



AWS Lab 21

Automating the Creation, Copy, Retention of Snapshot and AMI

Overview of the lab

In this lab you will learn to how to create an EBS lifecycle policy for EBS-backed AMI


EBS Data Life Cycle

It is used to automate the process of creating, retaining, copying and deleting snapshot and AMI

Step by Step Lab

Launching linux instance with userdata and configure apache web server

1. [Login](#) to aws cloud account via the aws management console
 2. Select [us-east-1](#) region (you can choose any region of your choice)
 3. Search for EC2 and in EC2 management console, launch instance
 - 3.1. Name and tag – [linux-webserver](#)
 - 3.2. Application and OS Images – [Red Hat](#)
 - 3.3. Instance type - [t2.micro](#)
 - 3.4. Key pair – [select the existing keypair](#)
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- 3.5. Edit Network settings
 - a. Subnet – subnet in us-east-1a (even no preference is fine)
 - b. Firewall – [select existing security group](#)
 4. In Advanced Details(scroll down to bottom), copy the below bash script in userdata section

```
#!/bin/bash
yum install httpd git -y
systemctl start httpd
systemctl enable httpd
cd /var/www/html
git clone https://github.com/jerrish/site_particles.git . #copy with dot
```
 5. Number of instances - 1
(Leave all other settings as default and launch instance)
 6. Once the instance is launched
 - 6.1 Wait for instance state – [running](#)
 - 6.2 Try accessing the website

Create a new lifecycle policy for EBS backed AMI

1. Click on [Lifecycle Manager](#)
 2. Select the policy type as [EBS-backed AMI policy](#) and click [next step](#)
 3. In target source tags select key as [Name](#) and value as [linux-webserver](#) (should match with the instance tag) and click on [add](#)
 4. Policy description - [demo-policy](#)
 5. Click on [next](#)
 6. In schedule details - retention type - [count](#) and keep - [2](#)
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7. Review policy and create policy

(wait up to 30 mins from the time of schedule to see automated AMI and snapshot getting created)

Clean Up Step

1. Select the instance and **terminate it**
 2. Select the data lifecycle manager policy and **delete lifecycle policy**
 3. Select the ami and **deregister it**
 4. Select the snapshot and **delete it**
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