AWS EFS

CLARUSWAY
WAY TO REINVENT YOURSELF

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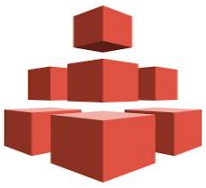
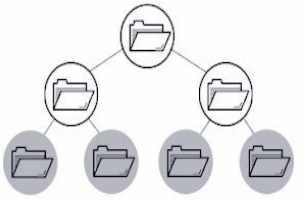
1 Introduction to EFS

Introduction to EFS

What is EFS?



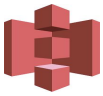


- Simple, scalable, fully managed Elastic NFS file system.

Introduction to EFS

Recap of the Storage Options

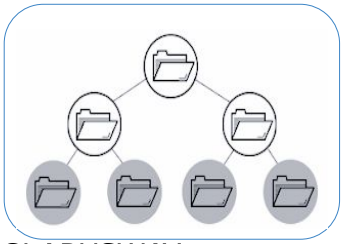
Amazon EFS



S3

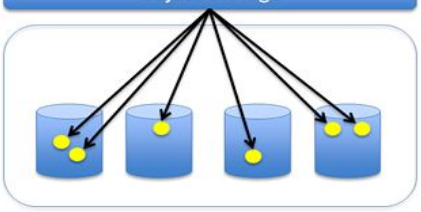
Amazon Elastic Block Storage (EBS)

File Storage

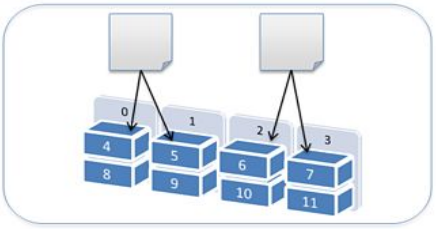


HTTP(S) Interface

Object Storage



Block Storage



2 Features of EFS

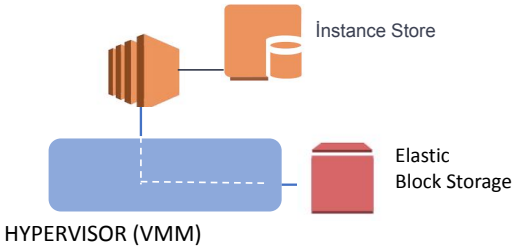
Features of EFS

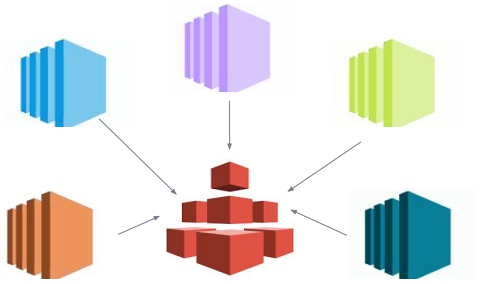
Scalability-Cost

- EFS is elastic, storage capacity increases and decreases automatically as you add and delete files
- There is no minimum fee or setup cost.
- Create up to 1000 file systems per region

Features of EFS

Attaching

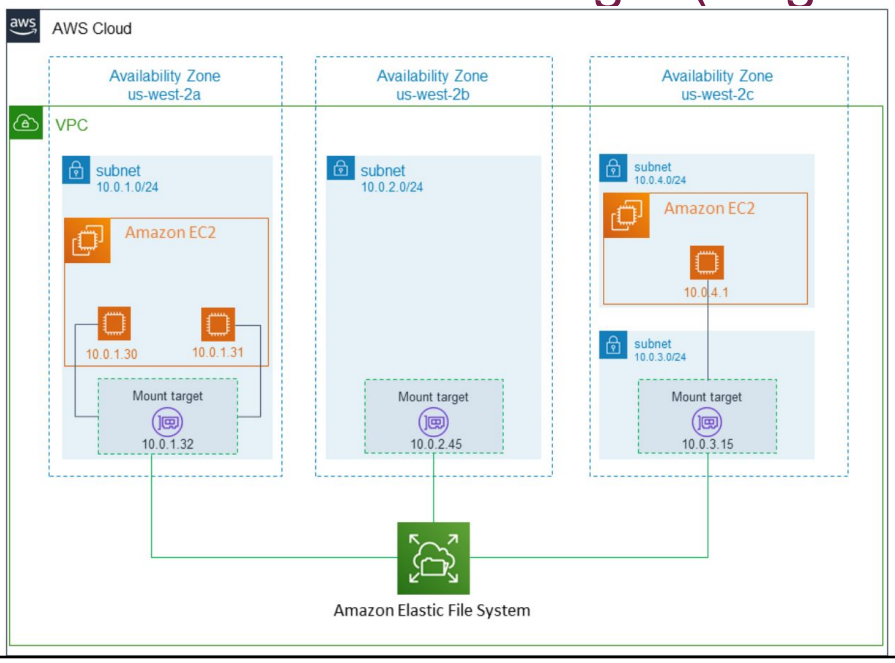




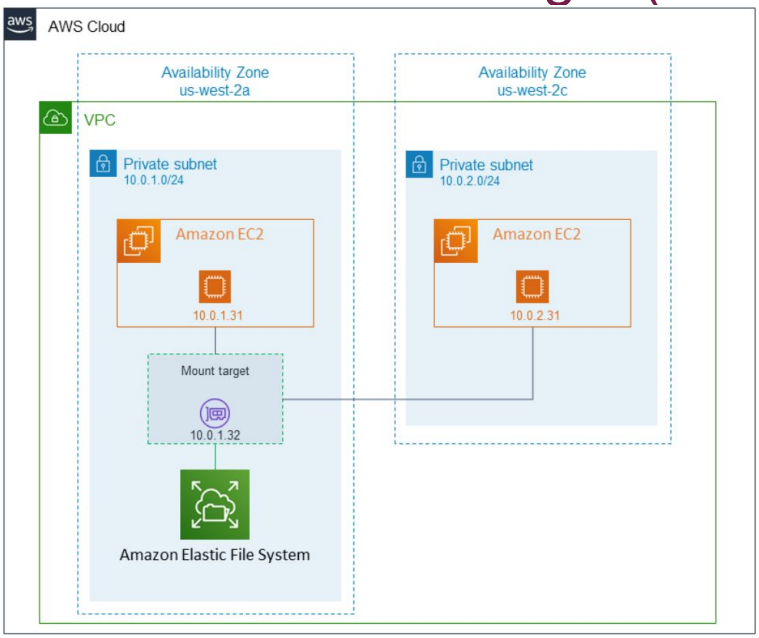
- Unlike *EBS, **multiple Amazon EC2** instances (**Linux only**) even **in different AZ's** can be attached Amazon **EFS** file system **at the same time**.

*Except Nitro-based instances in the same Availability Zone.

EFS Structure : Mount Target (Regional)

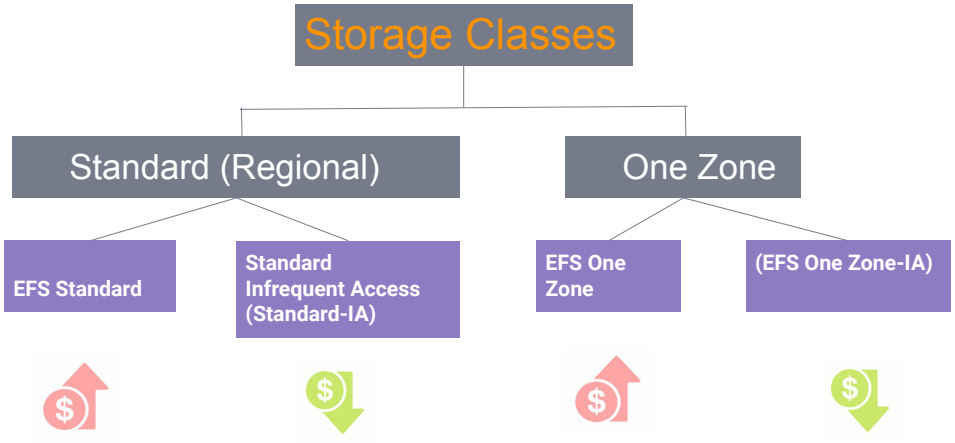


EFS Structure : Mount Target (One Zone)



Features of EFS

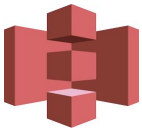
Storage Classes



3 Comparison of Storage System

Comparison of Storage Systems

Amazon EFS

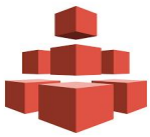


S3

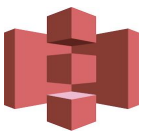
EBS

- Cost : S3 < EBS < EFS
- Performance (IOPS) : EBS , EFS > S3
- Performance (latency): EBS < EFS < S3
- EC2 mount : S3 : No
  EBS : Single*
  EFS : Multiple
- Storage Capacity : S3, EFS = ∞ vs. EBS =16 TB

Comparison of Storage Systems



Amazon EFS



S3

EBS

- Large quantities of data,
- Large analytic workloads.
- Global content management

-Website images and videos,
-Data analytics of mobile/web applications.
- Data which is needed to be accessed from anywhere.

- High IOPS required data ,
- Database management.

THANKS!

Any questions?

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amazon web services

Break
return @ 12pm

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