Block Based
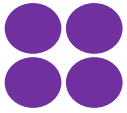
EBS

Totally = 16KB in size

Divide your object into the blocks max 4KB inseize

Each Block=4KB in size

Block1	Block2	Block3	Block4
Block5	Block6	Block7	Block8
Block9	Block10	Block11	Block12
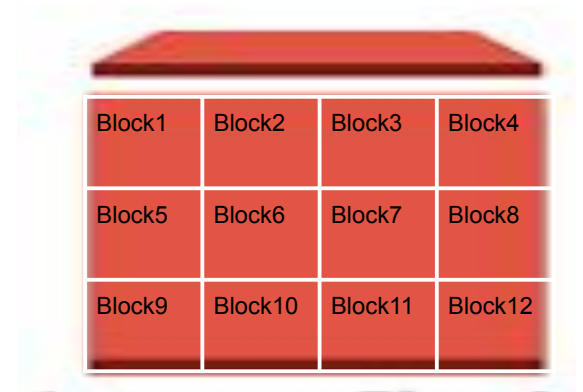
Each Block= 4KB in seize

Total blocks number= 12

Totally = 48KB

Who can call the data? =Only related EC2

Object Based

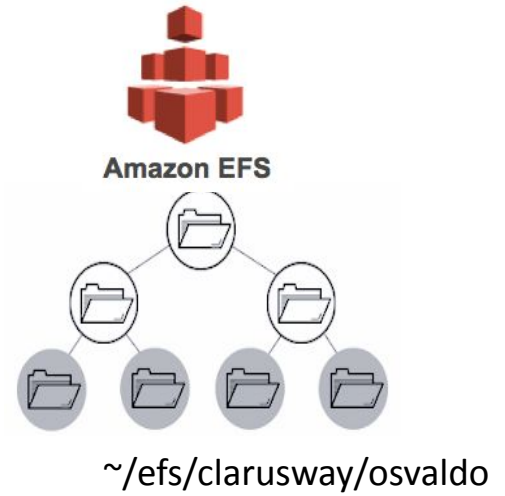Totally = 16KB in size
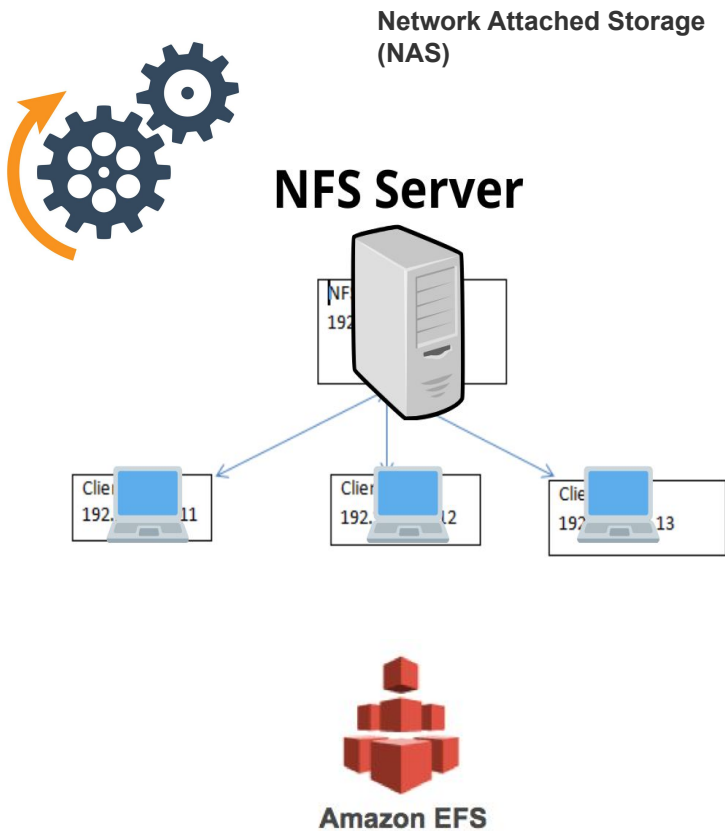
Who can call the data? = Anybody with public **internet** and permission

File Based

Amazon EFS

~/efs/clarusway/osvaldo

Who can call the data? = Multiple or single EC2

Network Attached Storage (NAS)

**Storage Area Network (SAN)- Block Device
DAS (direct-attached storage)**

NFS Server

NF
192

Clie
192.   11

Clie
192.   2

Clie
192   13

Amazon EFS

CIFS vs. NFS vs. SMB

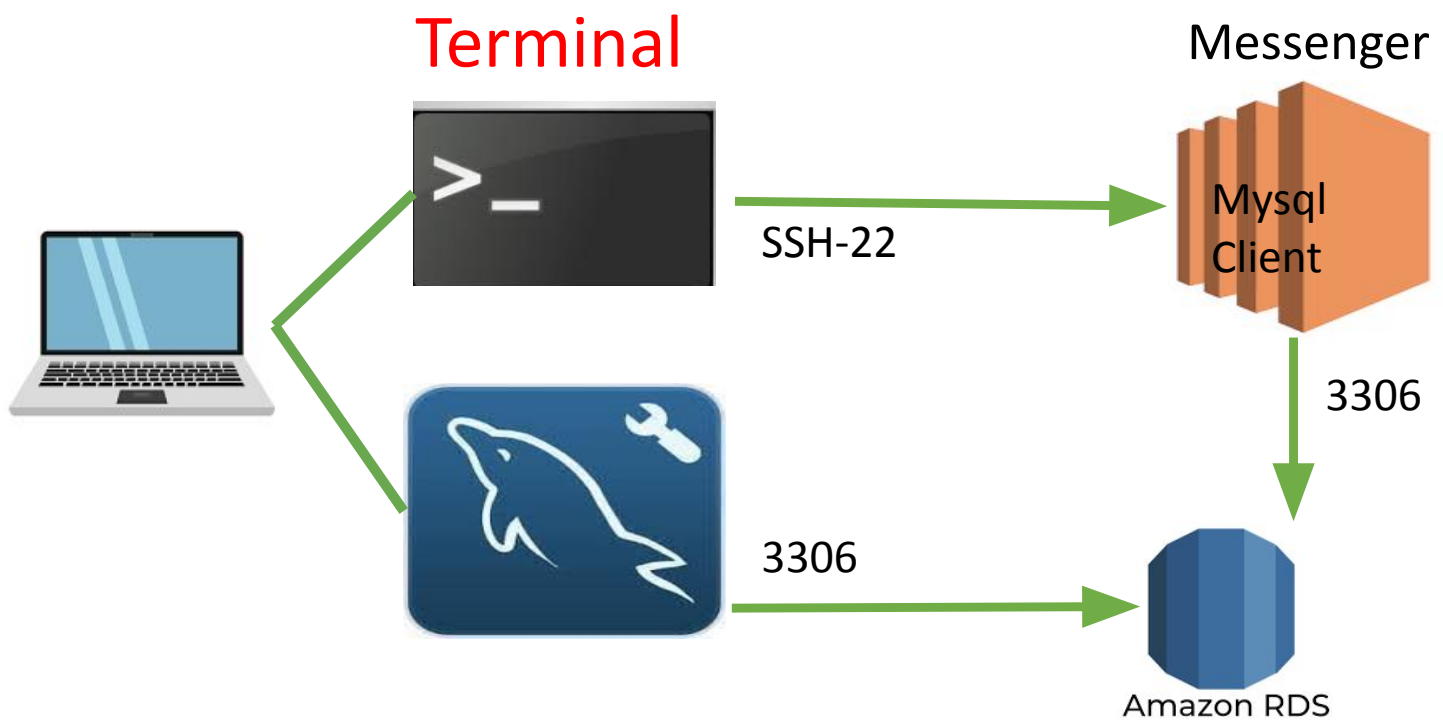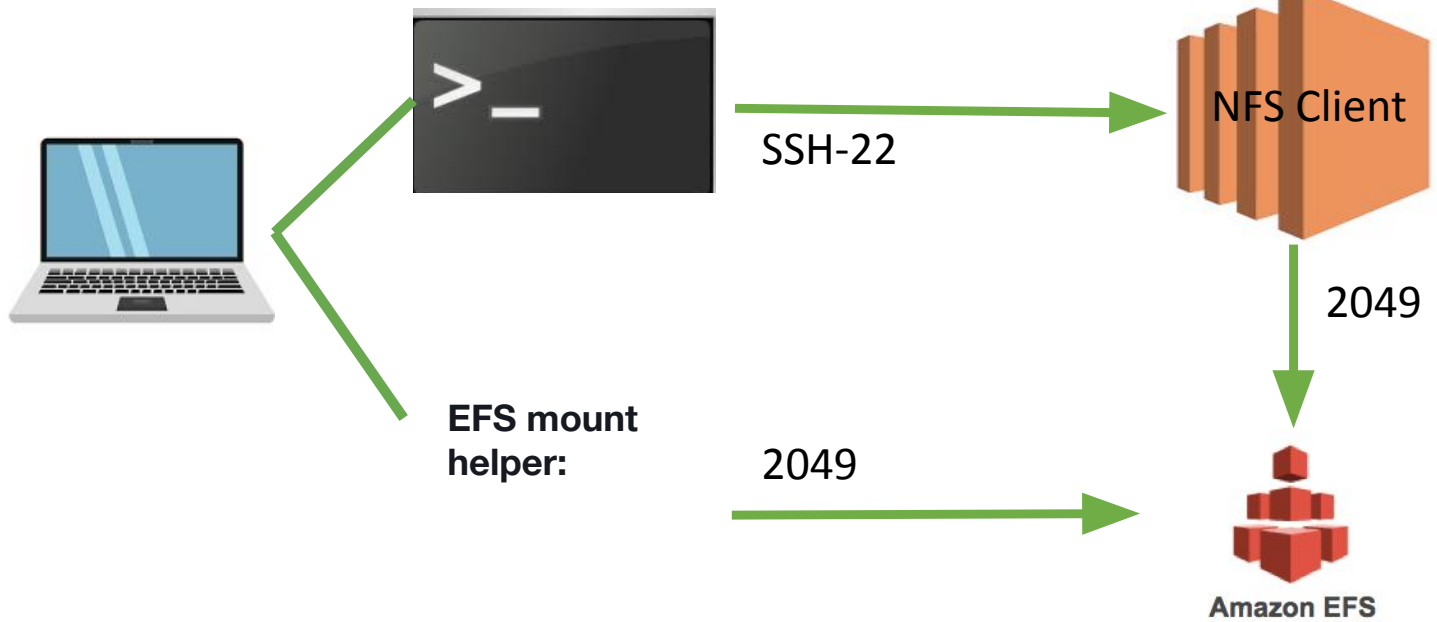|	CIFS	NFS	SMB
NAME	Common Internet File System	Network File System	Server message block
DEVELOPER	Microsoft	Sun Microsystems	IBM
BEHAVIOR	Chatty protocol that was buggy	Less chatty than CIFS	Reduced its hundreds of commands and subcommands down to just 19 with SMB 2.0
FUNCTION	A client program requests a file from a server program located on another computer, and the server responds	Client-server application that permits transparent file sharing between servers, desktops, laptops and other devices	A client-server communication protocol used for sharing access to resources on a network
SECURITY	Hard to maintain and not very secure	Inherently insecure and should only be used on a trusted network behind a firewall	End-to-end encryption and Advanced Encryption Standard
SUPPORTED BY	Obsolete	Unix, Linux OSes and Windows	Windows, Unix supported by Samba

İboub>>>22
out>>>all

İboub>>>2049 sec
out>>>all

EFS
Security Group

Public Subnet 1a

Security Group -aa.Sec.group

Amazon EFS

Internet Gateway

Security Group -2

Private Subnet 1a
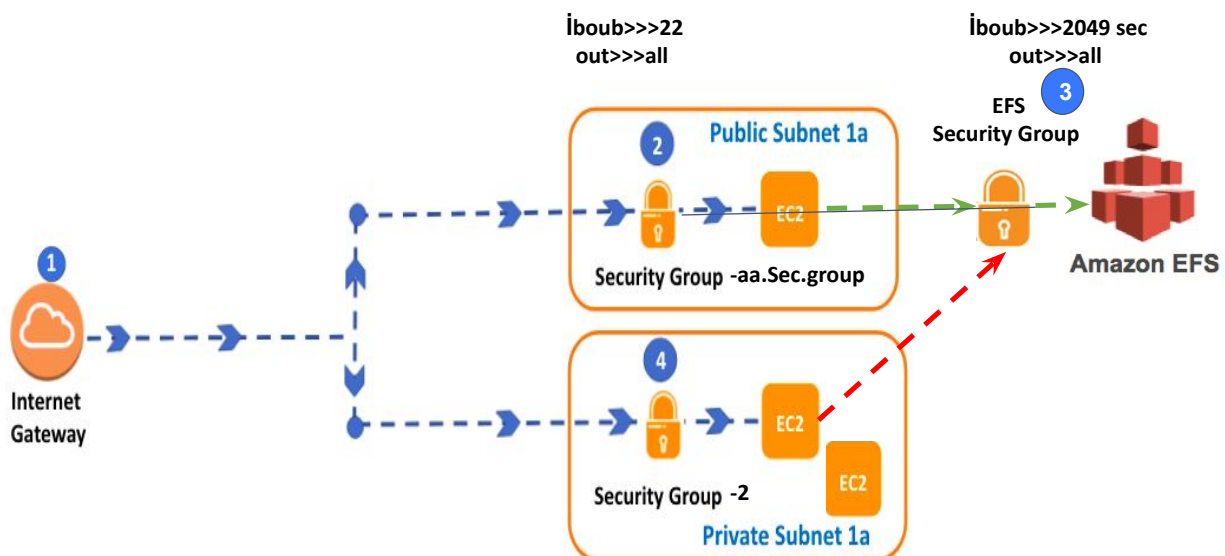
IOPS

Throughput

Terminal

Messenger

SSH-22

Mysql Client

3306

3306

Amazon RDS

Terminal

Messenger

NFS Client

SSH-22

2049

EFS mount helper:

2049

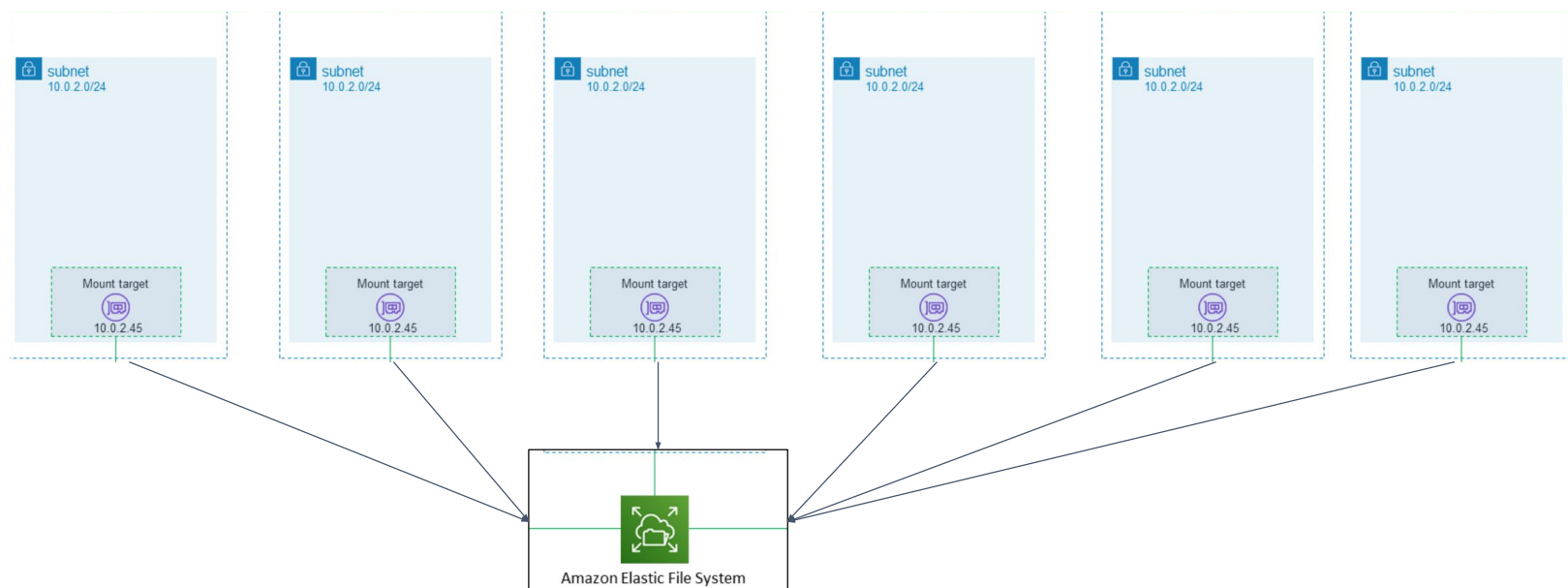**Automatically select the instance AZ.**

Amazon EFS

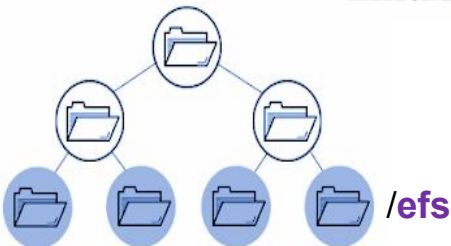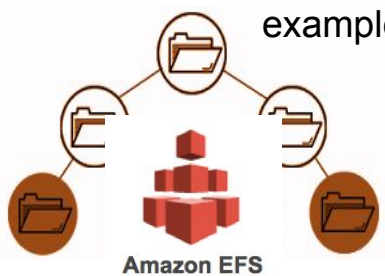| us-east-1a	us-east-1b	us-east-1c	us-east-1d	us-east-1e	us-east-1f

subnet 10.0.2.0/24 (×6)
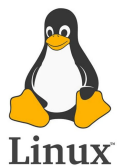
Mount target 10.0.2.45 (×6)

Amazon Elastic File System
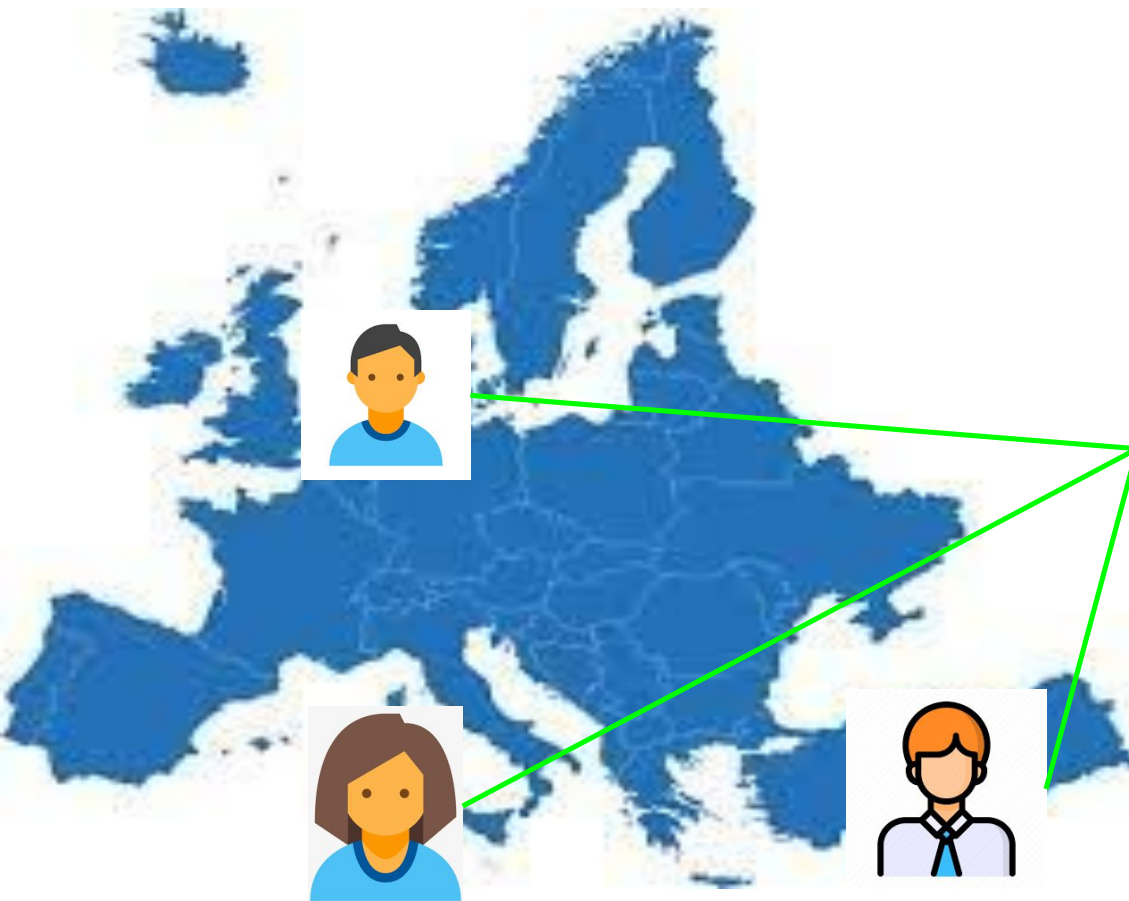
/**efs**
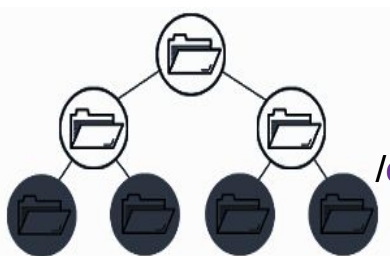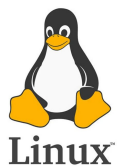
/**efs**

example

Amazon EFS

AZ-1A

AZ-1B

/**efs**
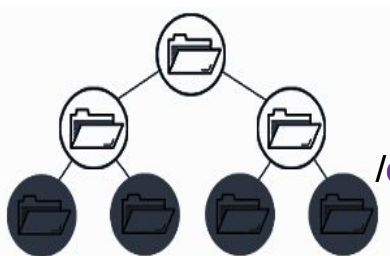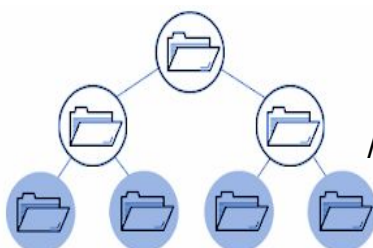
/**efs**

mnt/**efs/fs1**

Amazon EFS