



Prashant Lakhera

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# 100 Days of DevOps — Day 33- On Demand Hibernate

Welcome to Day 33 of 100 Days of DevOps, Focus for today is On Demand Hibernate. This is the new feature released by AWS during reinvent 2018

## Why do we need On Demand Hibernate

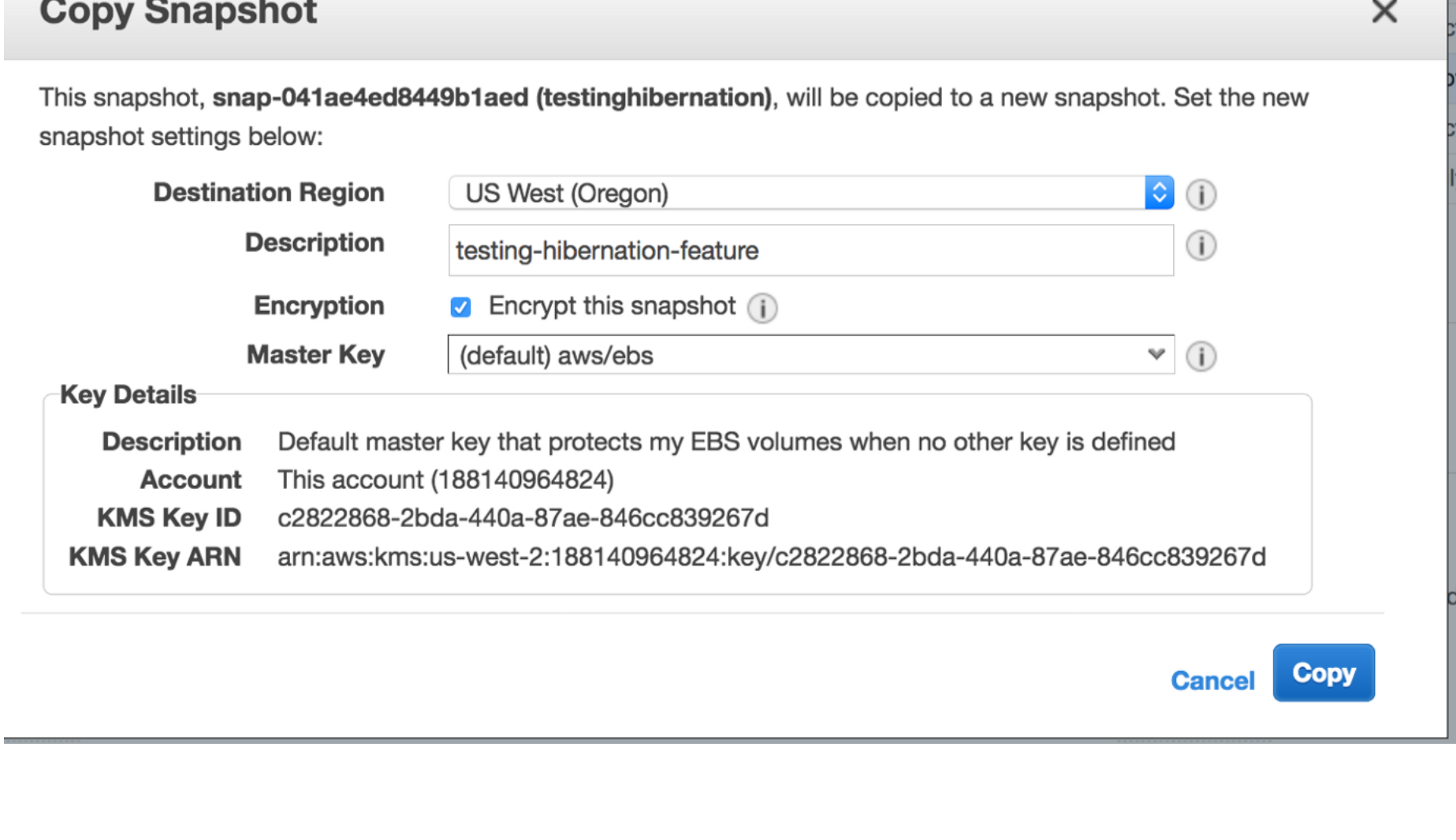
- EC2 Instance can be up in a matter of a second, but booting OS and Application sometimes take several minutes
- Warming up cache can take several minutes
- Hibernate stores the in-memory state of the instance(along with Private and Elastic IP)
- Pick up exactly where you left off
- Supported instance type(M3, M4, M5, C3, C4, C5, R3, R4, and R5)
- Supported OS(Amazon Linux 1)
- Amazon Linux 2(work in progress), No support for Centos family :( (Coming soon: Amazon Linux 2, Ubuntu, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, along with the SQL Server variants of the Windows AMIs)
- Support for on-demand and reserved instance

## How it works

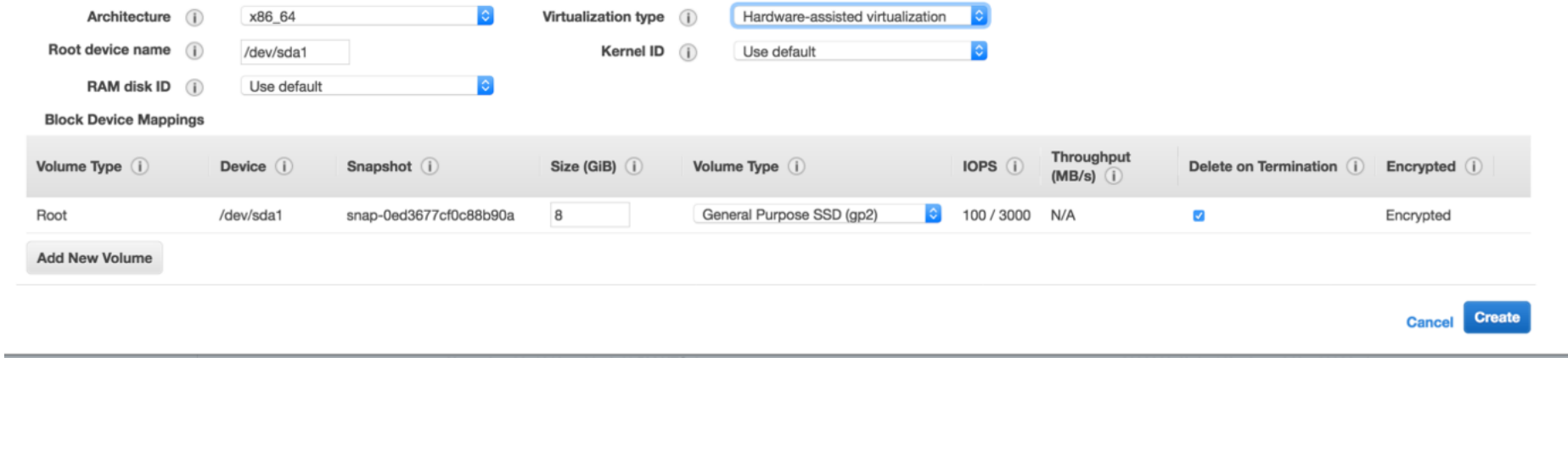
When we instruct instance to hibernate it will write it's in-memory data to the mounted EBS Volume and then shut down itself

- AMI as well as both EBS Volume need to be encrypted
- Encryption ensures proper protection for sensitive data when it is copied from memory to the EBS volume
- To test this feature, I need to do some reverse engineering

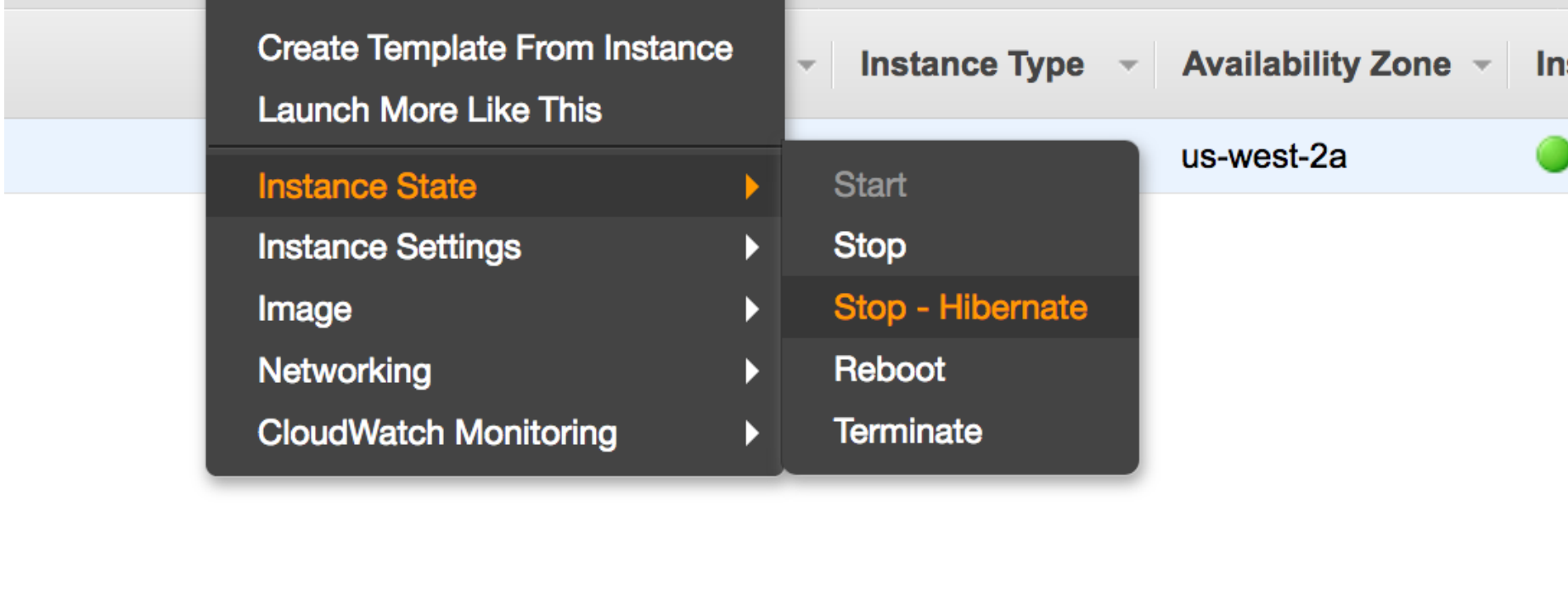
**Step1:** Create the snapshot of root volume and then use copy option, which enables encryption option.



- Create an AMI out of this volume(which is encrypted by default)



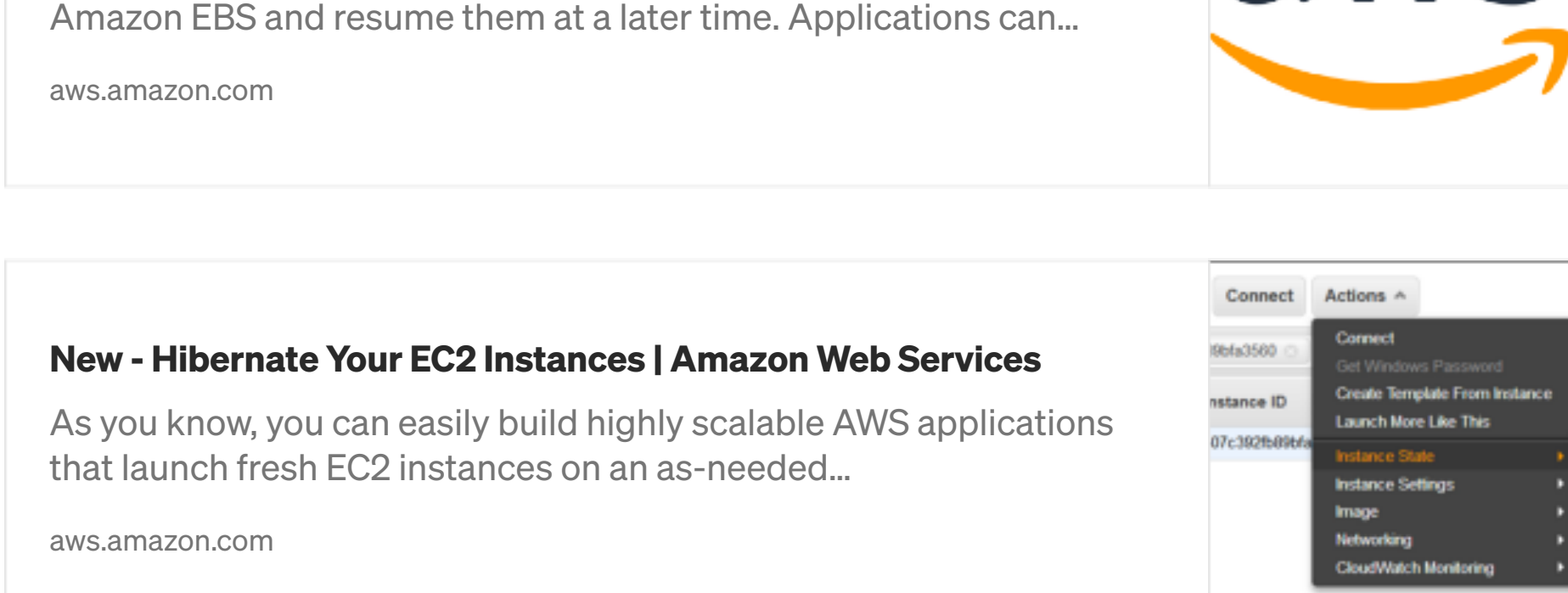
- Choose the supported instance type and make sure hibernation is enabled



- Also, make sure /root has sufficient space to hold in-memory data
- I can use uptime command to see that the instance has not been rebooted, but has continued from where it left off

```
root@ip-172-31-27-77 ~# uptime
08:11:20 up 3 min, 2 users, load average: 0.09, 0.06, 0.02
```

## Reference



Looking forward from you guys to join this journey and spend a minimum an hour every day for the next 100 days on DevOps work and post your progress using any of the below medium.

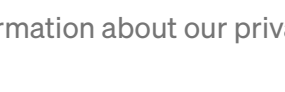
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- Facebook: <https://www.facebook.com/groups/795382630808645/>
- Medium: <https://medium.com/@devopslearning>
- Slack: <https://devops-myworld.slack.com/messages/CF41EFG49/>
- GitHub Link:<https://github.com/100daysofdevops>

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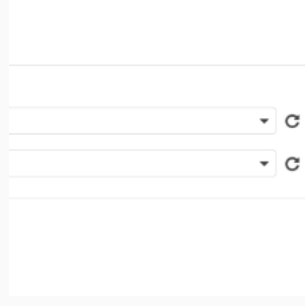
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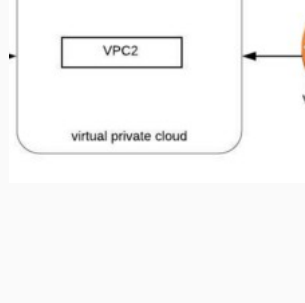


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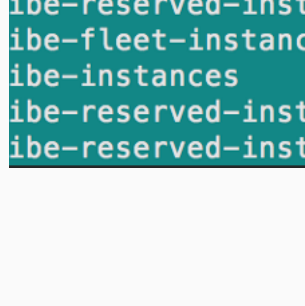
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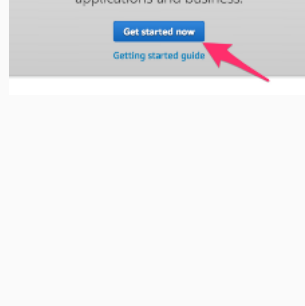
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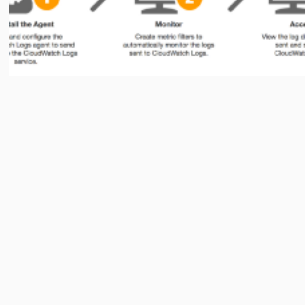
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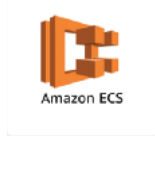
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