



## Installing

Extract the .tar file. The following contents appear in the directory:

- **onvault-x.y.z.tar.gz** is the package containing the OnVault utility.
- **InstallingVaultPackage.sh** is the script for installing the utility.
- **README** is the README file.
- **UninstallVaultPackage.sh** is the script for uninstalling the utility.

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**Note:** To install the OnVault utility, the install must be run either as a root user or with sudo privileges.

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After extracting, run the OnVault utility install package through the Linux Command Prompt:

```
sudo ./InstallingVaultPackage.sh
```

or

```
sudo -i (switches to root user)
```

```
./InstallingVaultPackage.sh
```

The command installs the OnVault utility to the following directory.

```
/tmp/Actifio/
```

## OnVault Utility Command Syntax

After the OnVault utility package has been installed, you can then run OnVault as follows.

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**Note:** *OnVault needs to be run either as a root user or with sudo privileges.*

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Type `sudo -i` to switch to root user and then run the utility,

or, if user already has sudo privileges, type `sudo OnVault`.

Upon running OnVault without any tags, the following help prompt displays:

```
usage: OnVault [-h] [-- appliance APPLIANCENAME] [-- host HOST] [-- app APP]
[-- image IMAGE]
[-- list {appliances,hosts,apps,images}] [-- i]
[-- bucket BUCKET] [-- cloud-storage {s3}]
[-- accessFile ACCESSFILE]
```

**Table 1: Optional Commands**

Command	Output
<code>-- h, -- help</code>	Show this help message and exits.
<code>-- appliance APPLIANCENAME</code>	Appliance Name
<code>-- host HOST</code>	Host name
<code>-- app APP</code>	Application Name
<code>-- image IMAGE</code>	Image Name
<code>-- list {appliances, hosts, apps, images}</code>	Lists details about a bucket.

**Table 2: Required Commands**

Command	Output
<code>--i</code>	Interactive Mode
<code>--bucket BUCKET</code>	S3 Bucket
<code>--cloud-storage {s3,gs}, -cs {s3,gs}</code>	Types of cloud storage. The valid types are Amazon AWS S3 and Google Nearline.
<code>--accessfile ACCESSFILE</code>	The file containing access key and the secret key. This must be in the following format: <code>access_key:private_key</code>

## Learning the Contents of a Vault

Use the **--list** command in order to view the contents and receive further details of a bucket prior to accessing it.

The bucket's host use this hierarchy:

```
<bucketname>/Actifio/<appliancename>/<hostname>/<appname>/<imagename>
```

---

**Note:** You must have the bucketname and accessfile name in order to view the contents of a given bucket.

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List Commands:

### List Commands for AWS S3:

To list all appliances, hosts, applications, or images:

```
$ OnVault --bucket <bucketname> --accessfile <accessfile> --list <appliances> s3
```

To list all hosts:

```
$ OnVault --bucket <bucketname> --accessfile <accessfile> --list <hosts> s3
```

To list all applications:

```
$ OnVault --bucket <bucketname> --accessfile <accessfile> --list <applications> s3
```

To list all images:

```
$ OnVault --bucket <bucketname> --accessfile <accessfile> --list <images> s3
```

### For Example:

```
$ OnVault --bucket actifiobucket --accessfile secretfile --list appliances
```

Based on the value queried by the **--list**, the output displays as the following:

```
+-----+
| Appliances |
|-----|
| s3://<bucketname>/Actifio/<appliance_name1>/ |
| s3://<bucketname>/Actifio/<appliance_name2>/ |
| s3://<bucketname>/Actifio/<appliance_name3>/ |
+-----+
```

## Running the OnVault Utility

The OnVault utility has an interactive and a non-interactive mode.

- Use the non-interactive mode when you are aware the image location, such as after finding it through the List command. After determining where the contents of the image you need to mount are located, the non-interactive commands are used to mount image. This is detailed in [Non-interactive mode](#) on page 6.
- The interactive mode provides visual prompt tags for step-by-step selection of the Actifio appliance, host, application, and image name. This is detailed in [Interactive Mode](#) on page 5.

The following are examples of required commands for interactive and non-interactive modes.

### **--cloud-storage**

- When using this command, specify which bucket are being accessed. If the specification is not given, the script will assume the bucket is an Amazon S3 bucket.

### **--accessfile**

- Specify for either AWS S3 or Google Nearline. For further information to furnish and use an Access Key and Private Key, please refer to **Amazon AWS and Actifio Vault for Long-Term Data Retention**
- The access key and private must be in a file using the following formats:

- o `access_key:private_key`

The access file must be stored locally on the same system from where the utility is run.

- o The credentials and configuration are both handled by the utility.

### **gcloud init --console-only**

For further details regarding how to configure Google Cloud, please check the official documentation at:

<https://cloud.google.com/sdk/gcloud/reference/init>

### **Non-interactive mode**

For the non-interactive mode, you must enter the following additional tags to the utility. The tags can be found with the OnVault `--list` command.

Example:

```
$ OnVault --bucket <bucketname> --accessFile <accessfile> --i --cluster <cluster_name> --host <host_name> --app <app_name> --image <image_name>
```

## Interactive Mode

The utility can be run in interactive mode with the following command line:

```
OnVault --bucket <bucketname> --accessFile <accessfile> --i --cloud-storage s3
```

A typical output for the interactive mode appears as follows based on the sequence of configuration command prompts:

```
$ accessmyvault --bucket actifiobucket --accessfile privatekeyfile --i s3
+-----+-----+
| | Appliance(s) |
|-----+-----|
| 1 | appliance1_appliancename |
| 2 | appliance2_appliancename |
+-----+-----+
```

At the prompt, enter the number of the appliance you wish to use. For example, **2**. A prompt for the Hosts that are protected by the selected appliance displays.

```
+-----+-----+
| | Host(s) |
|-----+-----|
| 1 | HostName1_HostnameId |
| 2 | HostName2_HostnameId |
+-----+-----+
```

At the prompt, enter the number of the host you wish to use. For example, **1**. A prompt for the Applications that reside on the selected host displays.

```
+-----+-----+
| | App(s) |
|-----+-----|
| 1 | appid1_appname1 |
| 2 | appid2_appname2 |
+-----+-----+
```

At the prompt, enter the number corresponding to the application you wish to use. For example, **2**. A prompt for the captured images for the selected application that reside in the bucket.

```
+-----+-----+
| | Image(s) |
|-----+-----|
| 1 | BackupImage1 |
| 2 | BackupImage2 |
| 3 | BackupImage3 |
| 4 | BackupImage4 |
+-----+-----+
```

Enter a numeric choice for the image. In this example, the choice is 1.

After entering the input for an image, the OnVault utility processes and metadata after mounts the required bucket.

The following is an example of the summary given upon completion of a interactive mode run:

```
Total Successful Mounts = 1
```

```
actifiobucket/actifio/<appliance2_appliancename>/<HostName2_HostnameId >/<appid2_appname>/
<BackupImage1>
```