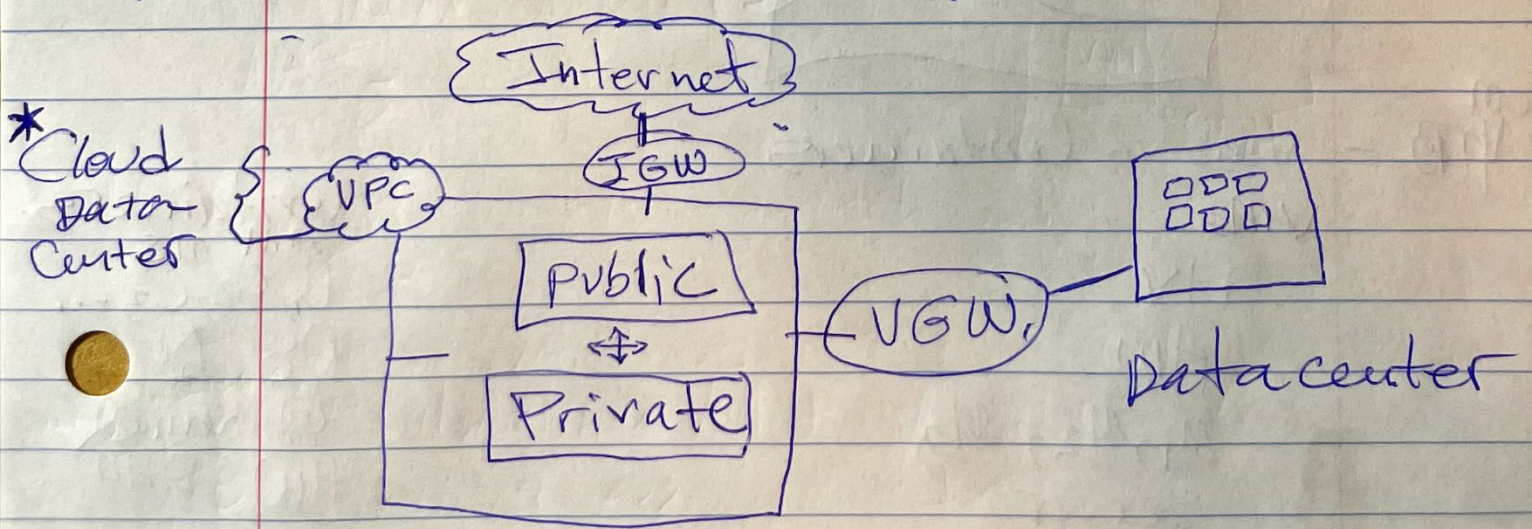William Prado
07/17/2025
Cloud Computing

YTB - Virtual Desktop Infrastructure (VDI) explained

IBM
YTB - what is ↑Desktop Virtualization?

### Cloud Computing
Faas       Daas → VDJ
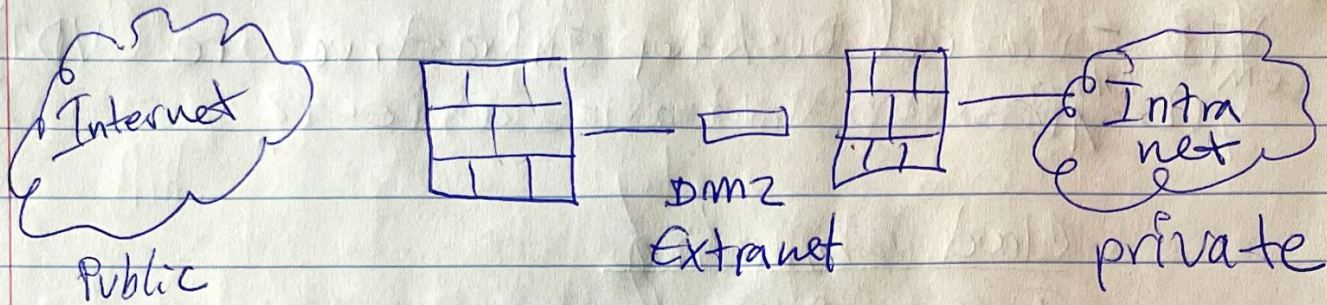Paas
Saas
Shared Responsibility model

### Virtualization.
hypervisor 1 & 2
\* VM = software file

### VM network connection
Bridge
NAT
host-based.

Virtual Private Cloud (UPC)       virtual Private Cloud
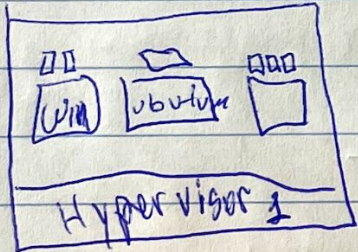
YTB AWS SA whiteboarding | Amazo/VPC

\* Cloud Data Center {

W Illian Prado
07/17/25

Internet — Public

DMZ Extranet
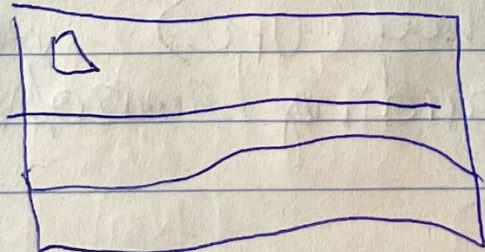
Intranet — private

**Powercert video**
YTB. Virtual private Cloud (VPC) Explained

Do you prefer virtual machine

**Byte Byte Go**
YTB - Big misconception: Bare metal, VMs or Containers



Hypervisor 1

Virtualization



**IBM**
YTB - Vms vs Containers

VMs

   HV

   HW

   $M_1, M_2, M_3$

   Server

Containers
AM ms
$C_1, C_2, C_3 \ldots$
OS
Kernel
HW

Prof. Messer
YTB —Cloud infrastructure

Function

web Browser
browse google
Safari
Firefox
Edge

API

Task
process

MySQL

customer

product

employees
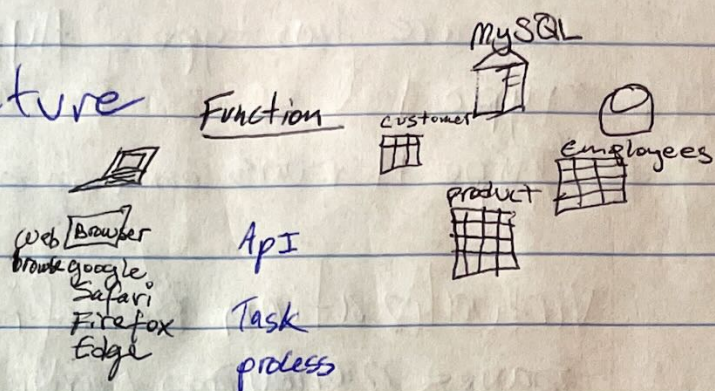
Power Cert videos
YTB Cloud computing explained.
— a big building w/ servers

server

e-mail

Virtualization allow you to have multiple
virtual machine in one computer.

Inside a google data center
crash car —

Digital cloud
YTB AWS shared responsibility model.

CSP
ISP
MSP
MSSP

Sunny Classroom
YTB Virtualization: VM + Hypervisor
Power Cert video
YTB Virtualization Explained

There are two type of Hypervisor
Type I
Type II runs on top of existing operating System

Virtualization Benefits.
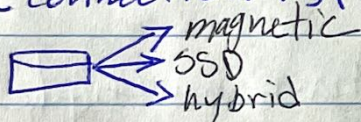Saves money on hardware + electricity
Saves     "     on floor space
   "      "         maintenance & management
Portability

sunny classroom
YTB Virtualization: bridge, nat & host-only-Virtual
machine connection type.

→ magnetic
→ SSD
→ hybrid

- Processor
- ram
- nic          moves ones to.
- Storage

Terbolor
PATA
SCSI
SATA
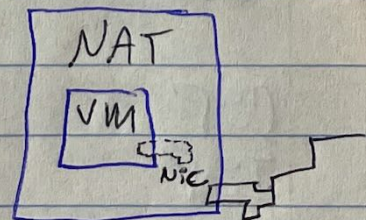Nvne - m2

Network adapter-
NAT-



Virtual switch - vSwitch

- What a coincidence, white watching the google
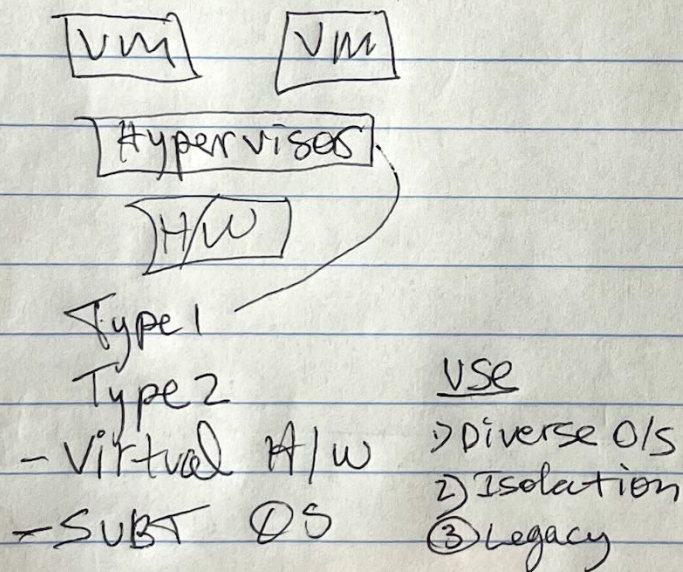data center video a recisviter from

Virtual private cloud (VPC) (AWS)
Virtual network Ms-Asus vnet
GC VPC

IBM
YTB Containers vs VMs: What's the difference?

## Virtual machine          ## Docker

[VM]    [VM]

[Hypervisor]              containers
                          OS
[H/W]                     —Docker Ensine

Type 1                    — Docker images
Type 2           USE              ↑
—Virtual H/W    1) Diverse O/S    Docker files
—SUBT OS        2) Isolation
                3) Legacy    —Docker containers

## Virtualization
What is API?
Application Programable interface