66.220.18.244". On the top right, there is a 'Status:' label with an orange 'Alert' button.

The main navigation bar includes tabs for Volumes, Hosts, Sessions, Resources, NAS, System (highlighted in green), Users, and Reports. Below this is a sub-menu for 'NAS Server' with a 'Help' button. Further down, there are tabs for Information, Admin, Network, Target Portals, Diagnostics, Notifications, UPS, and Fibre Channel.

The 'NAS Server' configuration page is displayed, with sub-tabs for General, iSNS, Auto Save, Restore, FailOver, Licensing, Monitoring, NAS Server (highlighted), and DNS Server. The 'NAS Server User Authentication Configuration' section is active, showing a dropdown menu for 'CIFS User Authentication Mode' set to 'ACTIVE DIRECTORY'.

Below this, several configuration fields are visible:

- Active Directory Domain Name: stonefly
- Active Directory Kerberos Realm: stonefly.com
- Active Directory Storage Node Name: SC-18-244
- Active Directory Kerberos Servers (optional):
- Active Directory Domain Servers (optional):
- Storage Concentrator Host Name: SC-66-220-18-244
- DNS Domain Name: stonefly.com

16) You will be asked to enter the **Active Directory administrative User ID and Password.**

Enter the **User ID** and **Password.**

Click on **Join Domain.**

### NAS Server User Authentication Configuration

CIFS User Authentication Mode: ACTIVE DIRECTORY

Active Directory Domain Name	STONEFLY
Active Directory Kerberos Realm	STONEFLY.COM
Active Directory Storage Node Name	SC-18-244
Active Directory Kerberos Servers (optional)	
Active Directory Domain Servers (optional)	
Storage Concentrator Host Name	SC-66-220-18-244
DNS Domain Name	stonefly.com
DNS Client Primary IP	8.8.8.8
DNS Client Secondary IP	
NTP Client Primary	us.pool.ntp.org
NTP Client Secondary	

Default Undo Submit

#### Active Directory Status: ERROR (1)

```
Thu Jun 8 16:07:49 2017
SC(66.220.18.244): CIFS ADS Domain not yet joined successfully.
```

#### NAS Server Active Directory Command

Enter Active Directory Domain administrative user name and password:

User ID	.....
Password	.....

Join Domain Test Domain Leave Domain

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17) The Active Directory domain has been registered.

Goto NAS→Volumes and click on **CIFS Access** to provide an active directory user the access to your volume.

The screenshot shows the StoneFly SCVM interface for server 'SC(66.220.18.244)' at IP 66.220.18.244. The status is 'Alert'. The main navigation bar includes Volumes, Hosts, Sessions, Resources, NAS, System, Users, and Reports. The 'NAS' menu is expanded, showing options like Volumes, CIFS Users, NAS Sessions, Segments, Scale Out, Add Image, Manage Image, Manage Snapshot, Expand, Rename Volume, and CIFS Access (highlighted). The 'CIFS User Authentication Mode' is set to 'ACTIVE DIRECTOR'. Below, the 'Active Directory User Authentication' section shows fields for:
 

- Active Directory Domain Name: STONEFLY
- Active Directory Kerberos Realm: STONEFLY.COM
- Active Directory Storage Node Name: SC-18-244
- Active Directory Kerberos Servers (optional):

18) In CIFS Access tab, select the volume that you created earlier.

Under the **“Active Directory Group CIFS Access to volume”** select **All** from the drop down menu next to **Show**.

Click on **submit**. This will show all the Active Directory groups in the domain.

Select any group and provide that group any level of access using the drop down menu next to **Set Access to**. Click on **submit**.

The screenshot shows the StoneFly SCVM interface for server 'SC(66.220.18.244)' at IP 66.220.18.244. The status is 'Alert'. The main navigation bar includes Volumes, Hosts, Sessions, Resources, NAS, System, Users, and Reports. The 'NAS' menu is expanded, showing options like Volumes, CIFS Users, NAS Sessions, Segments, Scale Out, Add Image, Manage Image, Snap Management, Expand, Rename Volume, and CIFS Access (highlighted). The 'CIFS Access' section is active, showing a 'Select Volume' dropdown menu with 'nas-volume-0001' selected. Below, the 'Active Directory Groups CIFS Access to nas-volume-0001' section is visible, showing a 'Show' dropdown menu with 'All' selected, a 'Set Access To' dropdown menu with 'RW' selected, and buttons for 'Select All', 'Undo', and 'Submit'. The 'Active Directory Users CIFS Access to nas-volume-0001' section is also visible, showing a 'Show' dropdown menu with 'None' selected, a 'Set Access To' dropdown menu with 'RW' selected, and buttons for 'Select All', 'Undo', and 'Submit'.