

Cloudbursting: How can I attach an EBS snapshot volume to a new node in Amazon EC2?

Advanced customization of Amazon EC2 instances — attaching snapshots

In some cases there is a need to automatically attach an EBS volume created from a snapshot to a newly-created node. The script (`cm-attach-ec2-snapshot`) attached to the end of this article can help to solve this, or a similar, task.

In order to use the script, some changes should be made to the **software image** of the node.

yum install

First of all, some packages should be installed:

```
yum install cmdaemon-pythonbinding python-boto cluster-tools
```

ebs volume configuration file

Also, a snapshot configuration file `/etc/ebs_volume.conf` should be created

Sample contents:

```
[DEFAULT]
provider_name=Amazon
snapshot_id=snap-e12345
volume_device=/dev/sdh
```

Here:

provider_name — name of the cloud provider in Bright Cluster Manager

snapshot_id — the ID of a snapshot to be used for EBS volume creation

volume_device — the device name to be attached (e.g. `/dev/sdf`). Note that the real device name will probably differ from this value, and will be printed by a script at the end of its execution.

script placed in software image, path to script appended to rc.local

The script itself (`cm-attach-ec2-snapshot`) should be placed in the **software image**, and a path to it should be appended to `/etc/rc.local`

Sample `/etc/rc.local` file:

```
#!/bin/sh -e
/usr/local/bin/cm-attach-ec2-snapshot
```

Cloudbursting: How can I attach an EBS snapshot volume to a new node in Amazon EC2?

exit 0

finalize script instance metadata grab

The **finalize script** for the node should also be modified to include the following command:

```
wget -q -O /localdisk/etc/instance_metadata  
http://169.254.169.254/latest/dynamic/instance-identity/document
```

After all is set, when the machine starts the script it will create an EBS volume from a snapshot id specified in **/etc/ebs_volume.conf**, attach it to a running instance, and print the new block devices.

Unique solution ID: #1264

Author: oleksandr

Last update: 2015-05-15 14:04