

# Recap

## 1. ARM Template

↳ Automation

- create any resources - on the fly

VM → tag (12 tags)

↳ VM, NW, storage, NSG ⇒ (12 resources)

when (automation)

↳ Template

↳ Extension (VM + SW + Plugin)

↓  
VM (Image) → (VMs)

## Extension

Azure

↳ Plugin

↳ most VM

↓  
Mongo, Node.js, Angular

## Template

1. VM (create), NW, storage

a. Automate/Extension

## NETWORKING

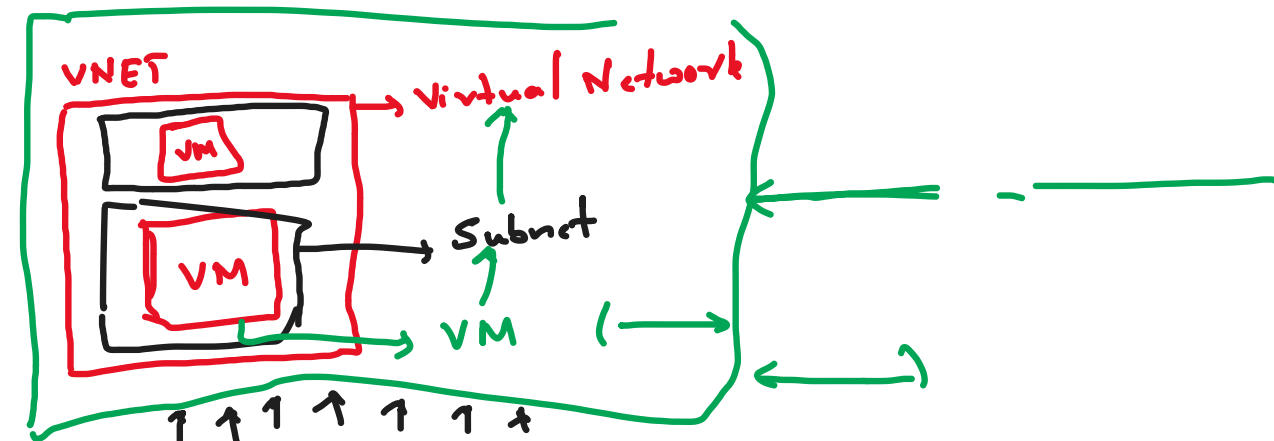
### Virtual Network

1. Public Cloud (Isolation)

Azure Portal → VM (globally)

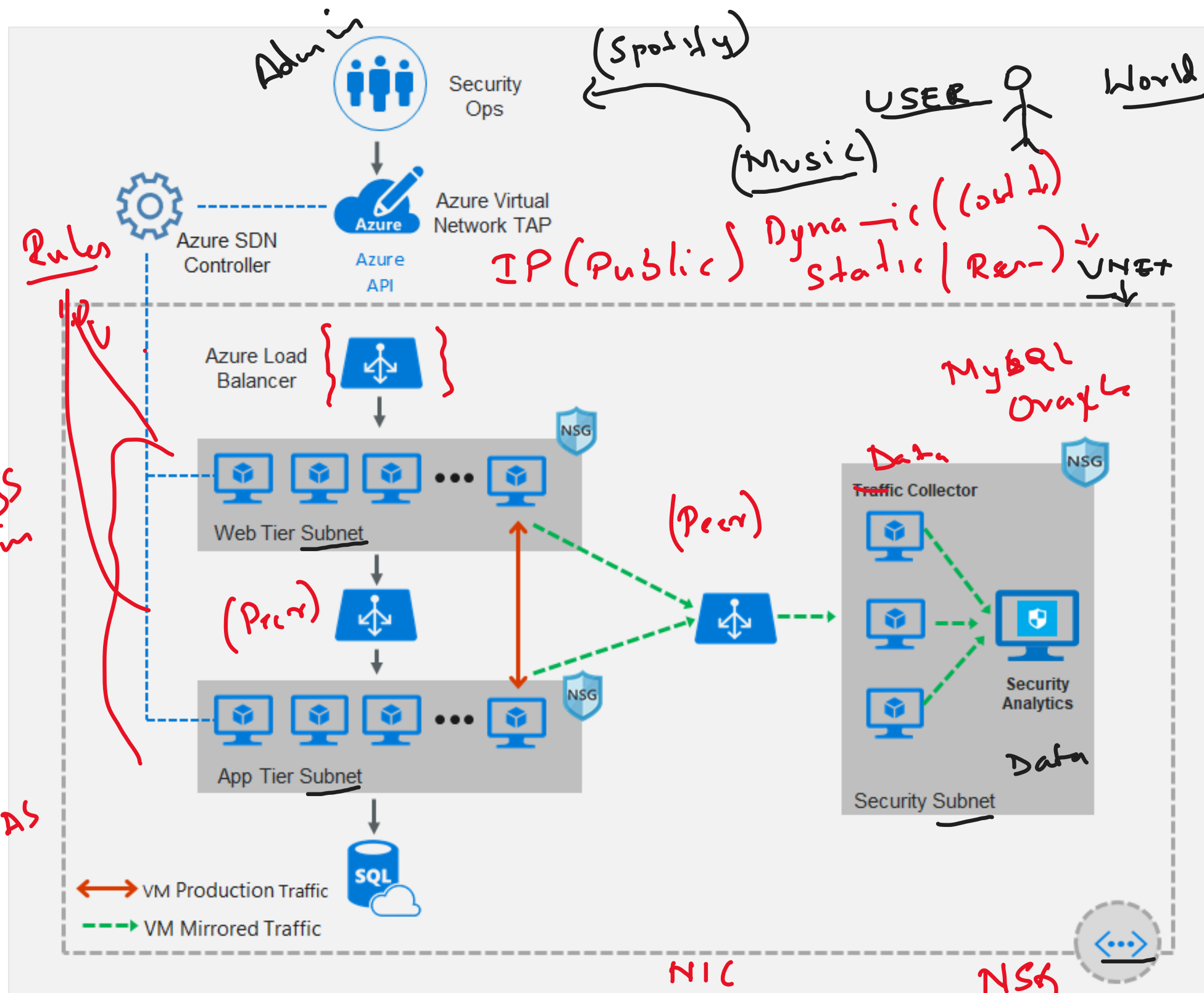
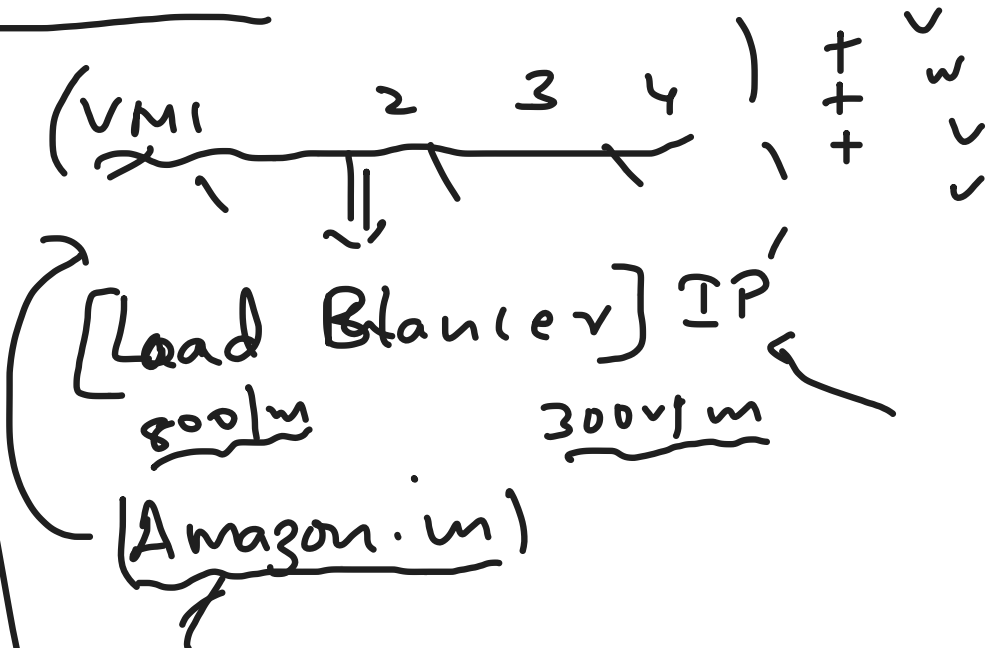
AWS/GCP/AZ

Networking (Virtual Network) (VNETs)



1. Isolation ⇒ (VM) → SN/VN ⇒ (VM) / Outside
2. Internet Access ⇒ (Accessible) → (Rule) → HDFS (Customer Portal)
3. Azure Resources ⇒ (Component Independent) → Resources  
tag [Storage VM, (load app)]
4. Vnet Connectivity ⇒ (Peer) → [Switches] → DC (Extension) (Hybrid)  
AZ - DC - AZ  
Public - DC - (Private)
5. On Premises Connectivity
6. Traffic Filtering ⇒ filtering (IP, port)
7. Routing (Customer/Network) → (Transfer)

## Scalable



USER VM  
↓ ↑  
L3 (NW) NSG

↓ ↑  
(12.0.0.10)

Web = Res

↓ ↑  
App =

↓ ↑  
Data VNET / Subnet

CIDR Range

0.0.0.0/0

12.0.1.1/16

{ 2.0.1.2 4  
12.0.1.3 5 }

IP

{ IP → NA  
3 → IP, 6 }

Last → Azure

(12.0.255 255)

Apache/nginx

Weblogic  
Tomcat/WAS