



Prashant Lakhera

Mar 7, 2019 · 2 min read · Listen



100 Days of DevOps — Day 25-AWS S3 Bucket using Terraform

Welcome to Day 24 of 100 Days of DevOps, Let continue our journey with terraform and see how to use terraform with S3 bucket.

What is AWS S3?

AWS Simple Storage Service(S3) provides secure, durable and highly scalable object storage. S3 is easy to use and we can store and retrieve any amount of data from anywhere on the web.

Let's create S3 bucket using terraform


```
1 provider "aws" {
2   region = "us-west-2"
3 }
4 resource "aws_s3_bucket" "example" {
5   bucket = "my-test-s3-terraform-bucket"
6   acl = "private"
7   versioning {
8     enabled = true
9   }
10  tags {
11    Name = "my-test-s3-terraform-bucket"
12  }
13 }
```

aws_s3_bucket.tf hosted with by GitHub [view raw](#)

AWS: aws_s3_bucket — Terraform by HashiCorp

Provides a S3 bucket resource.

www.terraform.io



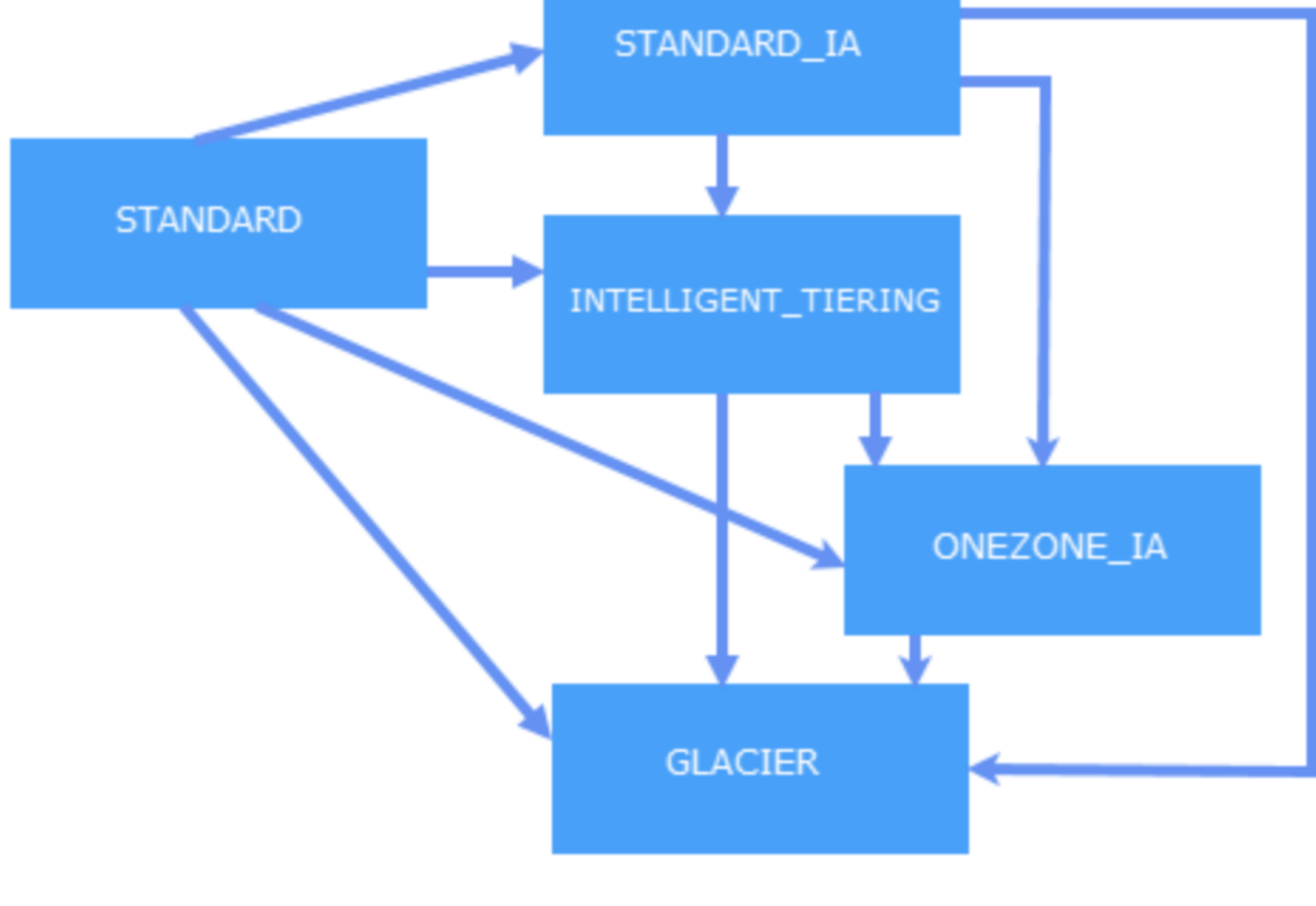
bucket: name of the bucket, if we ommit that terraform will assign random bucket name
acl: Default to Private(other options public-read and public-read-write)
versioning: Versioning automatically keeps up with different versions of the same object.

NOTE: Every S3 bucket must be unique and that why random id is useful to prevent our bucket to collide with others.

LifeCycle Management

Why do we need LifeCycle Management?

- To save cost
- In most of the cases, data which is generated by our application is relevant for us for the first 30 days and after that, we don't access that data as frequently.




Reference:

Transitioning Objects — Amazon Simple Storage Service

You can add rules in a lifecycle configuration to tell Amazon S3 to transition objects to another Amazon S3 storage...

docs.aws.amazon.com



LifeCycle object supports the following but I am going to enable just the required parameters

- **enabled** — (Required) Specifies lifecycle rule status.
- **transition** - (Optional) Specifies a period in the object's transitions

```
1 provider "aws" {
2   region = "us-west-2"
3 }
4 resource "aws_s3_bucket" "bucket" {
5   bucket = "terraform-20181219040316452900000001"
6   acl = "private"
7   lifecycle_rule {
8     enabled = true
9     transition {
10      days = 30
11      storage_class = "STANDARD_IA"
12    }
13    transition {
14      days = 60
15      storage_class = "GLACIER"
16    }
17  }
18 }
```

s3_bucket_policy.tf hosted with by GitHub [view raw](#)


- Here I am defining after 30 days move the objects to STANDARD_IA and after 60 days to GLACIER.

GitHub Link

100daysofdevops/100daysofdevops

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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.

- Twitter: [@100daysofdevops](#) OR [@lakhera2015](#)
- 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>

Reference

100 Days of DevOps — Day 0

D-day is just one day away and finally, this is a continuation of the post(I posted a month earlier)

medium.com

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100 Days of DevOps — Day 24- How to encrypt S3 Bucket using KMS

Welcome to Day 24 of 100 Days of DevOps, Let continue our journey with terraform and on Day22 I give you a brief introduction about KMS, day 2...



AWS 4 min read



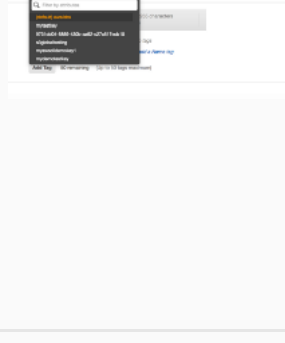
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100 Days of DevOps — Day 23- How to encrypt EBS Volume using KMS

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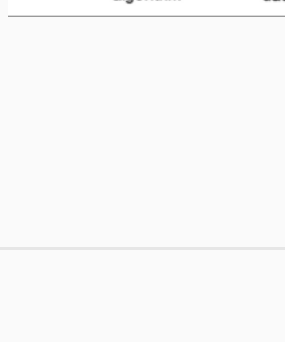
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100 Days of DevOps — Day 22-Introduction to Key Management System(KMS)

Welcome to Day 22 of 100 Days of DevOps, Let continue our journey with terraform and today we are going to create KMS keys using terraform....



AWS 5 min read



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100 Days of DevOps — Day 21- MySQL RDS Database Creation using Terraform

Welcome to Day 21 of 100 Days of DevOps, Let continue our journey with terraform and today we are going to create MySQL database using terraform What Is Amazon Relational Database Service...

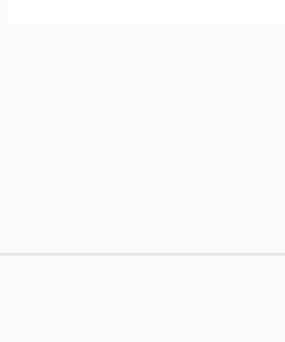
AWS 3 min read



Mar 2, 2019

100 Days of DevOps — Day 20— Auto-Scaling Group using Terraform

Welcome to Day 20 of 100 Days of DevOps, Let continue our terraform journey, yesterday we created an application load balancer, let expand th...



AWS 4 min read

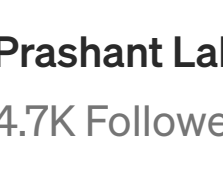


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