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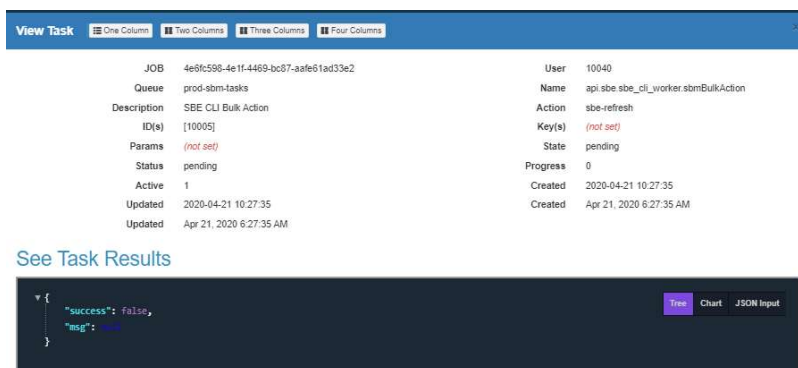
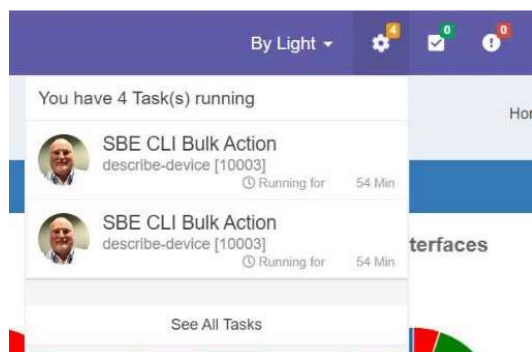
Key Tutorials

SBManager Software

Snowball Manager (SBManager) was created to allow users to manage the Snowball devices in a Graphical User Interface (GUI) format instead of a command line utility. This allows SBManager users to manage multiple Snowball devices simultaneously, run commands like **unlock** and **describe** in bulk across multiple snowballs with one click actions.

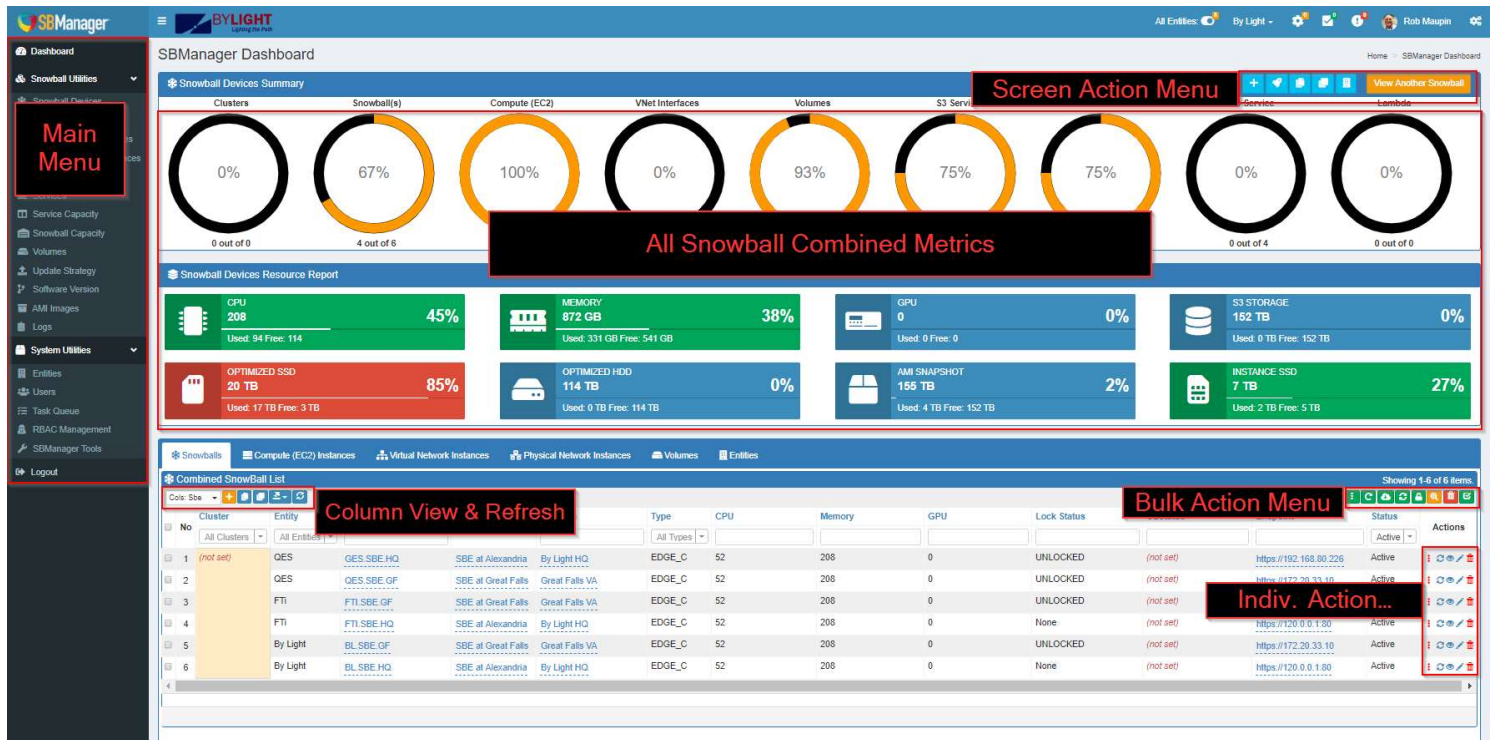
Despite these benefits, SBManager does not speed up the response of the Snowball devices or the speed of the network connection. If you are connecting your SBManager software over a VPN to remotely manage your Snowball devices, network latency will slow down performance. We have seen some commands like **describe device** or **unlock** take hours to completed using the command line on Snowball devices. With SBManager you will get your wait time back, normally each command typed must be done in sequence and our software combines multiple commands in a process that enables you can click once and move on to other work while the entire process completes.

SBManager will notify users of all actions and the status of tasks performed. Please be patient with the Snowball devices and SBManager, as some of these one-click actions are performing 10 to 20+ command line actions behind the scenes and we must wait for each one to complete before moving to the next queued action. The notification section at the top right corner of SBManager will notify you of tasks and actions that are processing. If you are using Chrome as your browser, I suggest installing *JSON Viewer Awesome* extension the running task results are more user friendly to read.



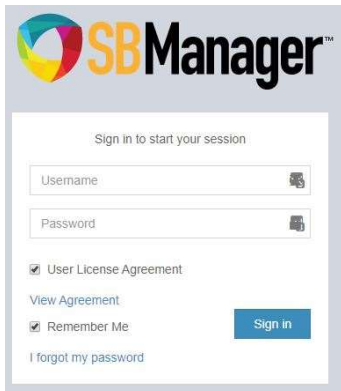
Getting Started

Your SBManager Software requires a few beginning steps: creating an Entity, creating at least one User, adding your Snowball Devices to SBManager, Discovering your Snowball Devices and Unlocking a Snowball Device. One final suggested step would be to enable your SBManager software to automatically get all your Snowball devices information including all the info needed to unlock all your devices.





Logging into SBManager for the first time:



1. Login to SBManager with the default account (this is case sensitive):
Username: admin
Password: W@lcome1234
2. You must Accept the License Agreement by checking the box

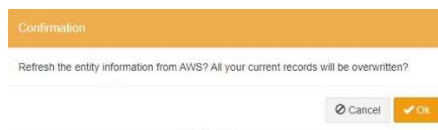
The image shows the SBManager login interface. At the top is the SBManager logo. Below it is a sign-in form with fields for Username and Password. There are checkboxes for 'User License Agreement' and 'Remember Me'. A 'View Agreement' link is present. A 'Sign in' button is at the bottom right. A link 'I forgot my password' is at the bottom left.

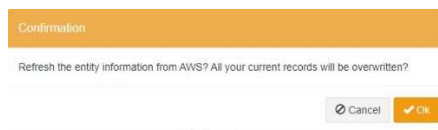
Creating an Entity:



3. In the Main Menu on the left-hand side click Entities under the System Utilities heading 
4. In the Screen Action Menu on the top left-hand side of the screen click the + sign to create a new entity. 
5. You must enter a Name for the entity. This could be a company name, project name, or organization like Dev/Ops or Development.

The image shows the 'Create New Entity' dialog box. It has tabs for 'One Columns', 'Two Columns', and 'Three Columns'. The 'Two Columns' tab is selected. The form contains fields for Name, Description, AWS Key ID, AWS Secret Key, Logo (with a 'Choose File' button), and Skin Color (with a 'Select Color' dropdown). There are 'Cancel' and 'Create' buttons at the bottom right.

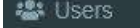

6. If you want to automate Snowball info import, do not forget to insert the AWS Key ID and the AWS Secret Key that you created on AWS. See detail information on this on page 4. You can edit the Entity with the information later also.
7. Finally choose a skin color and click create.
8. If you added the AWS Key information, then click the refresh button  or  to download all the information on your Snowball orders from AWS.

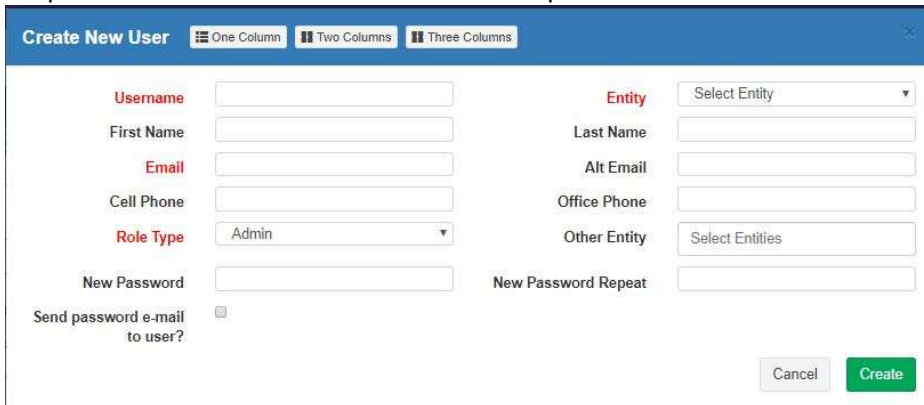
The image shows a confirmation dialog box with an orange header. The text inside asks: 'Refresh the entity information from AWS? All your current records will be overwritten?'. There are 'Cancel' and 'OK' buttons at the bottom right.

9. You must confirm the refresh by clicking OK  Depending on the speed of your connection and the amount of data you have in AWS for Snowball device orders, this could take some time. Please be patient. This action will download all your orders both current and past. It will allow you to manage your Snowball Devices without having to manually enter the information. Each time you order a new Snowball device you will want to refresh this entity page.

-  - Alternatively, to quick add an Entity you can go to the upper right hand corner & click  to create a new entity.

Creating User Accounts:

1. On the Main Menu click Users under the System Utilities heading. 
2. On the top left-hand side of the screen click the + sign to create a new entity. 
3. You must enter a Username for the entity, Email, Choose a Role Type (always have 1 Admin User first), Entity and password. You can click the box to have a password email sent to the user.



The 'Create New User' form is displayed with a blue header and three layout options: One Column, Two Columns, and Three Columns. The form contains the following fields: Username, First Name, Email, Cell Phone, Role Type (set to Admin), New Password, and a checkbox for 'Send password e-mail to user?'. On the right side, there are fields for Entity (a dropdown menu), Last Name, Alt Email, Office Phone, and Other Entity (a dropdown menu). At the bottom right, there are 'Cancel' and 'Create' buttons.

4. Please now delete the default account you used at the start of the software called admin

Adding Snowball Devices to the SBManager software:

To get started managing Snowball devices you must first input the information on each device you want to manage. There are two ways to add Snowball Devices to your SBManager software— *Automated* and *Manual*:

Automated Add Snowball Devices:

SBManager may be setup to automatically refresh Snowball information from AWS. You can create multiple entities to manage multiple AWS key pairs for Snowball Device users. This is very handy when you have multiple AWS account IDs that order Snowball devices. The following steps illustrate this process:

Step 1: Create a Key Pair on AWS to automate downloading Snowball management/unlock information:

- **Hint:** This is not required if you want to manually upload your Snowball devices data and files.

- Information on Access Keys:


<https://docs.aws.amazon.com/general/latest/gr/aws-sec-cred-types.html#key-pairs>

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html



- How to create and manage access keys:

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html

If you have any questions on how to create or manage access keys please contact **AWS support**. These are not functions or process flows controlled or created by SBManager.

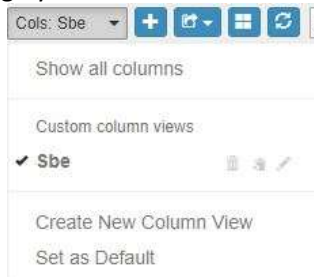
Step 2: Create your Entity profile and insert your AWS Key info (**Hint:** You can skip this step if you have already added an Entity to manage your devices on page 3. You can add this information to an existing Entity by going to the Entity page and clicking the edit button  on the right side of the Entity line.)

Step 3:

- Now click Dashboard  on the Main Menu and hit refresh  if all your Snowball information does not appear. Selecting this button in the Snowball screen area will refresh your Snowball page. Please be patient. This will download all your Snowball information from AWS again. This could take time depending on your connection speed.
- On the Dashboard or in the Manage Snowball page the status dropdown box in the upper right corner will allow you to sort your view of ShowAll, Deleted or Active Snowball devices. people choose only the Active setting.
- You can also change your view to a Tile view in the upper left-hand corner or change your





right-hand
Hint: Most
columns





viewed.



Manually Adding A Snowball Device:



- You must first create an Entity as shown above in Step 2 the Automated Add Snowball section.
- On Dashboard in the upper right hand corner click the Add Snowball button  or in the Snowballs Tab click  and enter all information from the AWS Snowball device order page at AWS in the AWS console. Make sure to first download the Manifest File from AWS console. This will be on the Job Dashboard and under View Job Details button on AWS.

- After hitting create, you will then hit refresh if all your Snowball information does not appear.  This button will refresh your Snowball list or  this button will reset your column filters and refresh the Tab.

Additional Snowball Actions






The screenshot shows the 'Snowballs' tab in the AWS Management Console. The interface includes a top navigation bar with tabs for 'Snowballs', 'Compute (EC2) List', 'Elastic IP List', 'Physical Interface List', 'Storage Volumes', and 'Entities'. Below the navigation bar is a 'Combined SnowBall List' table. The table has columns for Cluster, Entity, Name, Description, Location, Type, CPU, Memory, GPU, Lock Status, CLStatus, and Status. The table is filtered to show 10 items. Red callouts highlight various actions: 'Get All Snowball Info.' points to the 'Discover Snowballs' button; 'Refresh EC2 Info from Snowball' points to the 'Refresh' button; 'Tab Screen Navigation' points to the top navigation bar; 'Use dropdowns to filter columns' points to the 'All Clusters' and 'All Entities' dropdowns; 'Change Column Display Info.' points to the 'Columns' dropdown; 'Refresh Screen' points to the 'Refresh' button; 'Refresh Screen and Clear Filters' points to the 'Refresh' button; '3 Dot Multi-Action...' points to the three-dot menu icon; 'View Snowball Detail Info' points to the 'View' icon; 'Edit Snowball Info' points to the 'Edit' icon; and 'Unlock' points to the 'Unlock' icon.

Multi-Action Menu Details:


The 3 dot action menus have most of the primary actions both bulk  and individual .

Unlock Snowball Devices:

When you have Snowball devices to manage, you will need to issue commands to unlock your Snowball devices. There are a few key items that you need to recognize to unlock a Snowball device. On the Snowball Devices page, we are going to follow two different paths to Unlock:


- Path 1** – I see my Snowball device listed in the page and it shows all expected data (name, Job State, CPU, Ip(s), etc) and the action menu on the right has an unlock icon.  If this is the case, then you can either click unlock on the individual menu icon  or bulk select Snowball Devices and click the Unlock Icon  in the upper right menu.
- Path 2** – You do not see all your Snowball devices or the detail data (e.g. IP(s) doesn't show up in the column data). In this case, first choose all your Snowball devices ; then use the Discover icon  in the upper right menu

The 'Discover Snowball(s)' dialog box is shown. It has a title bar with 'Discover Snowball(s)' and three tabs: 'One Column', 'Two Columns', and 'Three Columns'. The 'Two Columns' tab is selected. The dialog contains a list of 20 network addresses, each with a corresponding IP4 Address (CDIR) input field. The addresses are numbered 1 through 20. At the bottom of the dialog are 'Cancel' and 'Discover' buttons.

- This will look through your network to find your Snowball devices and update its information. After they are discovered, you can unlock them by clicking the Unlock Icon  on each Snowball device


<input checked="" type="checkbox"/>	No	Entity
<input type="checkbox"/>	1	Phacil
		All Entity

listing or for bulk unlocks select each Snowball on the left menu and click the green

Unlock Icon  in the upper-right Menu. Always refresh the page and monitor the tasks completion.

Key Functions:

- Create Compute (EC2) Instances on your Snowball device:**

Click the Compute (EC2) Instances on the Main Menu or Compute (EC2) list Tab on the main screen; then click the add EC2 Icon  and then input the required fields

Launch New EC2 Instances

One Column

Two Columns

Three Columns

Snowball List

Select Snowball

Instance Type

Select Type

Count

1


AMI Image ID

Select Image


Cancel

Launch



- Alternatively, on the Dashboard in the upper right hand corner you can click  to add an EC2 instance

- Create Elastic IPs on your Snowball device:**

Click the Elastic IPs on the Main Menu or Elastic IP List Tab; then click the add VNI Icon  and then input the required fields.

Create New Elastic IP(s)

One Column

Two Columns

Three Columns

Four Columns

Snowball List

Select Snowball

Physical Connector

Select Connector

Starting IP

IP Address

IP Assignment Method

Select Assignment

Max Count

1

Netmask

255.255.255.0

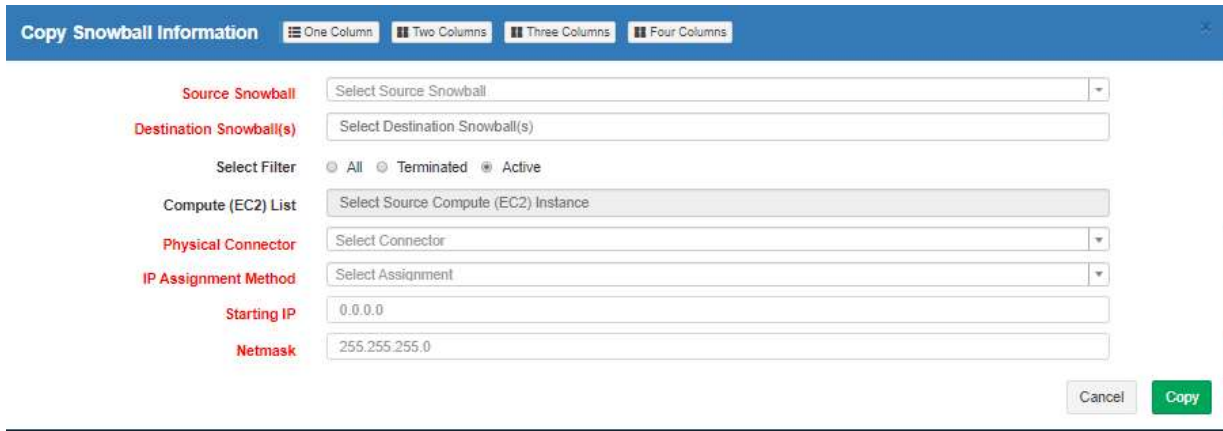
Cancel

Launch

- **Copy a Snowball device:**

Copying a Snowball allows you to directly copy one Snowballs configurations to another Snowball device.


In the upper right corner of the Dashboard click the Copy Snowball Icon  and then input the required fields.

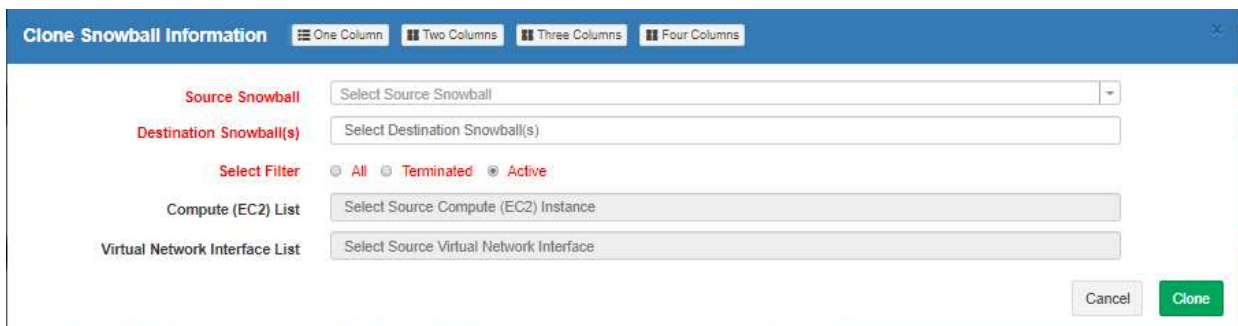


The 'Copy Snowball Information' dialog box features a blue header with the title and a close button. Below the header are four tabs: 'One Column', 'Two Columns', 'Three Columns', and 'Four Columns'. The main area contains several form fields: 'Source Snowball' (a dropdown menu), 'Destination Snowball(s)' (a text input), 'Select Filter' (radio buttons for 'All', 'Terminated', and 'Active', with 'Active' selected), 'Compute (EC2) List' (a dropdown menu), 'Physical Connector' (a dropdown menu), 'IP Assignment Method' (a dropdown menu), 'Starting IP' (a text input with '0.0.0.0'), and 'Netmask' (a text input with '255.255.255.0'). At the bottom right are 'Cancel' and 'Copy' buttons.

- **Clone a Snowball device:**

Cloning a Snowball device allows you to clone all your configurations onto another Snowball device with one click. This saves a huge amount of configuration time and effort.

In the upper right corner of the Dashboard click the Clone Snowball Icon  and then input the required fields.




The 'Clone Snowball Information' dialog box has a similar layout to the 'Copy' dialog. It includes a blue header with a title and a close button, and four tabs: 'One Column', 'Two Columns', 'Three Columns', and 'Four Columns'. The form fields are: 'Source Snowball' (dropdown), 'Destination Snowball(s)' (text input), 'Select Filter' (radio buttons for 'All', 'Terminated', and 'Active', with 'Active' selected), 'Compute (EC2) List' (dropdown), and 'Virtual Network Interface List' (dropdown). 'Cancel' and 'Clone' buttons are located at the bottom right.

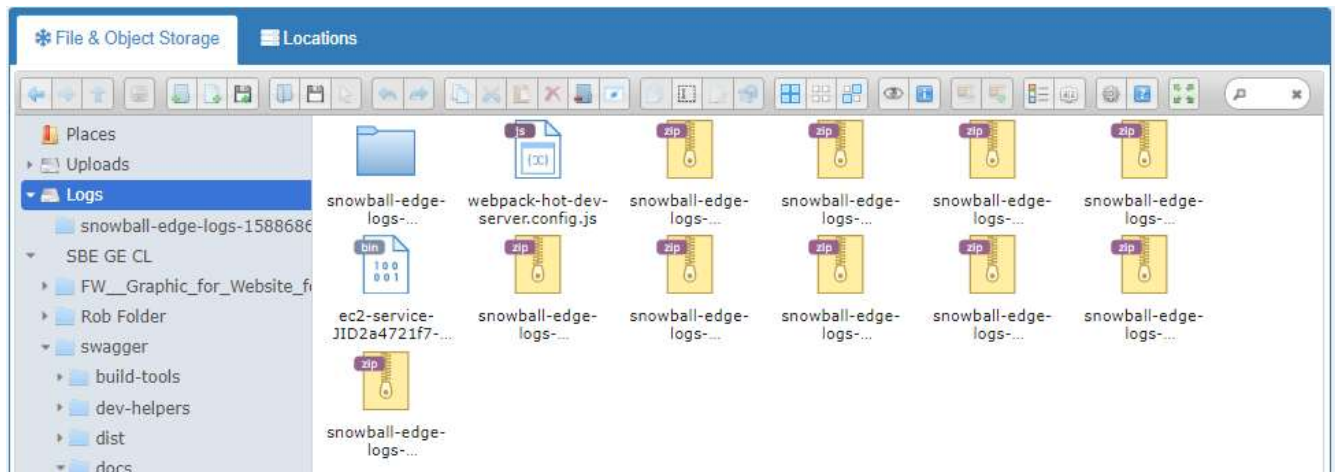
Data Management and Migration:

- **File & Object Storage (S3) on your Snowball device:**

Operation on the UI is similar to your operating system's standard file manager. However, Drag and Drop is not possible with mobile browsers.

- Right click or long tap to show the context menu.
- Drag and drop into the folder tree or the current workspace to move/copy items.
- Item selection in the workspace can be extended selection with Shift or Alt (Option) key.
- Drag and Drop to the destination folder or workspace to upload files and folders.
- The upload dialog can accept paste/drop clipboard data or URL lists and Drag and Drop from other browser or file managers etc.

 - Note this will also where you can access the Logs from the Snowball(s) after they are requested in the 3 Dot Menus



- Shortcuts for using File & Object Storage; you can also right click with mouse for menu:

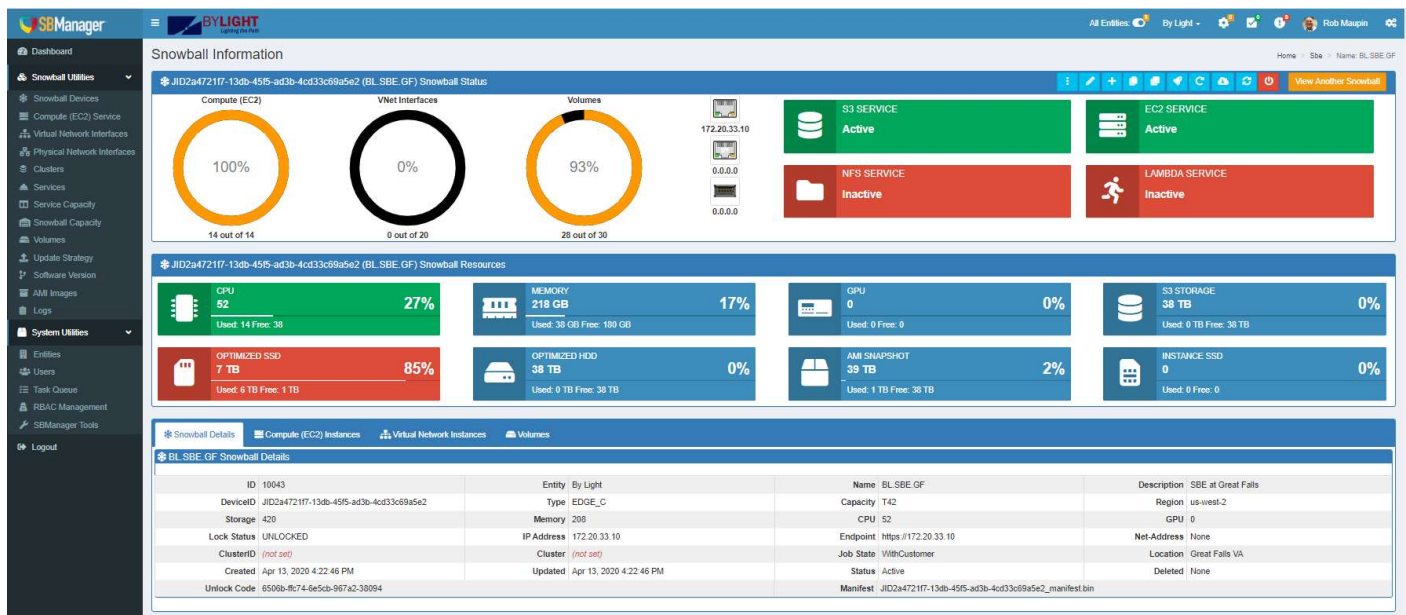
- | | | | |
|---------------------------|---------------------|-----------------|--------------------|
| ▪ CTRL+LEFT | Back | ▪ CTRL+SHIFT+UP | Home |
| ▪ BACKSPACE | Back | ▪ CTRL+I | Get info |
| ▪ CTRL+C | Copy | ▪ CTRL+SHIFT+N | New folder |
| ▪ CTRL+X | Cut | ▪ CTRL+DOWN | Open |
| ▪ SHIFT+ENTER | Download | ▪ ENTER | Open |
| ▪ CTRL+E | Edit file | ▪ CTRL+ENTER | Open in new window |
| ▪ DELETE | Delete | ▪ CTRL+V | Paste |
| ▪ CTRL+BACKSPACE | Delete | ▪ CTRL+COMMA | Preferences |
| ▪ SHIFT+DELETE | Delete | ▪ SPACE | Preview |
| ▪ CTRL+RIGHT | Forward | ▪ CTRL+SHIFT+R | Reload |
| ▪ F1 | About this software | ▪ F5 | Reload |
| ▪ CTRL+SHIFT+hidden items | DOTS how/Hide | ▪ F2 | Rename |
| ▪ CTRL+HOME | Home | ▪ SHIFT+F2 | Batch rename |
| | | ▪ CTRL+Z | Undo |

- | | | | |
|----------------|---------------------|---------------|-------------------|
| ▪ SHIFT+CTRL+Z | Redo | ▪ DOWN | Select item(s) |
| ▪ CTRL+Y | Redo | ▪ SHIFT+LEFT | Select item(s) |
| ▪ CTRL+UP | Go to parent folder | ▪ SHIFT+RIGHT | Select item(s) |
| ▪ CTRL+U | Upload files | ▪ SHIFT+UP | Select item(s) |
| ▪ SHIFT+F10 | Context menu | ▪ SHIFT+DOWN | Select item(s) |
| ▪ CTRL+A | Select all items | ▪ HOME | Select first item |
| ▪ CTRL+SHIFT+I | Invert selection | ▪ END | Select last item |
| ▪ LEFT | Select item(s) | ▪ PAGE_UP | Page turning |
| ▪ RIGHT | Select item(s) | ▪ PAGE_DOWN | Page turning |
| ▪ UP | Select item(s) | ▪ CTRL+F | Find files |
| | | ▪ F3 | Find files |

Snowball Detail Page:

- Individual Snowball Detail Page:**

On the Dashboard in the upper right hand corner click [View Snowball Information](#) and then choose your Snowball that you want to view the detail page with metrics. Additionally, you can also use this button to switch between Snowballs you want to view.



Continue to explore your SBManager software for lots of other great features.

- Additional Information:
 - General AWS Snowball Device Documentation:
 - <https://aws.amazon.com/snowball/>
 - <https://aws.amazon.com/snowball-edge/>