

EFS

storage ---EBS ---EC2----OS OR ADDITIONAL STORAGE

limit ----availibilty zone

common storage -----multiple ec2 or differnt availibity zone

solution ----efs -----

physical environments ---storage allocate by efs

efs ----linux machine

NFS share

storage limit ----pay as per use

elasticity ,, availibilty ,

FSx-----microsoft share ----cifs / smb

microsoft ---best

vmware , hyper v , linux

NAS ---

SAN

share

block storage ---allocate ---part / file sysytem

file base

linux ----ext2 ext3 ext4 xfs

object base

microsoft ----fat32 ntfs refs

fsx-----active directory intigrated

security ---

EFS Architecture

EFS moves the instances closer to a stateless.

EFS is an implementation of NFSv4

EFS Filesystems can be mounted in Linux.

Using Amazon EFS with Microsoft Windows-based Amazon EC2 instances is not supported.

Media can be shared between many EC2 instances.

This is a private service, access is via mount targets inside a VPC.

You can access from on-premises with VPN or DX so long as access is configured.

Elastic File System Explained

EFS runs inside a VPC. EFS includes POSIX permissions. These are made available via mount targets.

For a fully highly available system you need a mount target for each AZ the system runs in.

You can use hybrid networking to connect to the same mount targets.

EFS Exam Powerup EFS is Linux Only

Two performance modes, general purpose and max I/O performance mode.

General purpose = default for 99.9% of uses

Bursting and provisioned throughput modes.

Two storage classes available, standard and infrequent access.

Lifecycle policies can move data between EFS