1 forked / aws-ec2-ebs
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Creating EBS Volumes , Snapshotting them and mounting on other instances in future
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Pranay Gaur added additional video to readme.txt Latest commit 7b1a8ac 15 minutes ago
ec2_ebs_part1 Added screen captures for part1 3 days ago
ec2_ebs_part_2 added additional video to readme.txt 5 minutes ago
.DS_Store added ranges folder for part2 7 hours ago
README.md added additional video to readme.txt 10 seconds ago

README.md

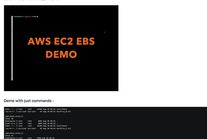
aws-ec2-ebs

Part 2

In this Boto3 example we will do this

1. Creating EC2 instance using Boto3 (in use-west-2)
2. We will also create 3 volumes using Boto3
3. We will attach volumes to EC2 instance that we created in step 1
4. Volumes will be formated and we will upload .txt file and mount these 3 volumes - write some test files
5. Shutdown EC2 Instance
6. Create a snapshot of these 3 instances
7. Deleting these 3 volumes as well
8. Creating new EC2 instances
9. Creating volumes from snapshots from step 6
10. Again attaching the volumes and via SSH mounting them again back to this new EC2 instance
11. We will see that files that we created in step 4 are still there
12. Once all done we will teardown the all the instance and volumes

Below video shows steps 1 to 10



Demo with just commands :

Below video shows steps 12 about teardown)

Python files

cleanUnmoutPart.py :

This file will be used to teardown, first it will delete EC2 instance then it will
delete volumes and in last all the snapshots that we created during this demo . All the
instances/volumes/snapshot ID I guess it from temp files that we use to store this information

createEbsFromSnapshot.py :

This is a helper class, it is used to create EC2 instances and wait for them to come up .
It also has some helper functions

runEbsVol.py :

This is a main file - It does all the steps described above (1 to 10)
During program execution it uses temporary files to store EC2 instances , volume and snapshot id

Output

- Click to see full output

```
~ ec2_ebs_part2 git:(master) x ./runEbsVol.py
2019-08-26 10:08:11 ==========================================> Creating EC2 instance <==========================================
2019-08-26 10:08:12 EC2 instance has been created with ID : i-05e3a6e52d4ed0c3
2019-08-26 10:08:12 Waiting for instance to come up ...
2019-08-26 10:08:16 Instance is running now waiting for it to initialized
2019-08-26 10:08:16 Instance status : initializing
2019-08-26 10:08:16 Instance status : initializing
2019-08-26 10:08:16 Instance status : initializing
2019-08-26 10:08:16 Instance status : ok
2019-08-26 10:08:16 Instance is now initialized and ready to go
2019-08-26 10:08:16 Public IP assigned to this instance is: 34.215.206.250
2019-08-26 10:08:16 Now we will create 3 volumes and attaching to EC2 instance
2019-08-26 10:08:16 Attached 2 gig volume to same as-west-2b volumeId=vol-09a2b4b12c7bf92c4
2019-08-26 10:08:16 Volume state=creating
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume state = creating
2019-08-26 10:08:16 Volume state = creating
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume state = available
2019-08-26 10:08:16 Attached volume to EC2 instance
2019-08-26 10:08:16 {u'Volume,u' vol-09a2b4b12c7bf92c4' has been saved to file: /tmp/tlec/volumeIfile0
2019-08-26 10:08:16

2019-08-26 10:08:16 {u'Attached 2 gig volume to same as-west-2b volumeId=vol-0922b5d04ef01ad
2019-08-26 10:08:16 Volume state=creating
2019-08-26 10:08:16 Volume state = creating
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume state = creating
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume state = creating
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume state = available
2019-08-26 10:08:16 Attached volume to EC2 instance
2019-08-26 10:08:16 {u'Volume,u' vol-0922b5d04ef01ad' has been saved to file: /tmp/tlec/volumeIfile1

2019-08-26 10:08:16 {u'Attached 2 gig volume to same as-west-2b volumeId=vol-0f1f2d4d5e4e7d1a2
2019-08-26 10:08:16 Volume state=creating
2019-08-26 10:08:16 Volume state = creating
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume state = creating
2019-08-26 10:08:16 Volume is not ready
2019-08-26 10:08:16 Volume state = available
2019-08-26 10:08:16 Attached volume to EC2 instance
2019-08-26 10:08:16 {u'Volume,u' vol-0f1f2d4d5e4e7d1a2' has been saved to file: /tmp/tlec/volumeIfile2
2019-08-26 10:08:16

2019-08-26 10:08:16 ==========================> Adding volumes to EC2 Instance <==========================
2019-08-26 10:08:16 Waiting for volumes to get ready create disk (here volumes) and wait 5 to drive
2019-08-26 10:08:16 Command we are using is :
sudo /./././
```