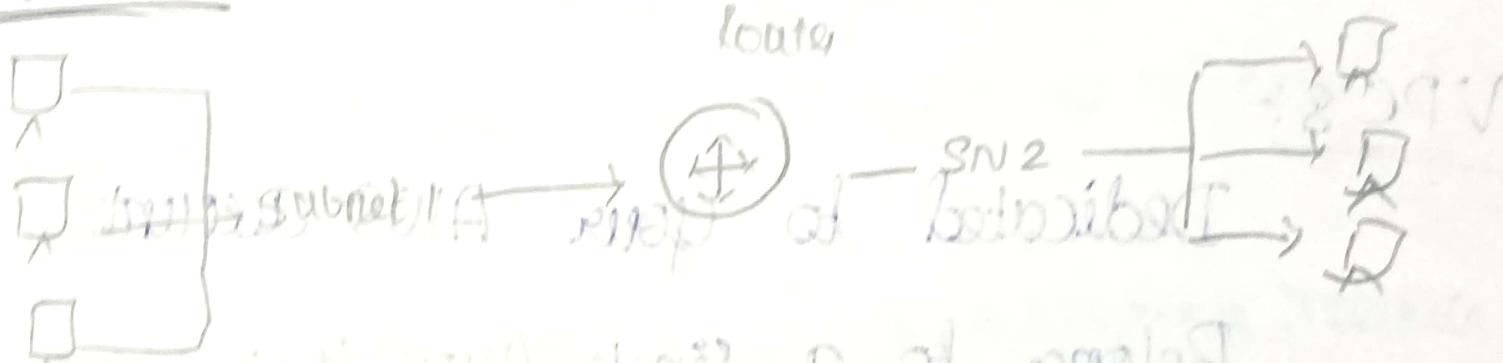


25/2/26 [DAY-3]

NETWORKS



CIDR [Classless Inter - Domain Routing]

192.0.2.0 24
Network identifier → Host identifier.

Shaw fixed 20A + 20B behind

skripten von FT + abvist

encapsulation of work for each case ~~now~~

Amazon VPC →

Enables you to provision a logically isolated section of the AWS resource in a virtual network that define.

Give you control over your virtual networking resource, including:-

Selection of IP address range

Creation of Subnets

Configuration of route & network gateways

Enable you to customize the network configuration for your VPC.

Enable you to use multiple layers of security

VPCs:-

Dedicated to your AWS account

Belong to a single AWS Region & can span multiple Availability zones

Subnet:-

Range of IP addresses that define a VPC

Belong to a single Availability zone

Classified Public → Access of network

Private → If any network

or IP wants secure does not show to public persons

IP Addressing

Create VPC, Assign it to IPV4 CIDR block (range private IPV4).

Cannot change the add range after you create the VPC.

Largest IPV4 CIDR Block Size /16

Smallest " " " " /28

IPV6 is also supported (with a diff BlockSize limit)

CIDR blocks of Subnet Cannot Overlap

Elastic Network Interface

ENI is a virtual network interface

- Attach to instance
- Detach from " & Attach to another instance to redirect network traffic.

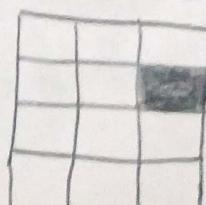
It attribute follow when it is reattached to new instance.

Each instance in your VPC has default network interface.

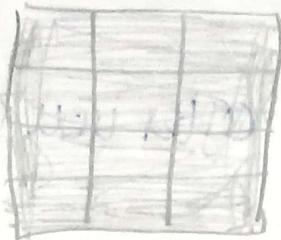
Assign private IPV4 add from IPV4 add range of your VPC.

STORAGE

Block Storage: Change one block (piece of file) that contain the chn



Object Storage: Entire file must be uploaded



Amazon EBS:

volumetypes

	SSD	HDD
IOPS	Provisioned IOPS	Throughput Optimized
Max IOPS/v	16000	500
Max Throughput	1000 MiB/s	250 MiB/s
-Put / Vol		

Homework:

Amazon S3

Adv

Disad

High availability

Cost Complexity

Cost-effective

Even Consistency

Security

No native file system

Easy to integrate

Cost for data transfer

Scalability

Security misconfiguration

Reliable & Durable

= risk

not diff. with local

AWS Storage

Object Storage - Amazon S3 Simple Storage Service

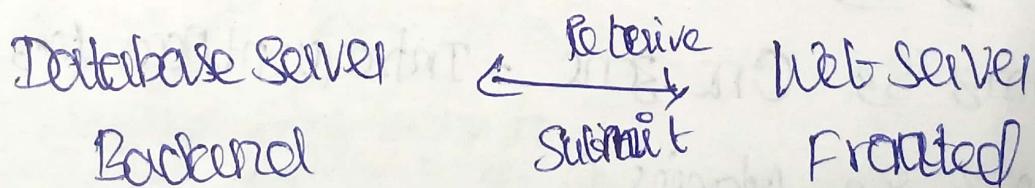
Block Storage - Amazon EBS (E Block Store)

File Storage - Amazon EFS (E File Sys)

Archival Storage - Amazon S3 Glaciers

Hybrid Storage - AWS Storage Gateway

Internet Gateway → 2 way communication



NAT Gateway 1 way communication

