Attaching Azure Blob Storage to StoneFly SCVM™

Storage Concentrator™ Virtual Machine
Software-Defined Virtual Storage Appliance

Revision 2017.1

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1. Introduction

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

2. Scope of the document

This document describes the steps required for setting up your Microsoft Azure account and attaching your Azure Blob storage resources to the StoneFly Storage Concentrator Virtual Machine™ (SCVM™).

The document demonstrates the steps required for connecting your Azure 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.

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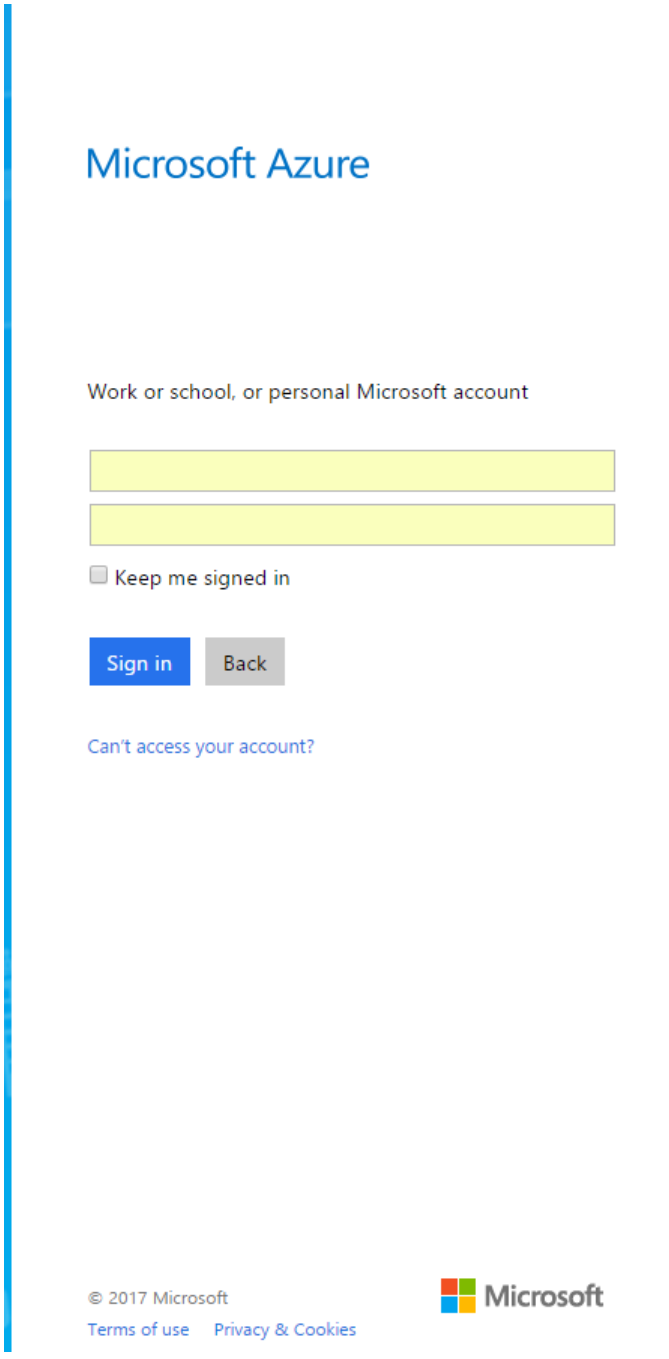
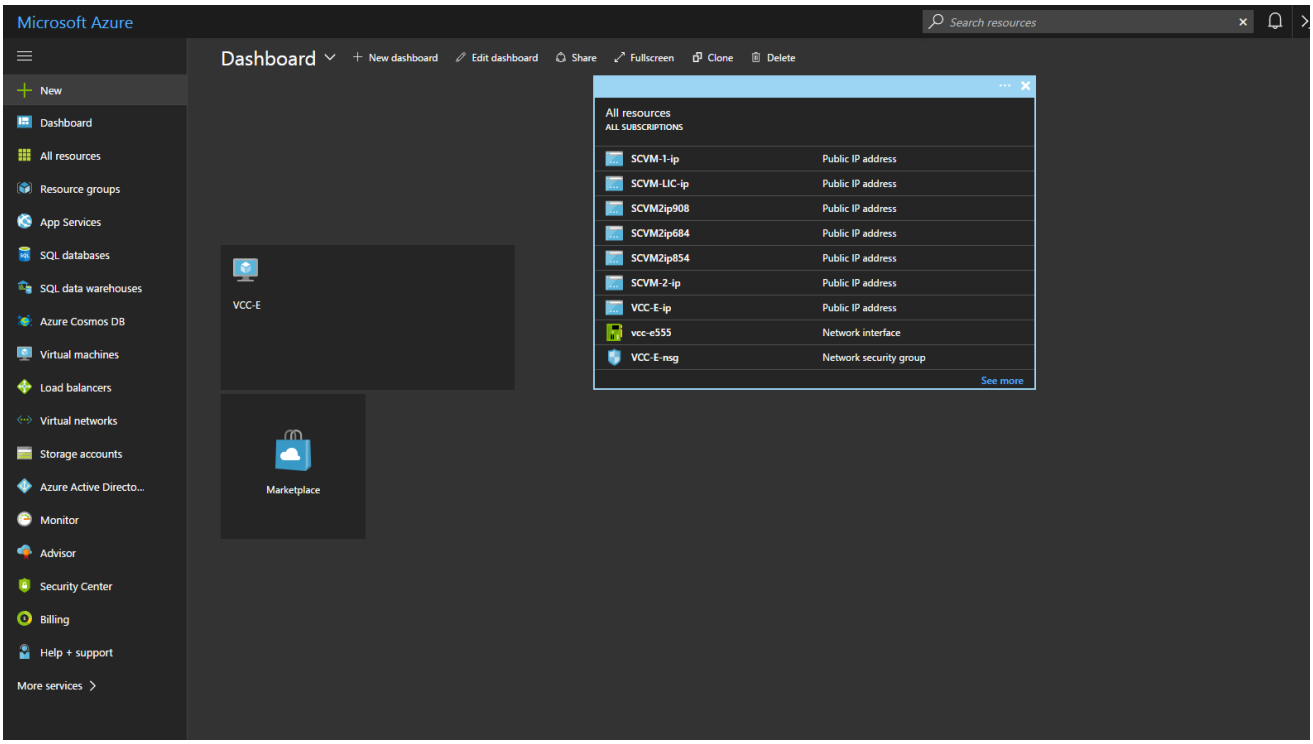
3. Microsoft Azure Configurations

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

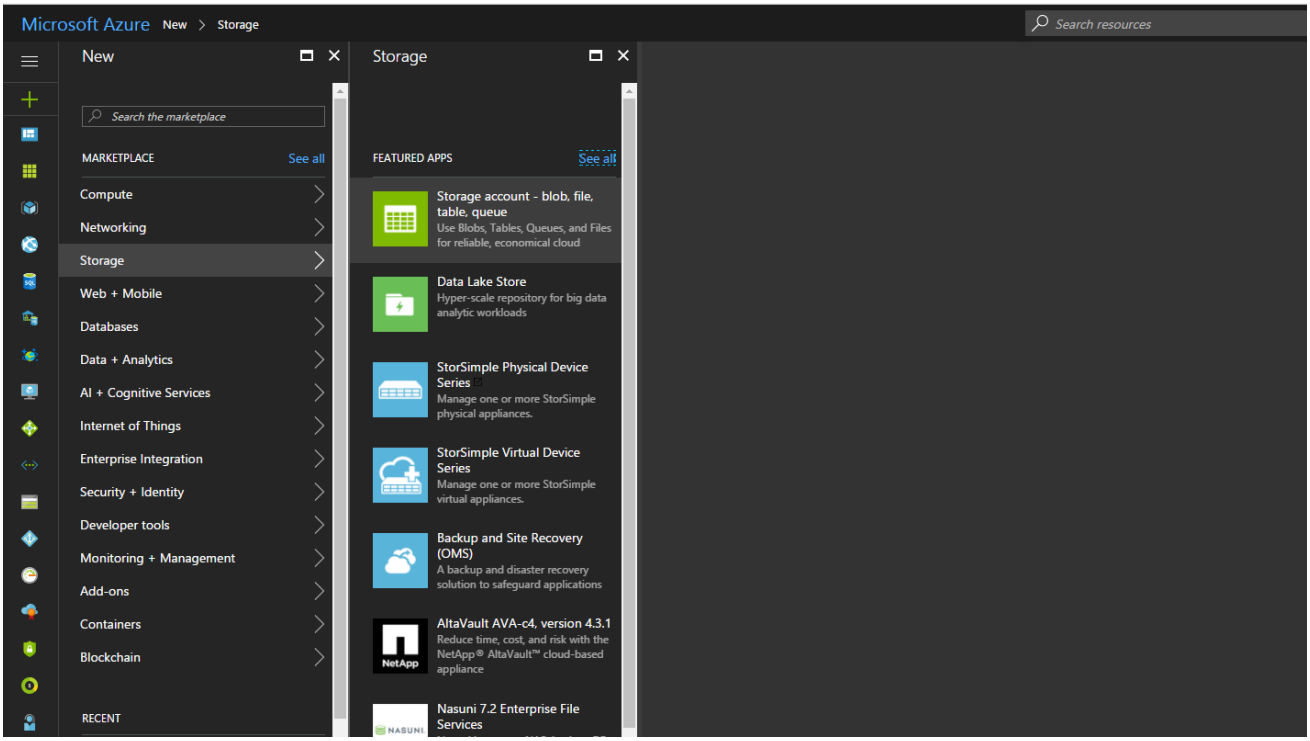
1) Login to your Microsoft Azure account's web portal using your credentials. Create a new account if you don't have one already.



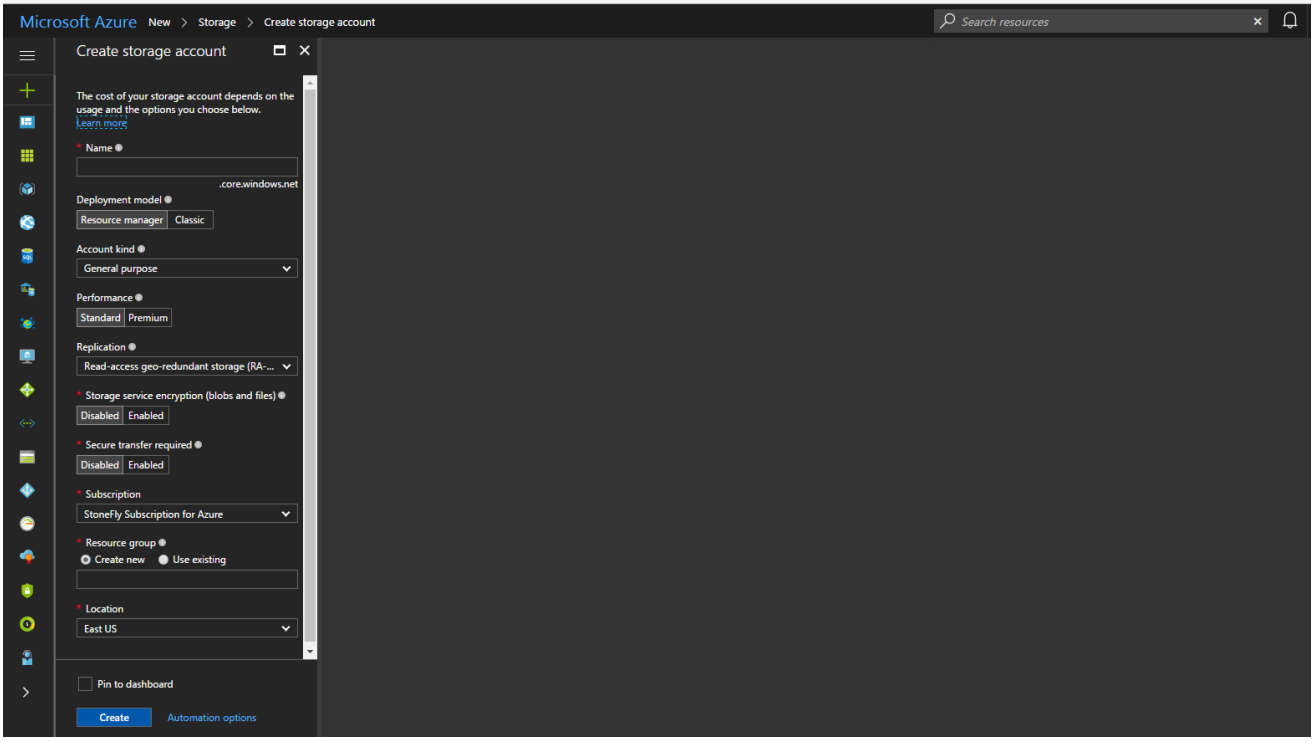
2) Click on the **+ New** tab at the very left of the screen.



3) Click on **Storage** and select **Storage account – blob, file, table, queue**.

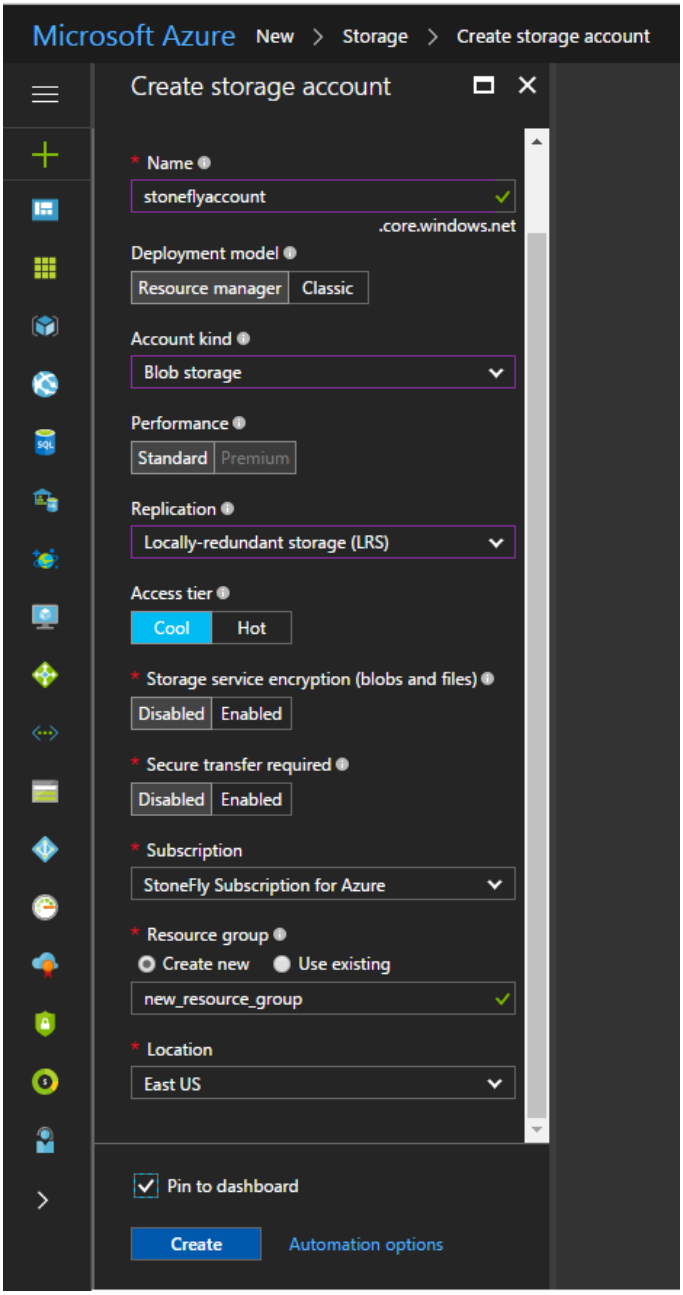


4) Fill in the required fields on the "Create storage account" page as shown in the images below.

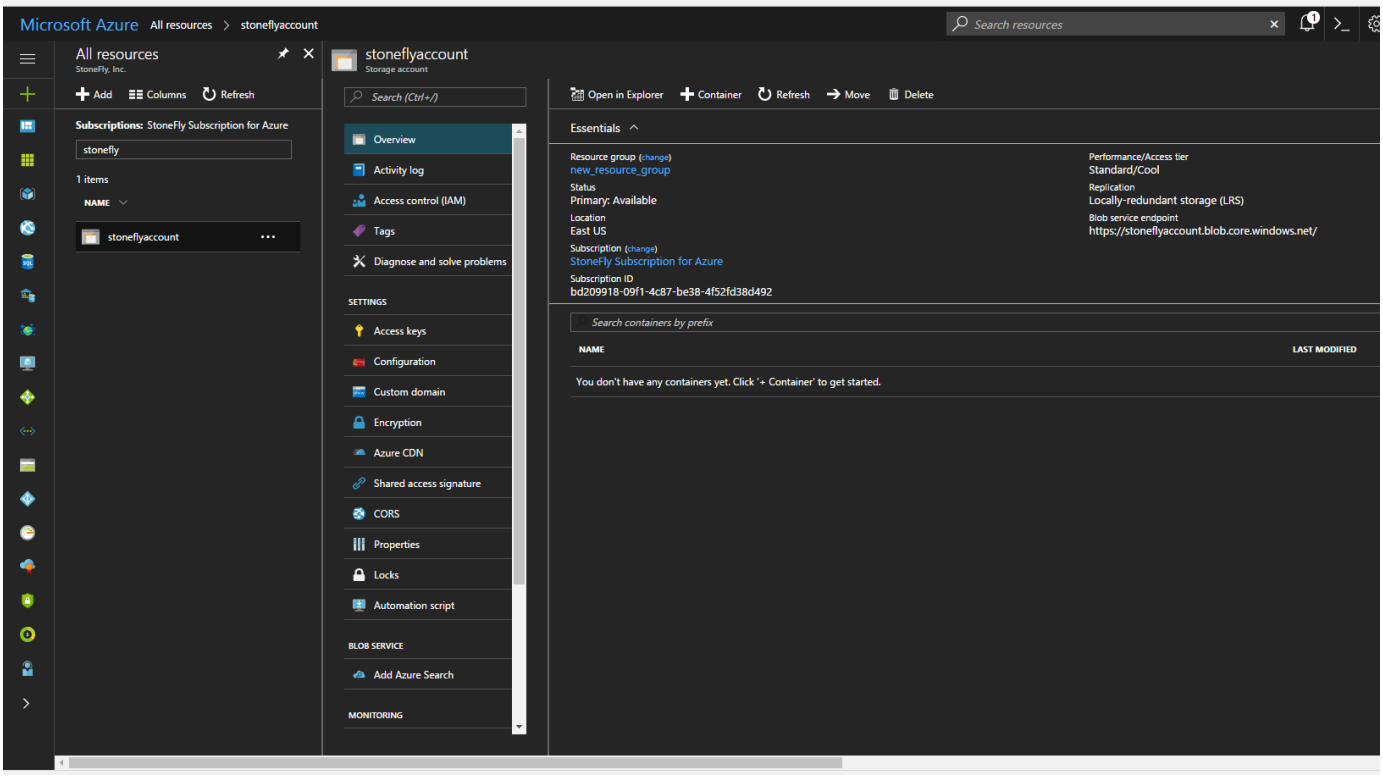


Name: Must be less than or equal to 12 characters. All characters must be in lower case. This will be your default DNS name.
Deployment Model: Select the "Resource manager" option.
Account kind: Select the "Blob storage" option.
Performance: Choose Standard performance if you are using the Azure storage for backup and archiving your data.
Replication: Choose the replication type as per your need. More information about the replication types is given here
Subscription: Enter your Azure subsciption.
Resource group: Create a new resource group for your storage account. Select "Create new" and enter the name of the resource group.
Location: This must be the nearest location provided from which the storage would be used.

Click on **create**.



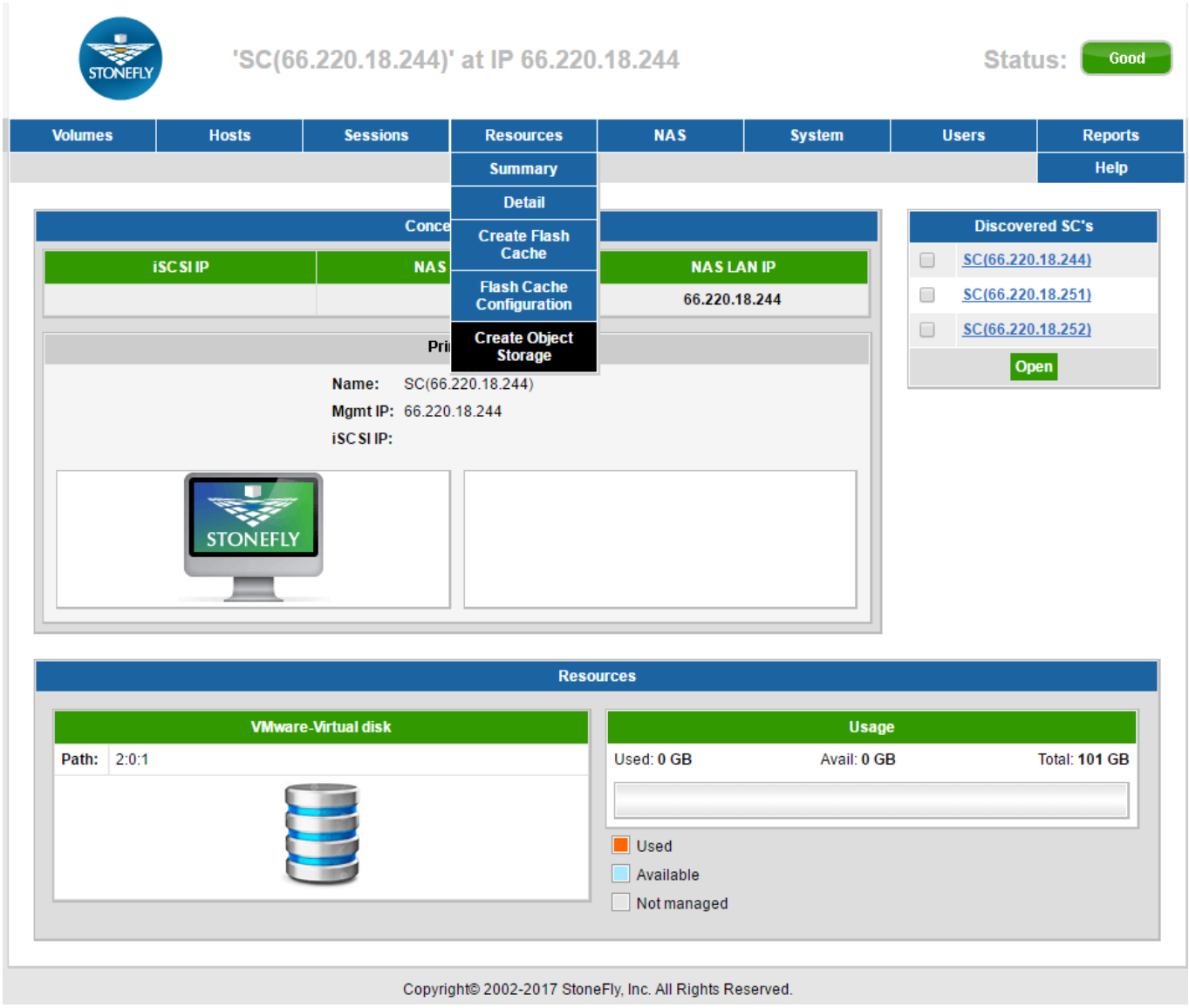
5) Click on **All Resources** and select your storage account. You can see your storage account's overview.



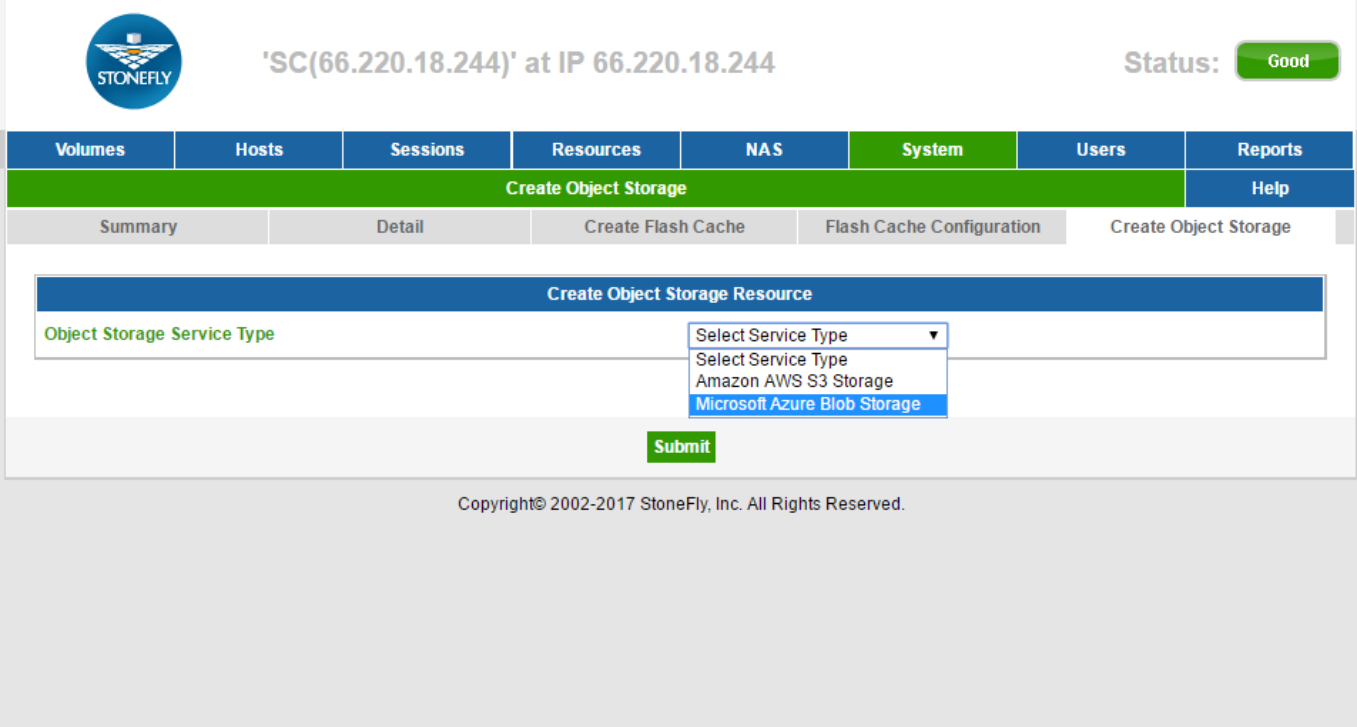
4. Attaching Azure Storage in SCVM

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

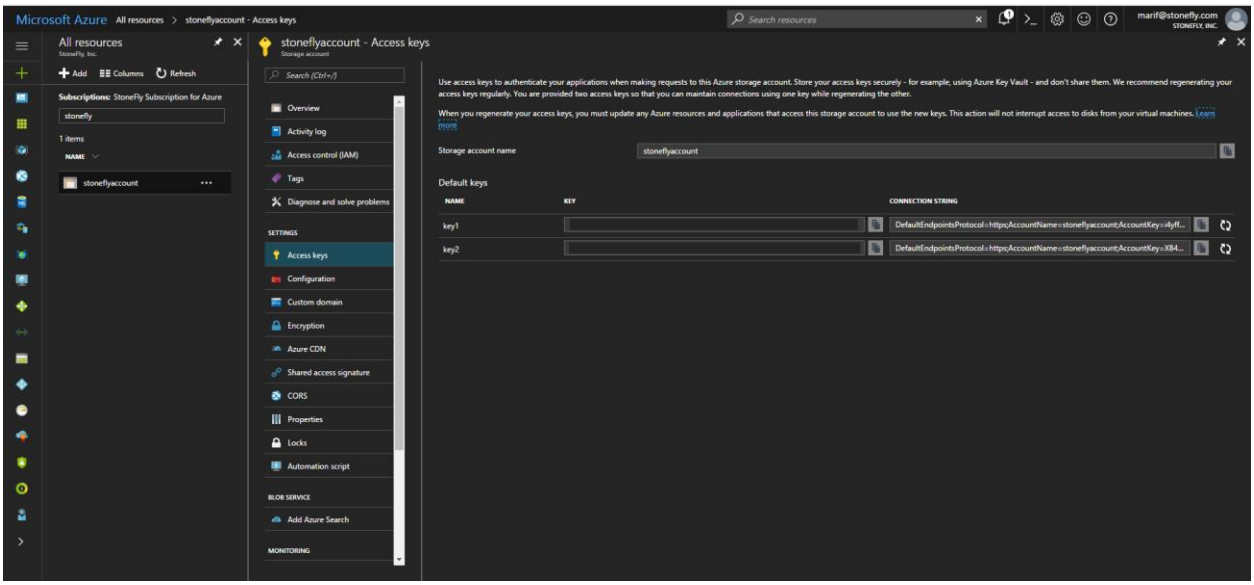
1) On your SCVM, goto **Cloud Object Storage** under the **Resources** tab.



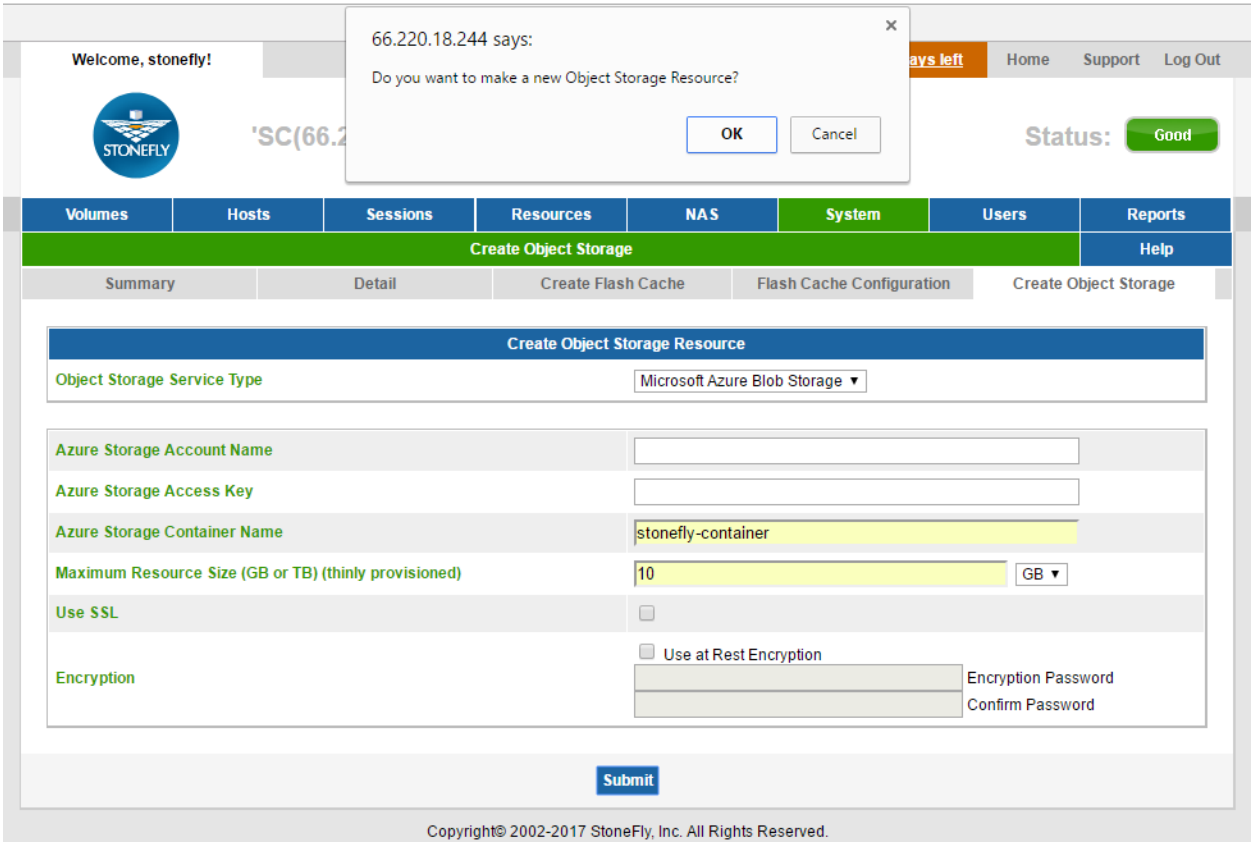
2) Select **Microsoft Azure blob storage** from the drop down menu.



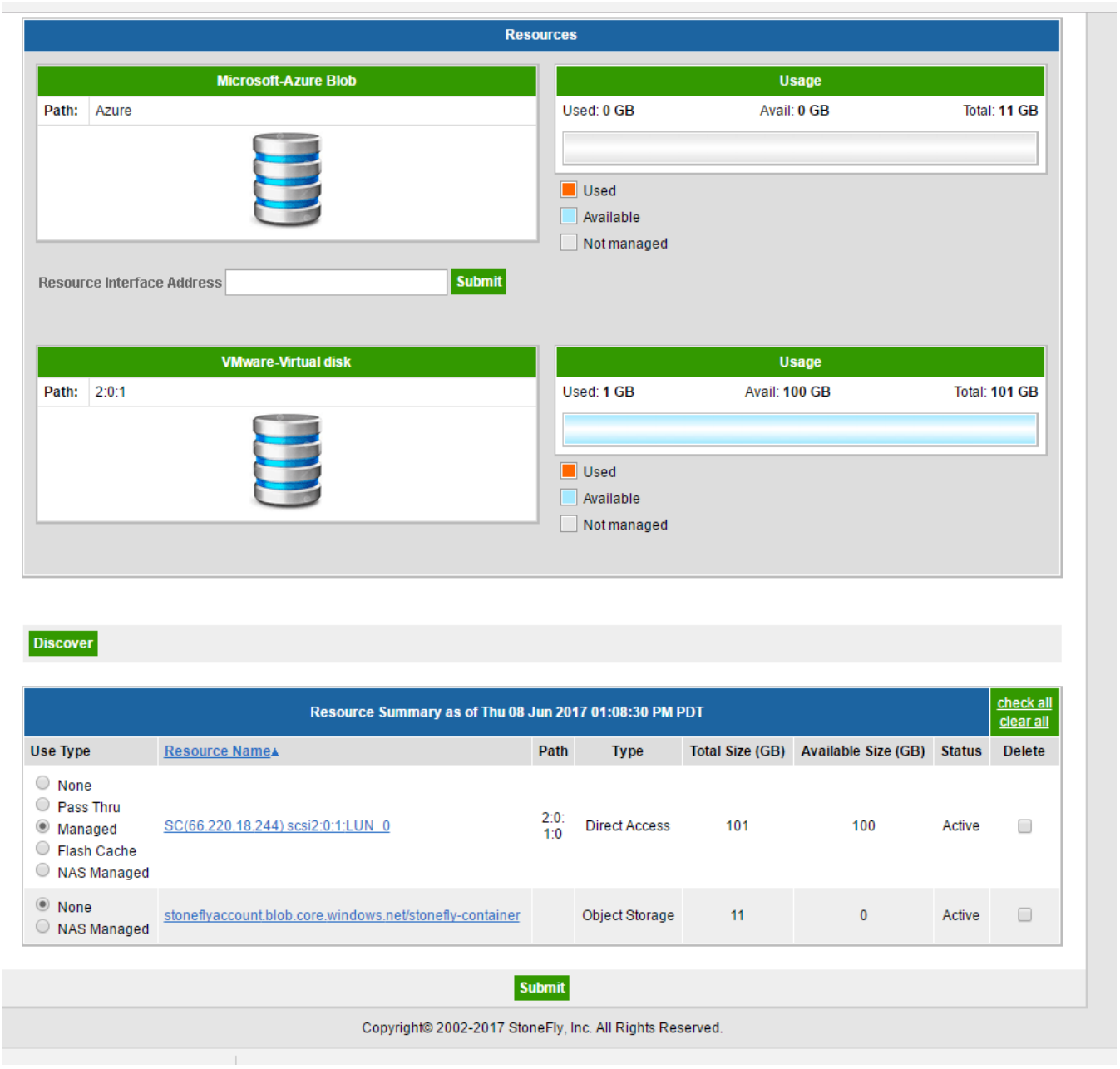
3) Click on the **Access keys** under your storage account settings. Copy your **storage account name** and one of the **keys** provided.



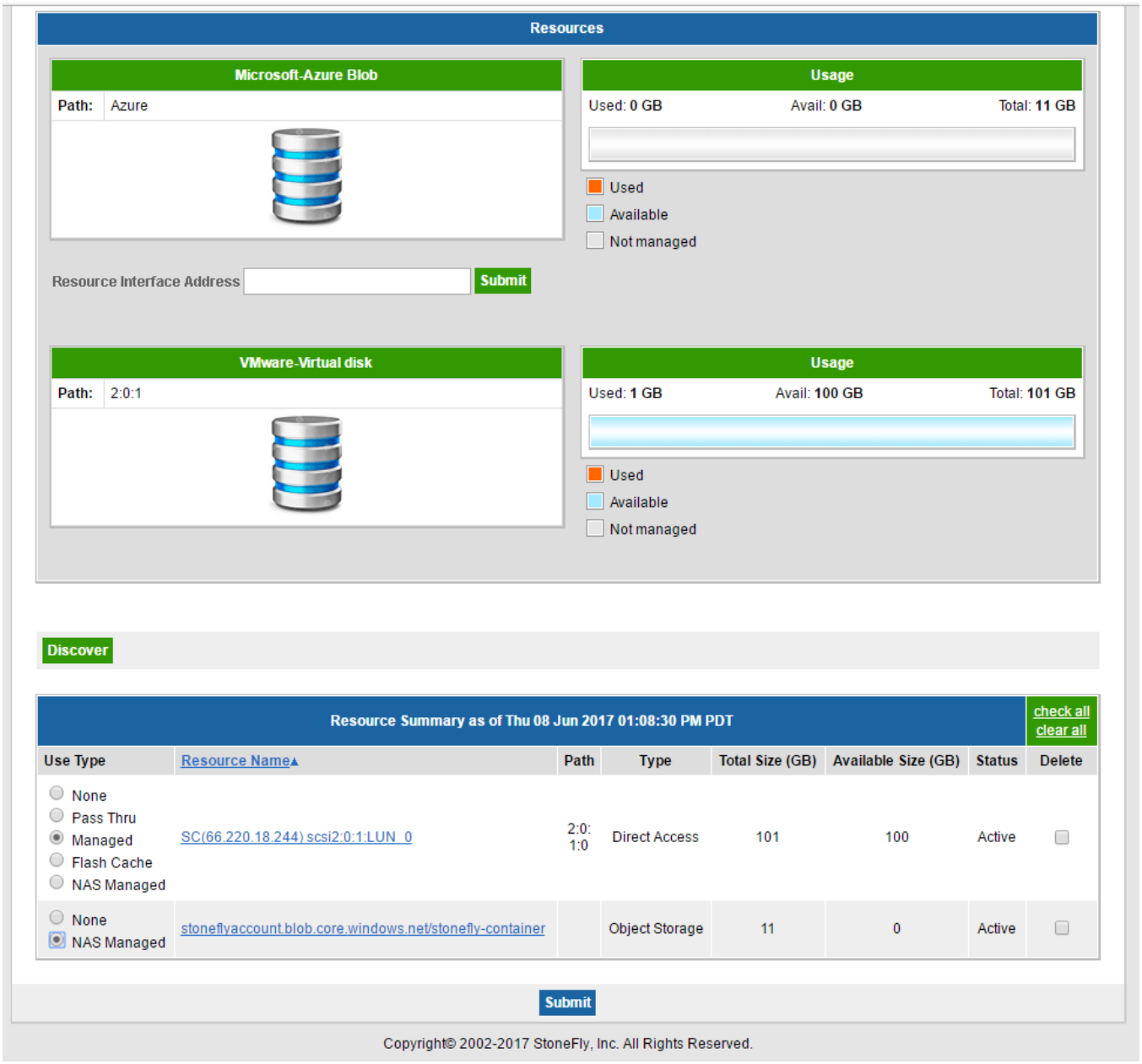
4) Enter your Azure **storage account name** and Azure storage access **key** into the SCVM "Create Object Storage Resource" page.
Enter any **Azure Storage Container Name** for reference.
Click on **submit**.



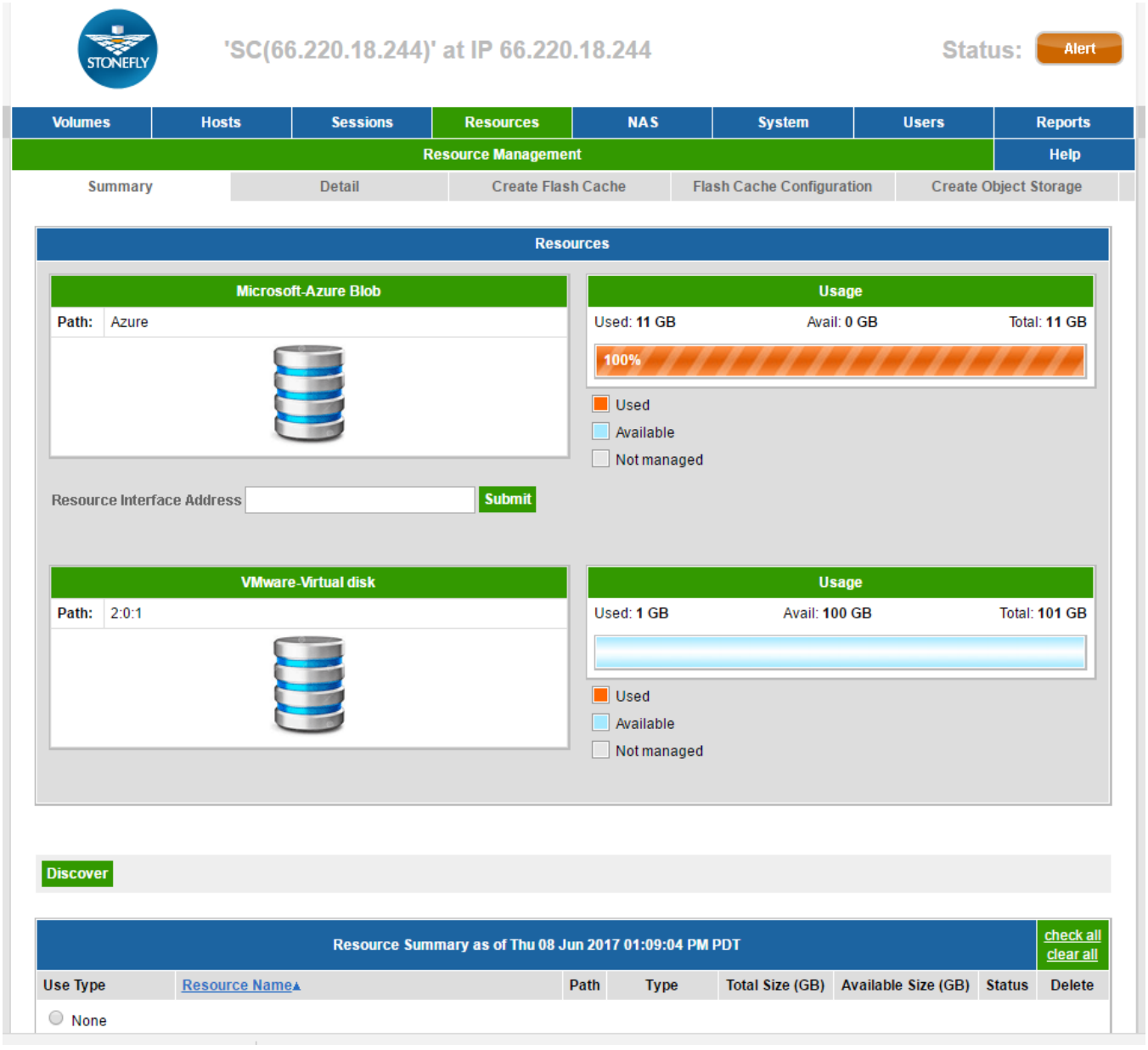
5) Object storge is now added to your SCVM resources.



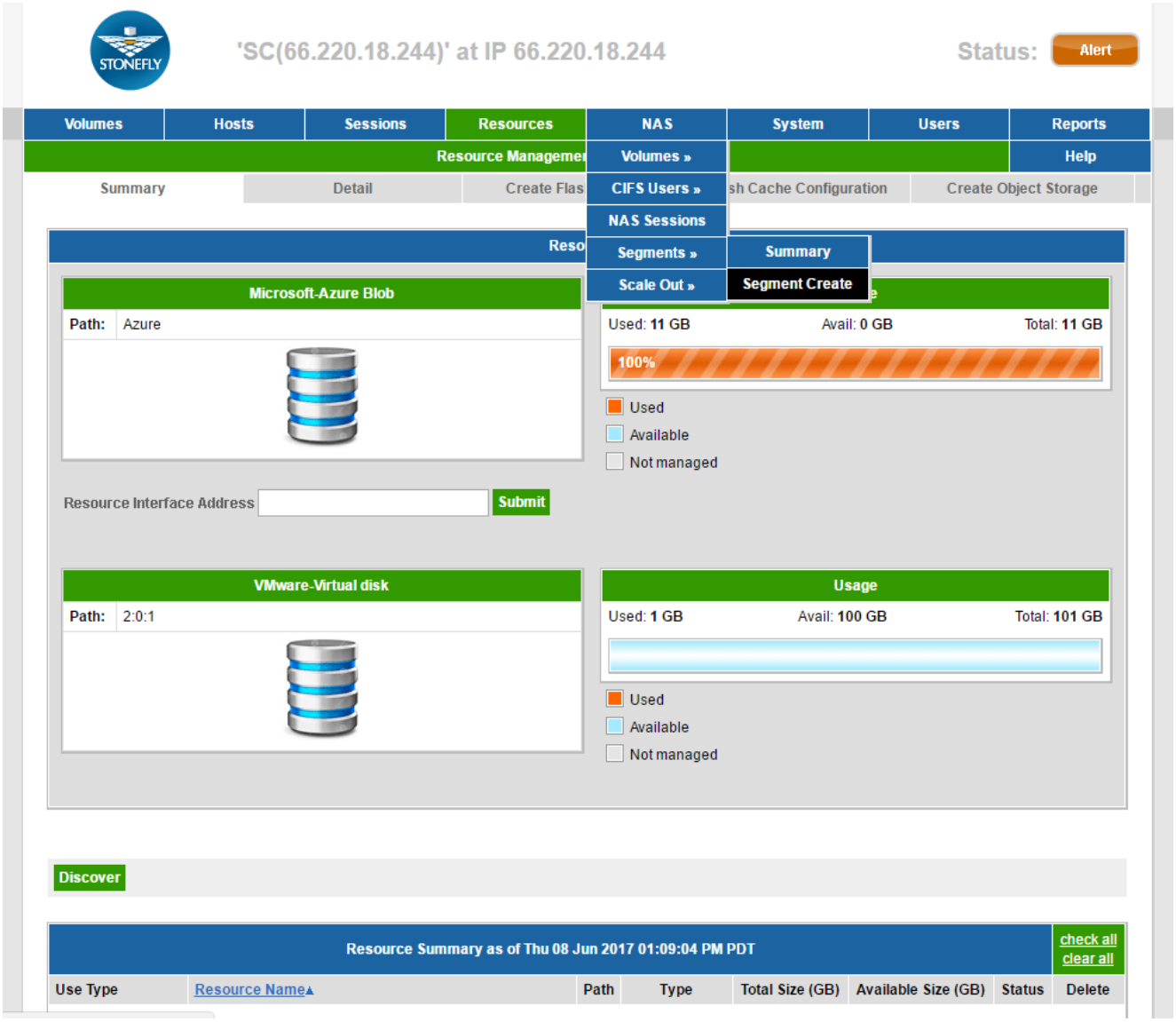
6) Click on the **NAS Managed** radio button and then click on **submit**.



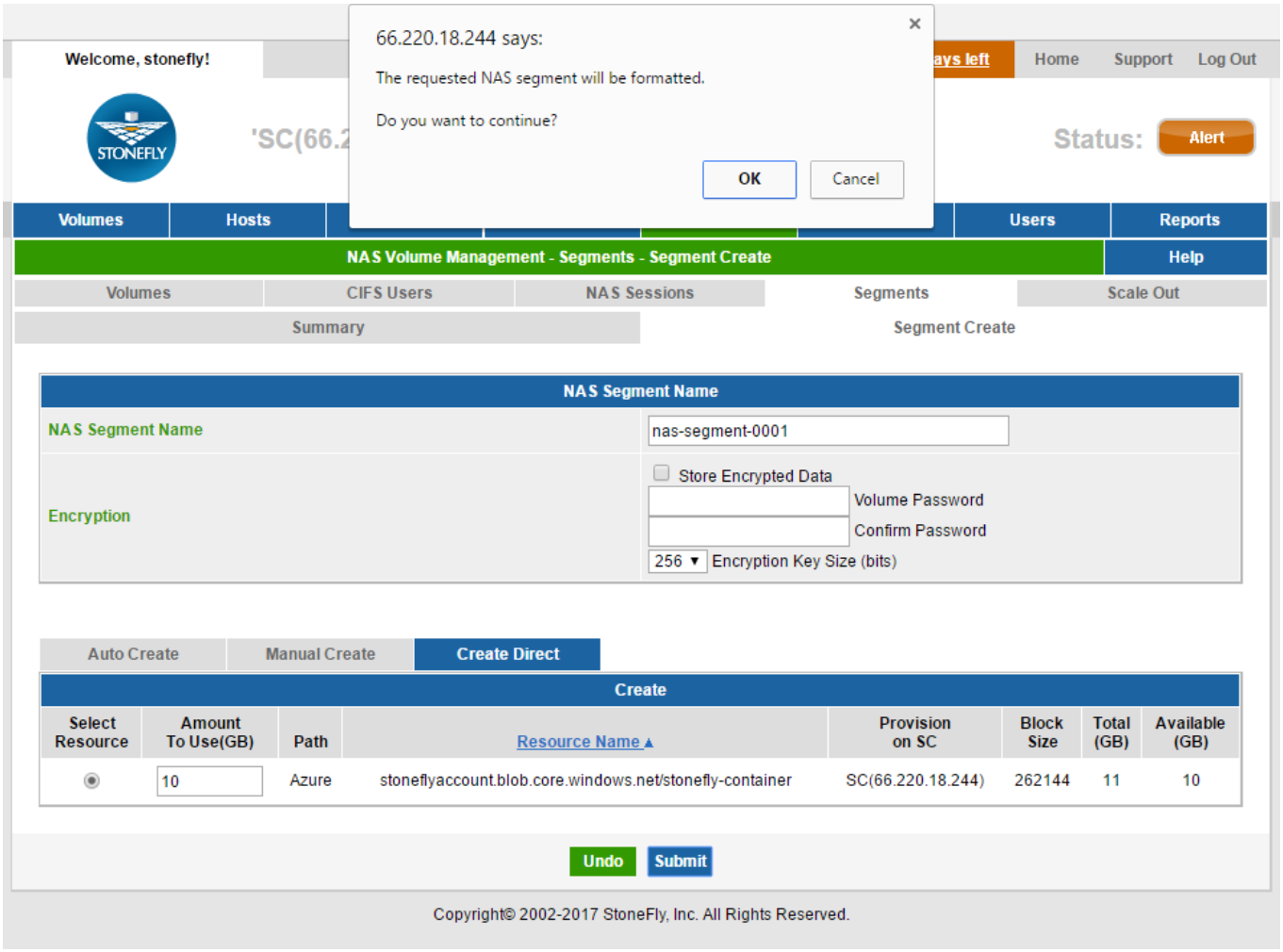
7) 100% usage of the volume for NAS is displayed.



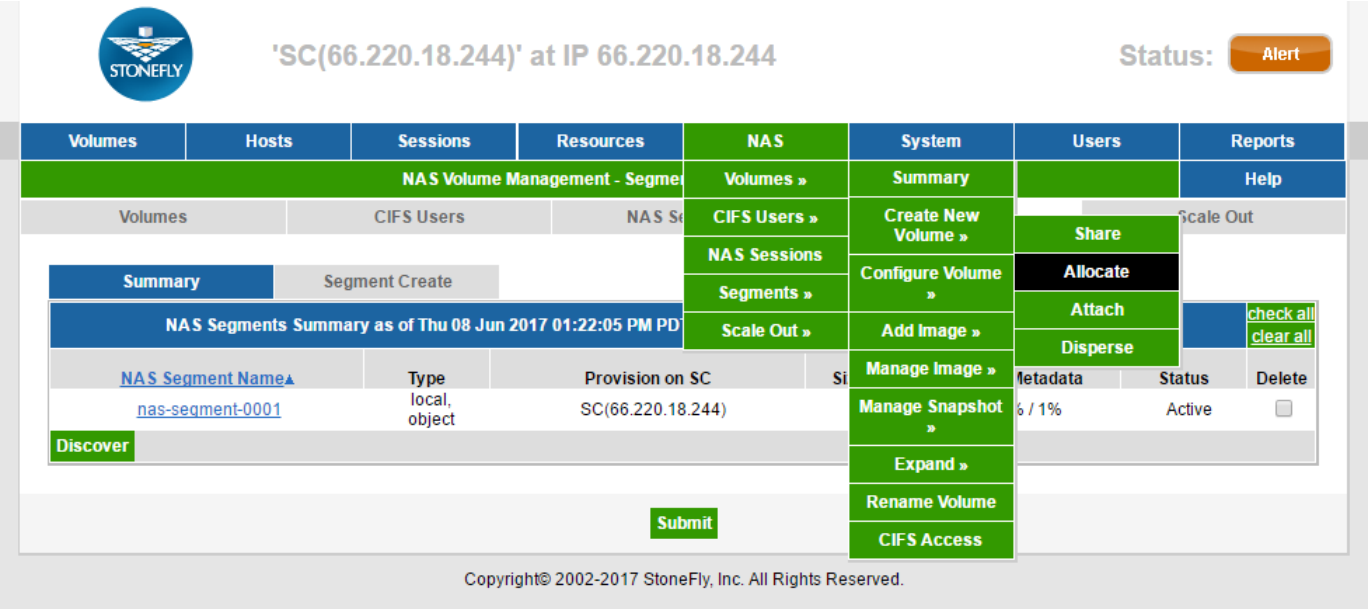
8) Go to Segments and click on **Segment Create** under the "NAS" tab.



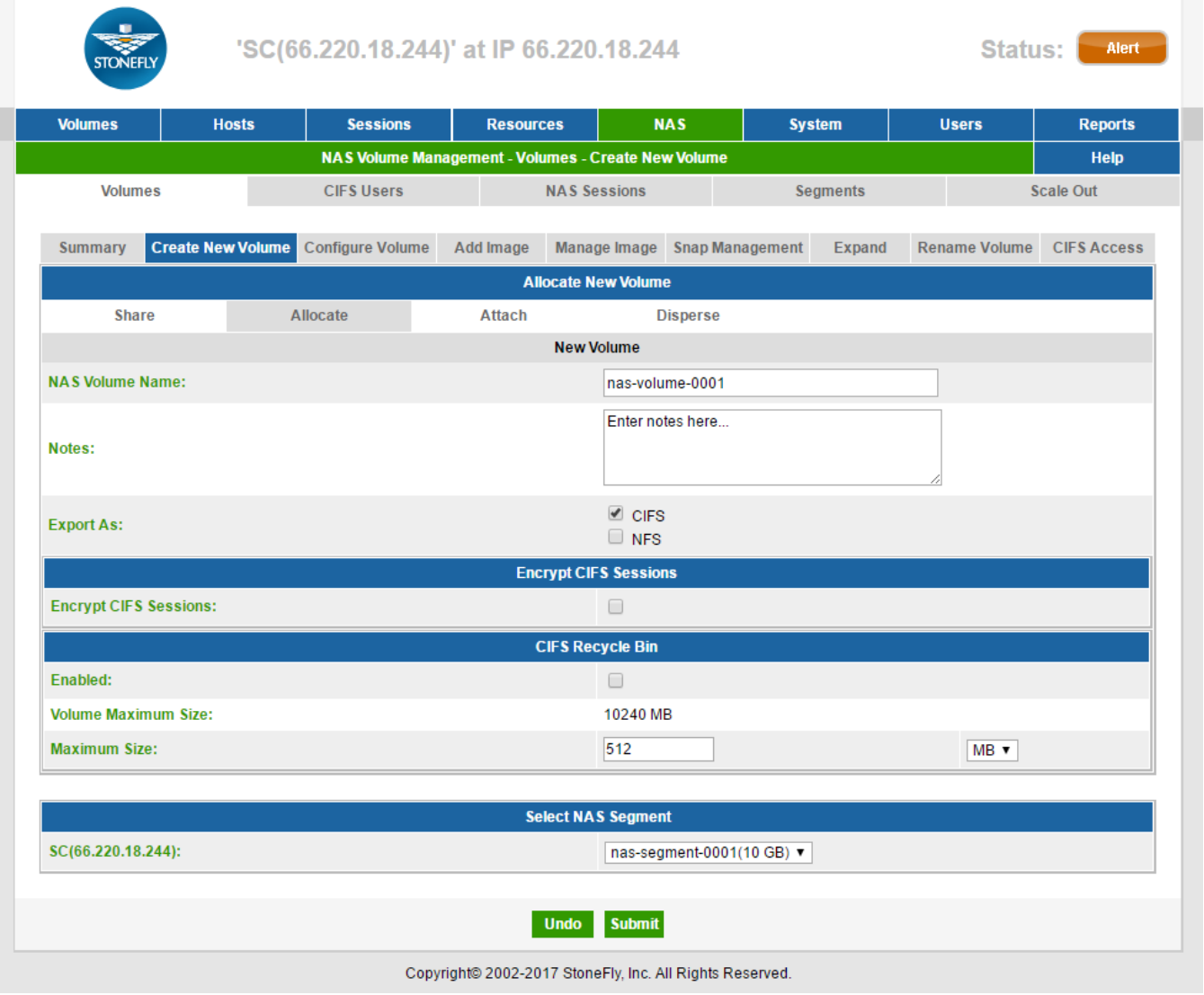
9) Enter any **NAS Segment name** and click **Create Direct** tab.
Check **Select Resource** radio button against the volume you just created.
Click **submit** to create a NAS segmet.



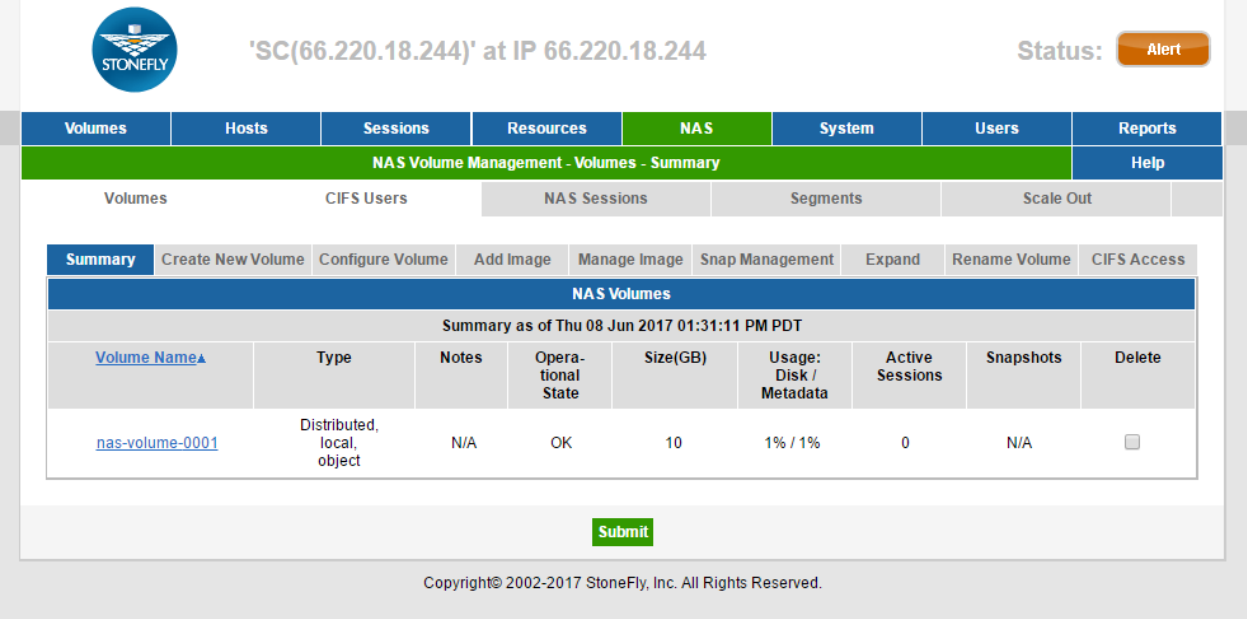
10) Goto NAS→Volumes→Create New Volume and click on **allocate**.



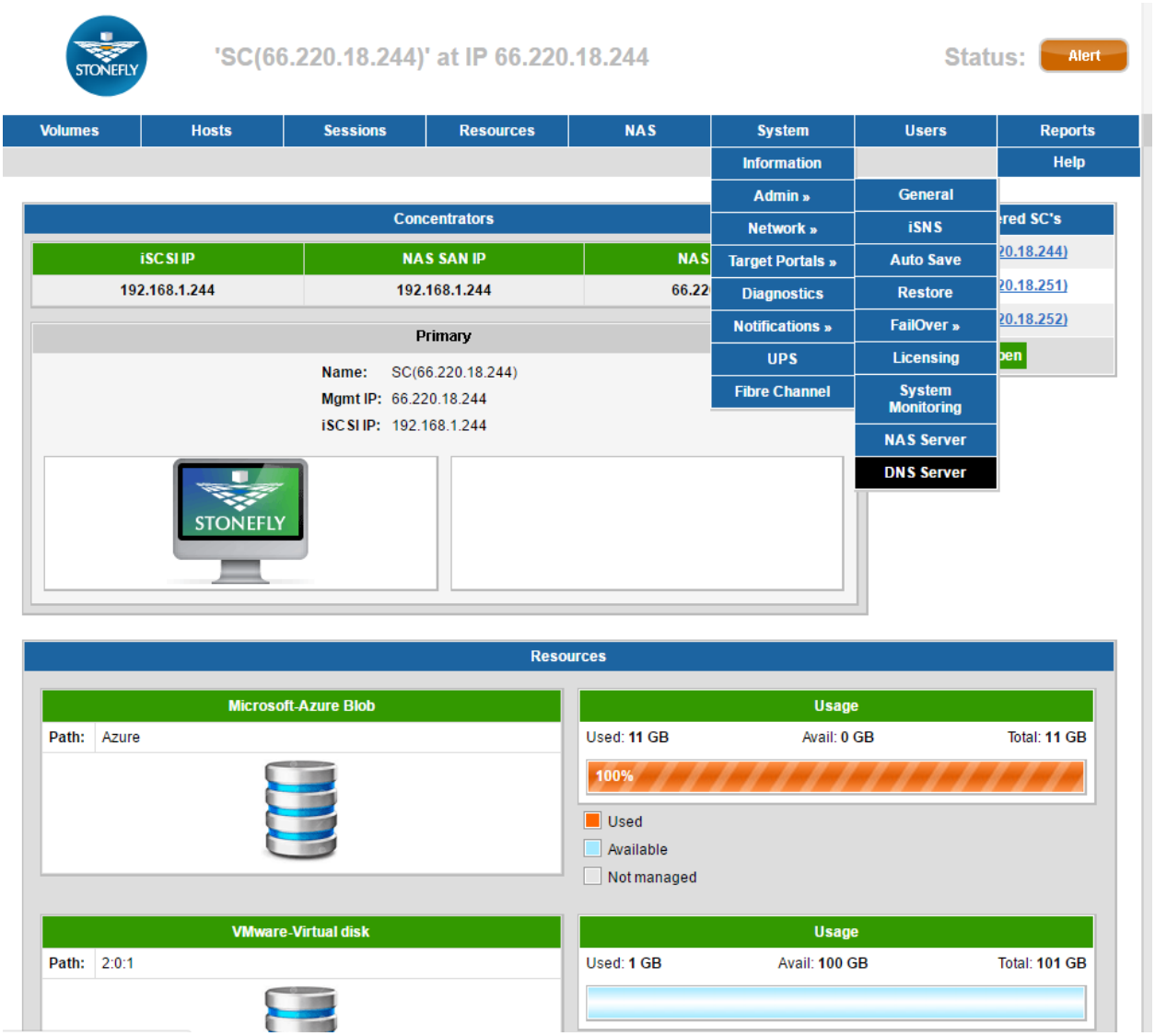
11) Enter any **NAS Volume Name** and check the **CIFS** check box for the volume to be used for windows.
Select NAS segment you just created from the SC drop down menu.
Click **submit** to create the volume.



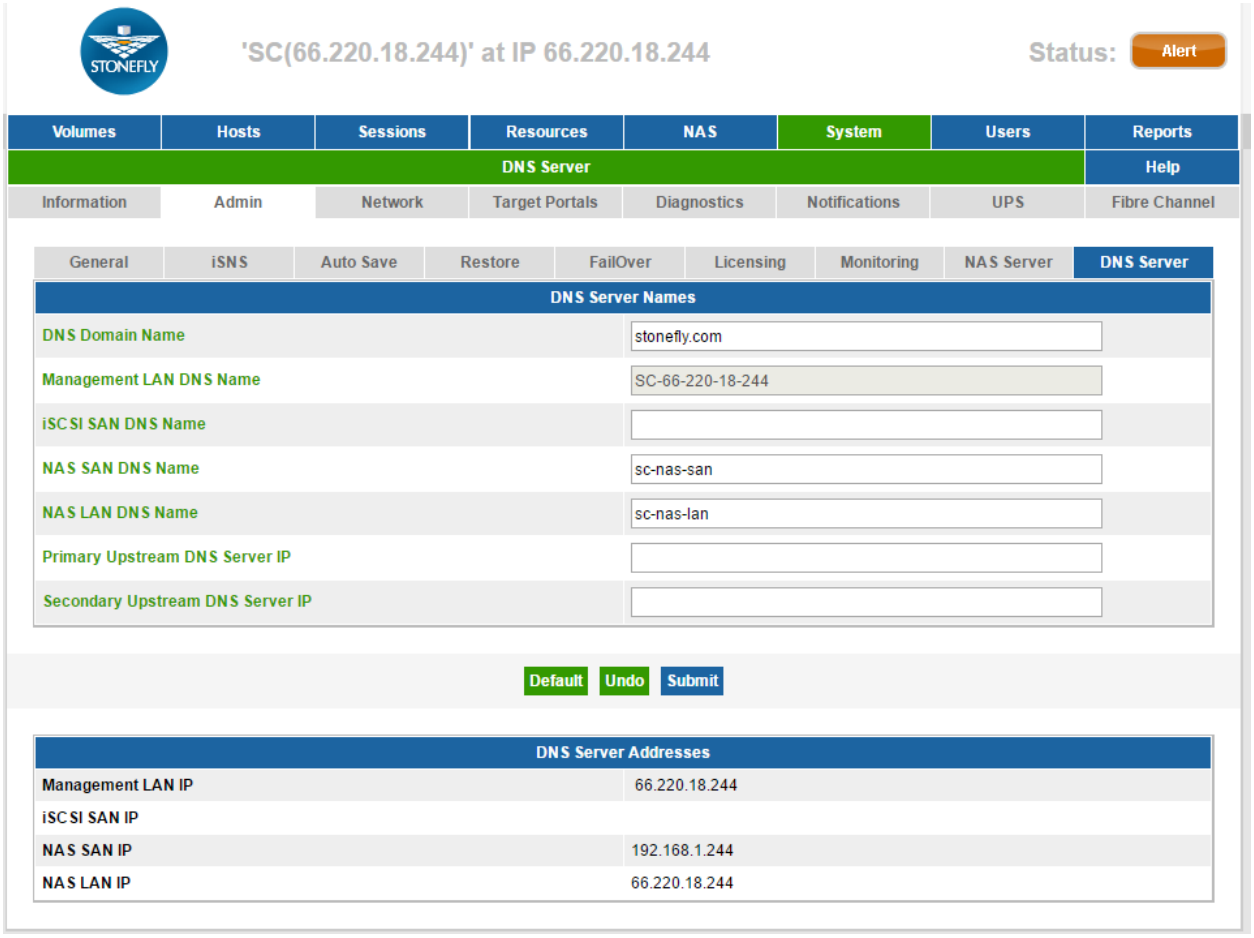
12) Click on the **Summary** tab to check the **Operational state** of the NAS volume. **Ok** should be displayed under the "operational state".



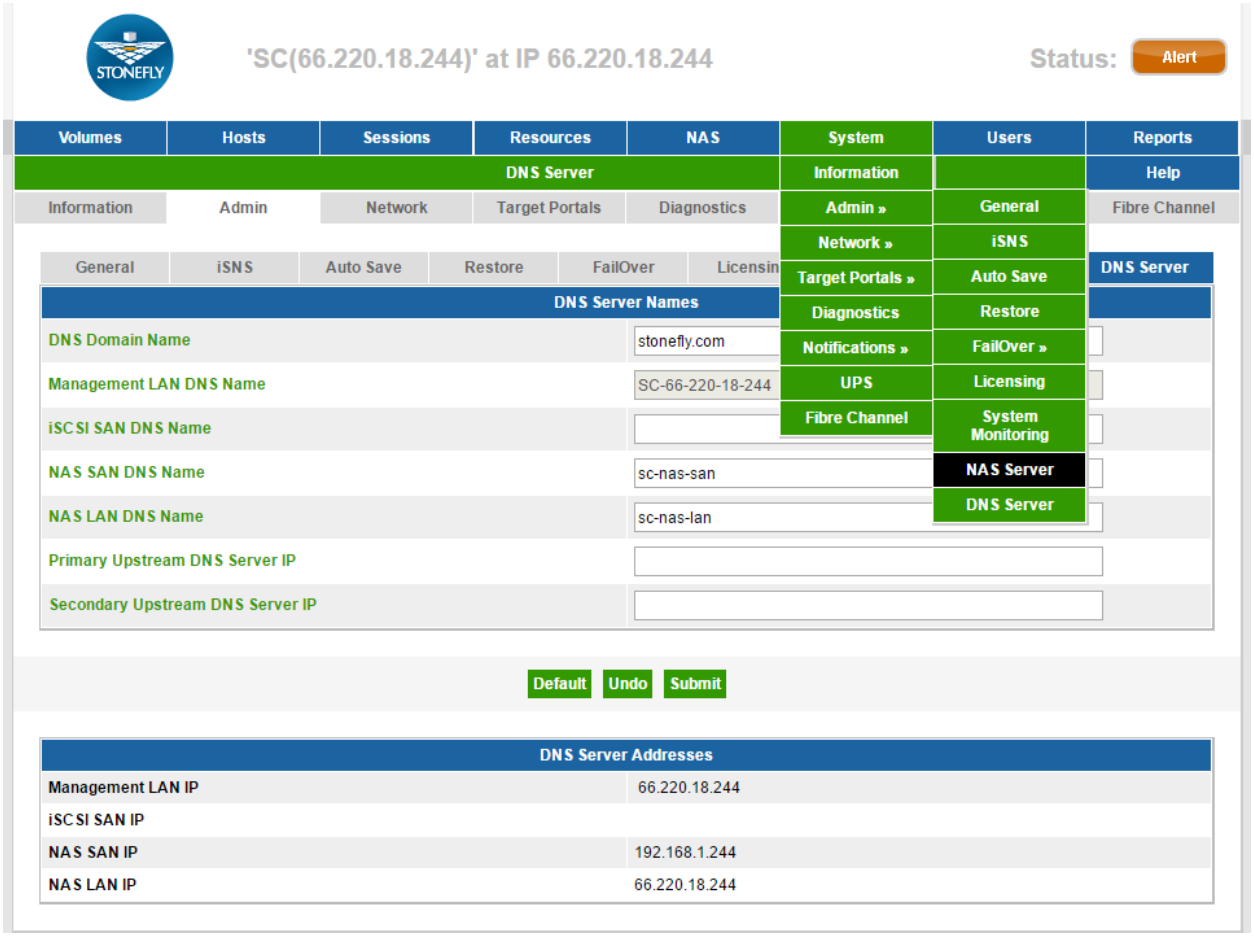
13) Goto System→Admin and click on the **DNS Server**.



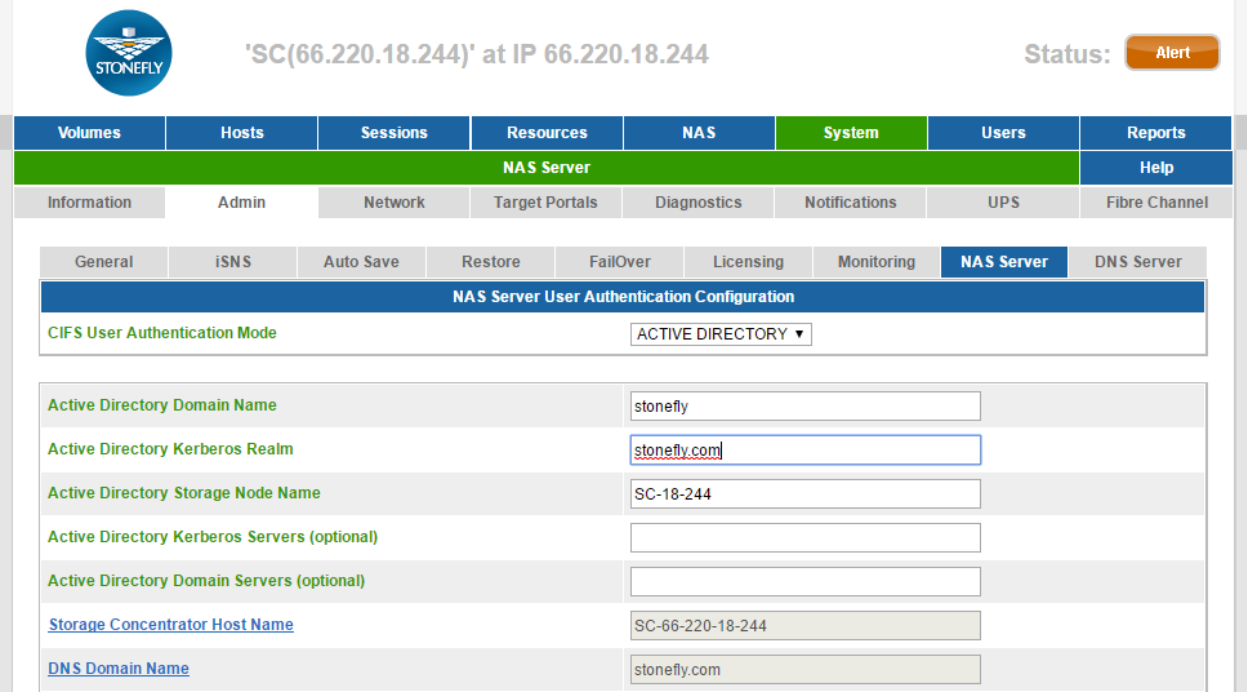
14) Enter the **DNS domain name** and then click on **submit** to save the changes.



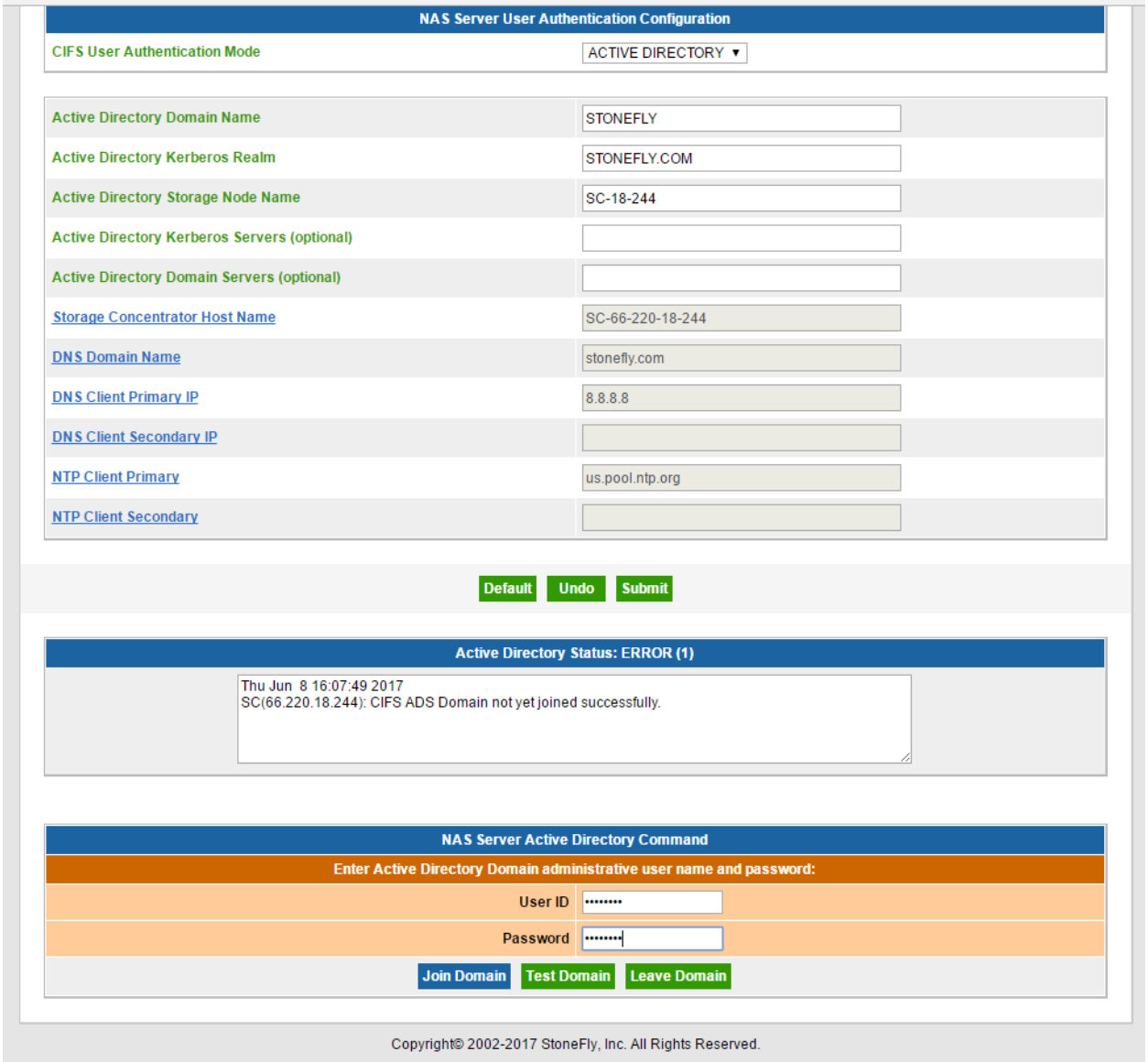
15) Goto System→Admin and click on **NAS Server**.



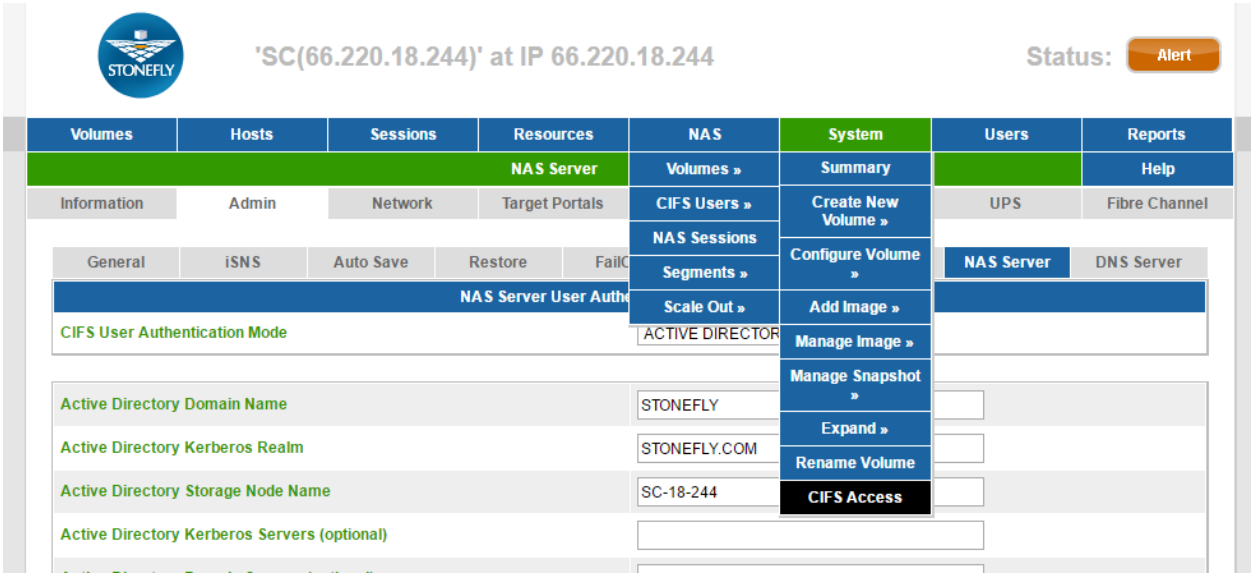
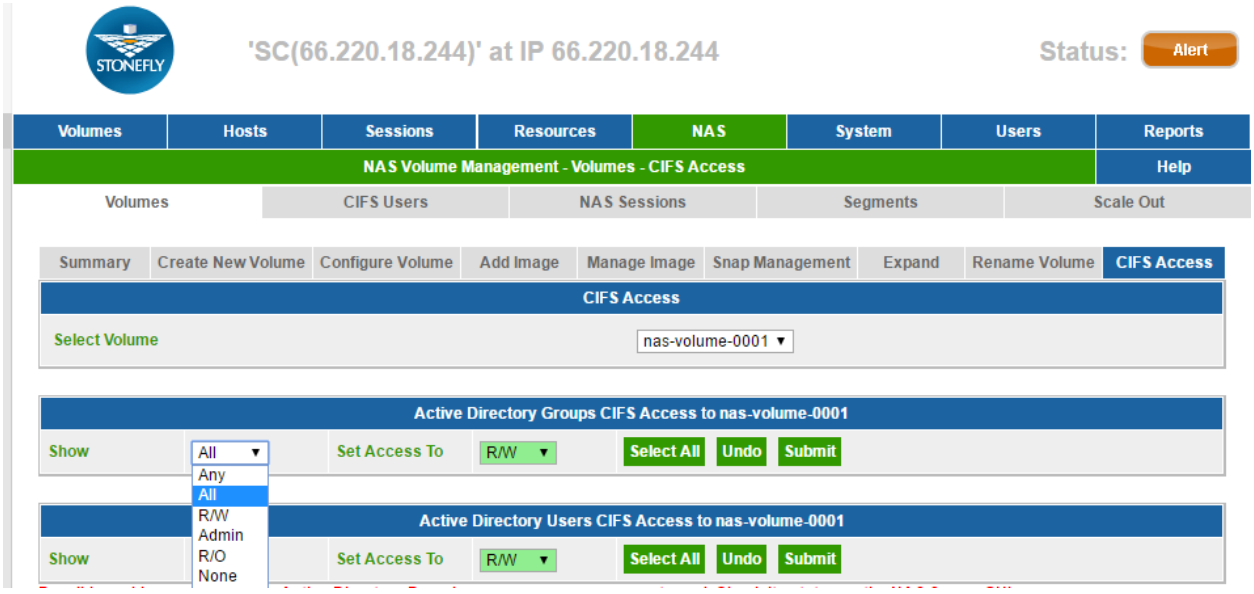
16) Enter the **Acitve Directory domain name** and **Acitve Directory Kerberos Realm** as shown in the image below.
Click on **submit** to save the changes.



17) You will be asked to enter the **Active Directory administrative User ID and Password**.
Enter the **User ID** and **Password**.
Click on **Join Domain**.



18) 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.



19) In CIFS Access tab, select the volume that you created earlier.
Under the "**Active Directory Group CIFS Acess 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**.