Azure Fundamentals - AZ-900

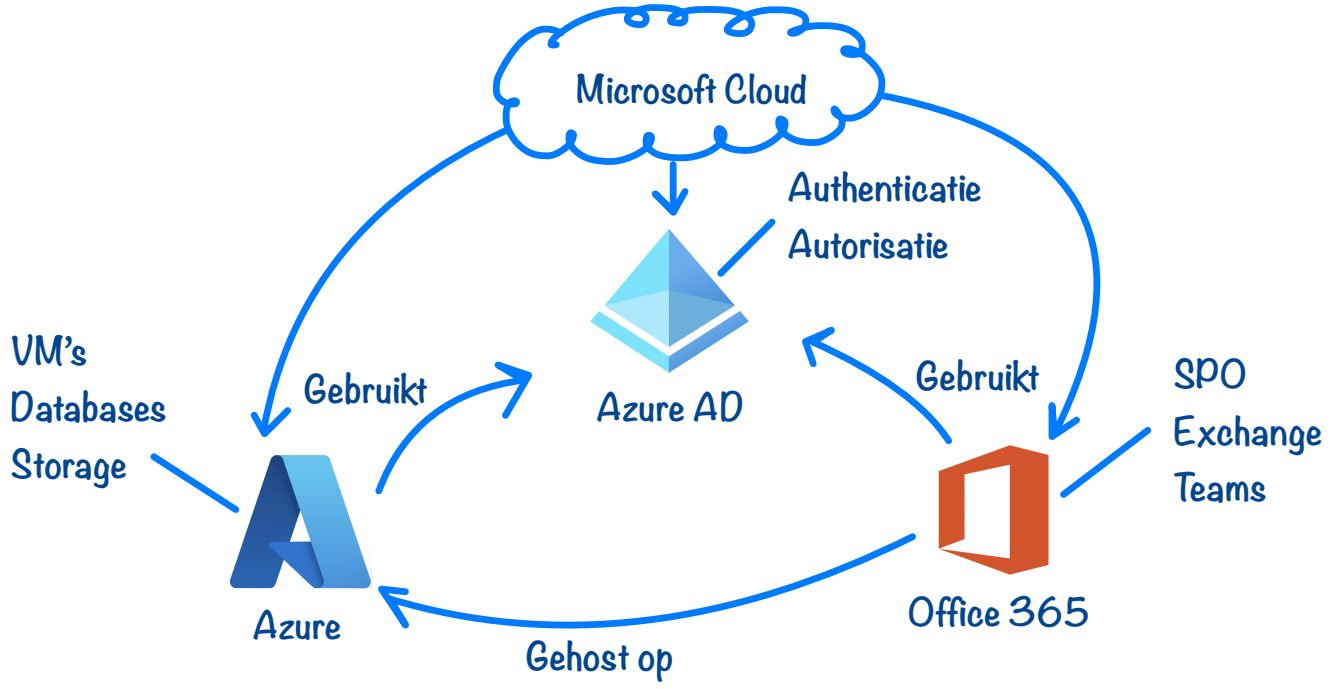
40 - 60 vragen

700 of hoger

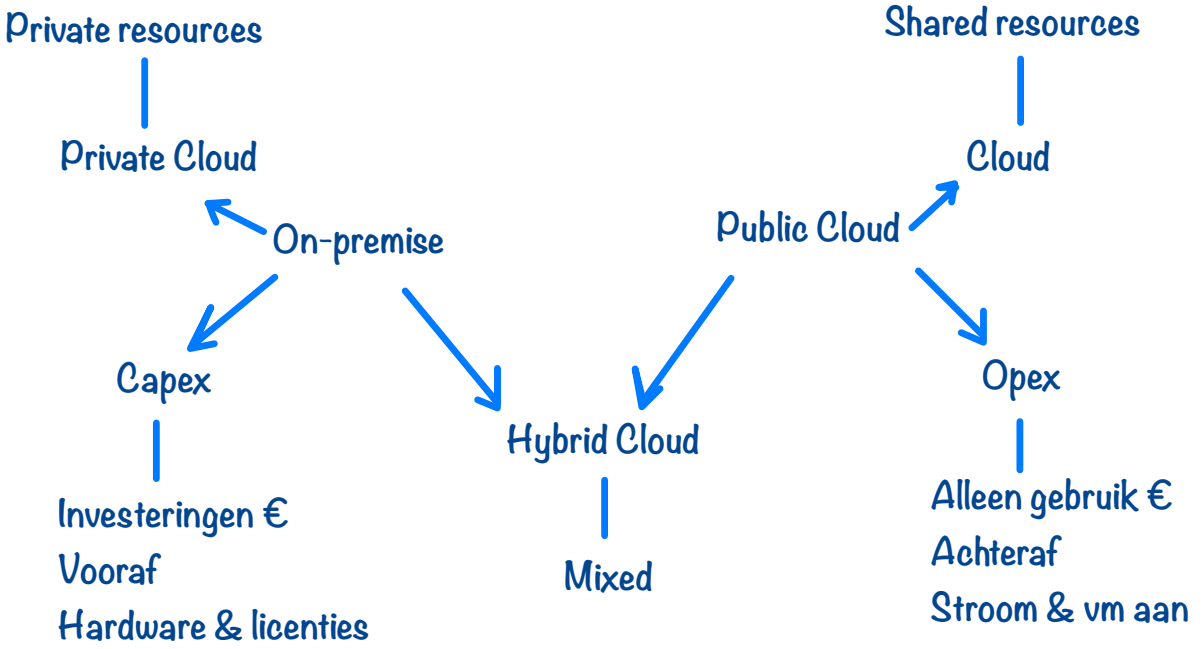
85 minuten

- Cloud concepts
- Azure core services
- Azure Core solutions and management tools
- General en network security
- Identity, governance, privacy en compliance
- Cost management en SLA

Microsoft Clouddiensten



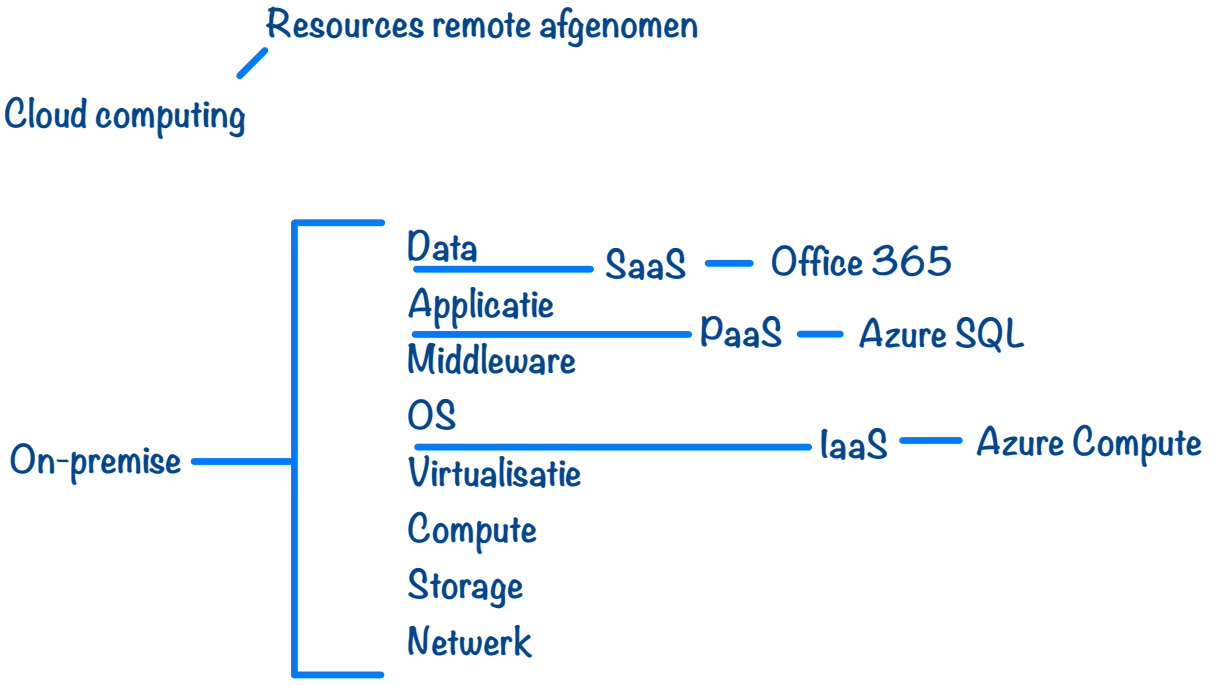
Cloud types

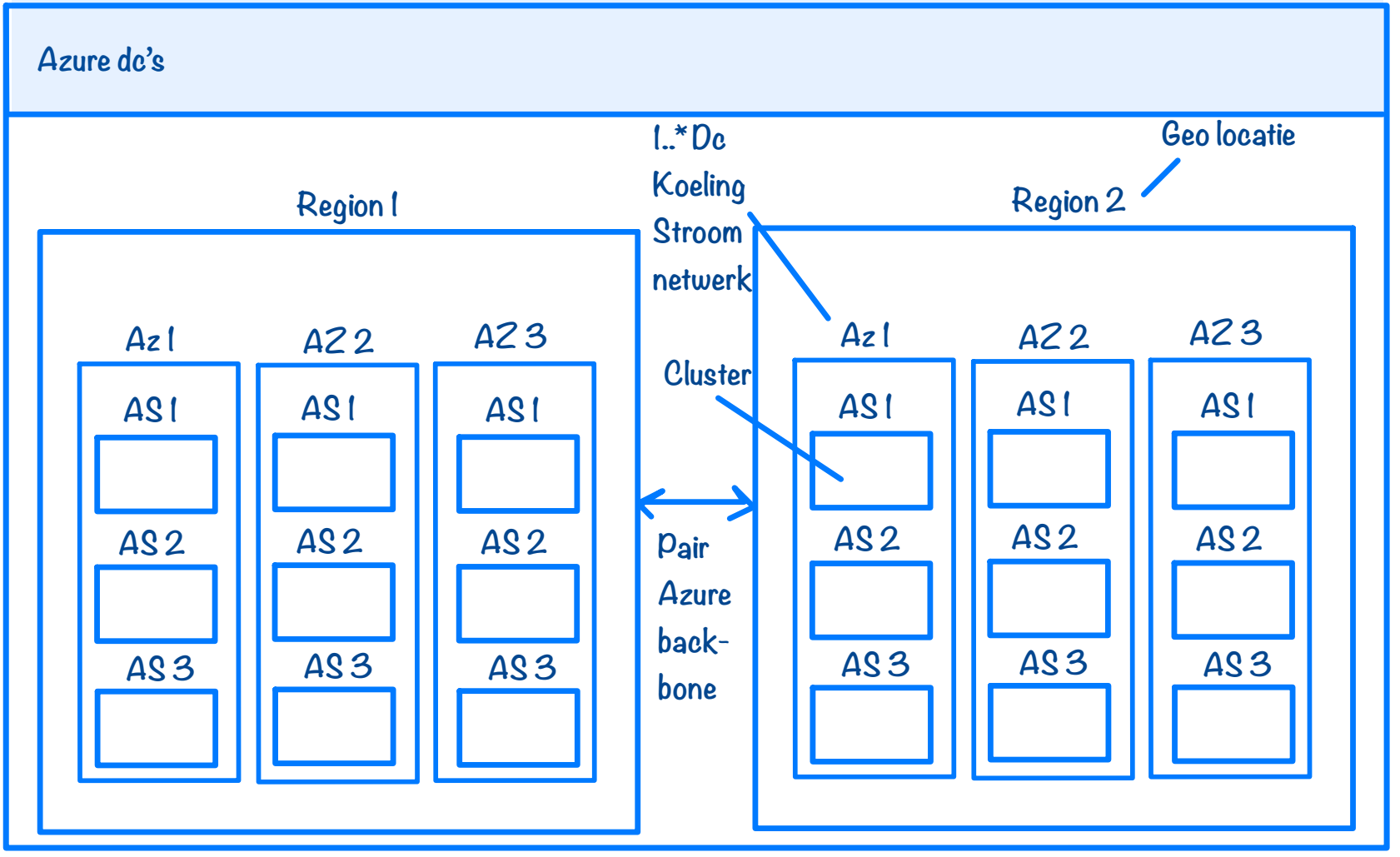

Private resources
Private Cloud
On-premise
Capex
Investeringen €
Vooraf
Hardware & licenties
Hybrid Cloud
Mixed
Shared resources
Cloud
Public Cloud
Opex
Alleen gebruik €
Achteraf
Stroom & vm aan

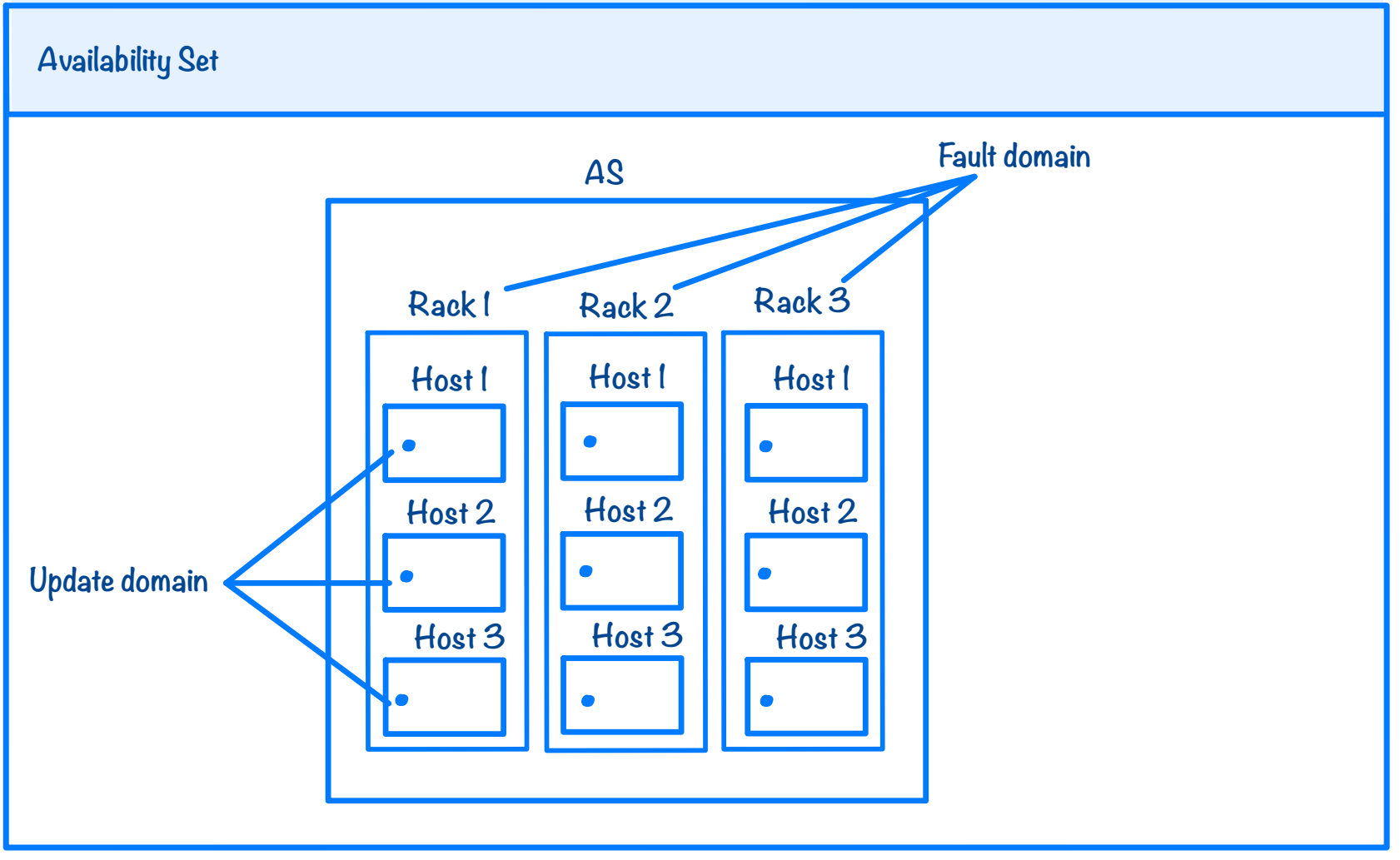
Concepten Cloud

Scalability	Up en down schalen
Elasticity	Schalen on-demand
Agility	Snel deployen
DR/redundancy	Hosting * dc's
Global reach	Wereldwijde dc's
Pay-as-you-go	Alleen gebruik €

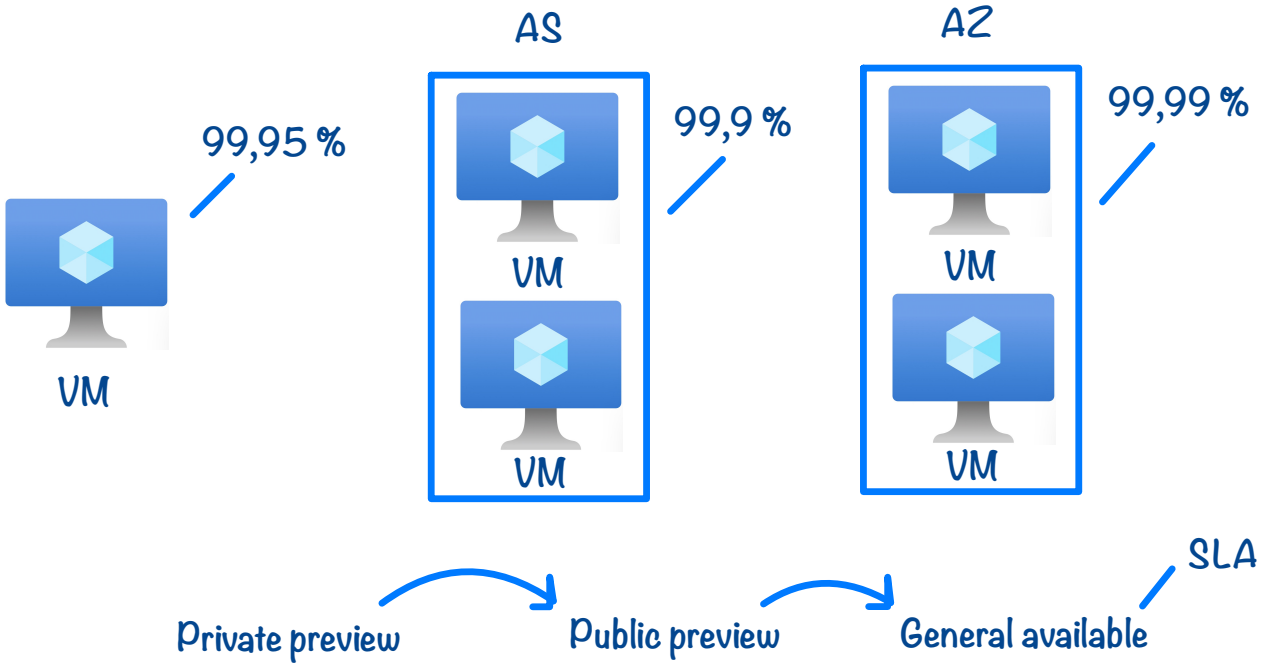
Cloud computing




Azure dc's
1..* Dc
Koeling
Stroom
netwerk
Geo locatie
Region 1
Region 2
Az 1
AZ 2
AZ 3
AS 1
AS 2
AS 3
Cluster
Pair
Azure
back-
bone


Availability Set
AS
Fault domain
Rack 1
Rack 2
Rack 3
Host 1
Host 2
Host 3
Update domain

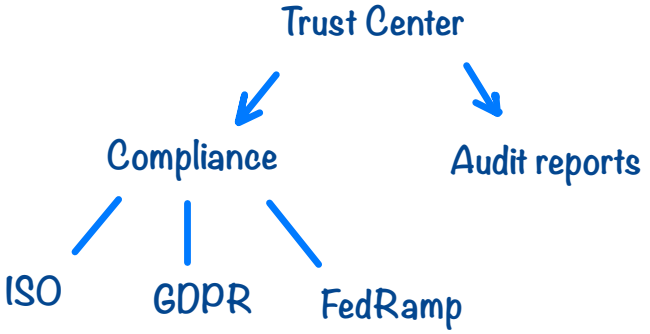
SLA & Feature releases

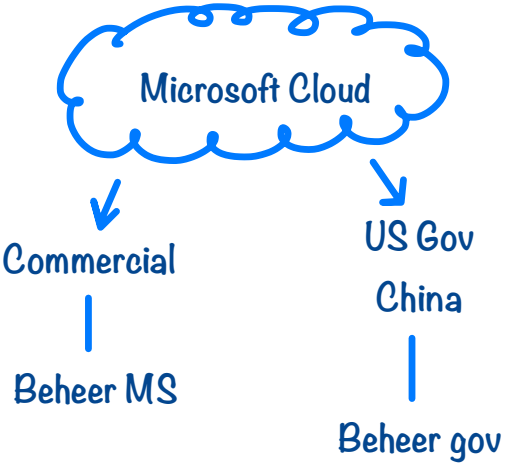


Kosten

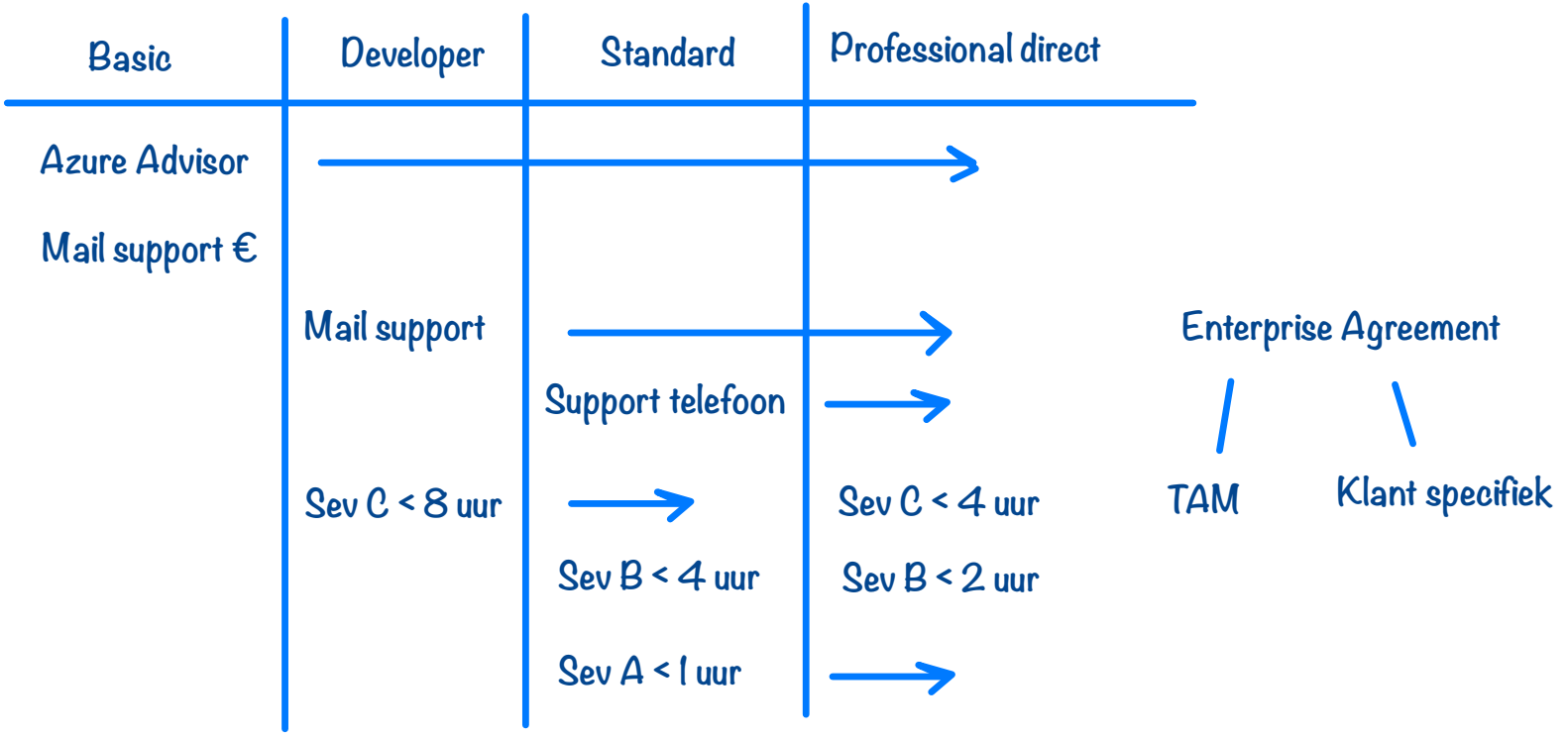
- Pricing calculator
  - Reports
  - Per service / sku
  - Gebruik
- TCO calculator
  - On-prem vs Cloud
  - Stroom
  - Hardware
  - Onderhoud
  - Reports
- Cost Management
  - Analyse
  - Graphs
  - Budgets

Compliance

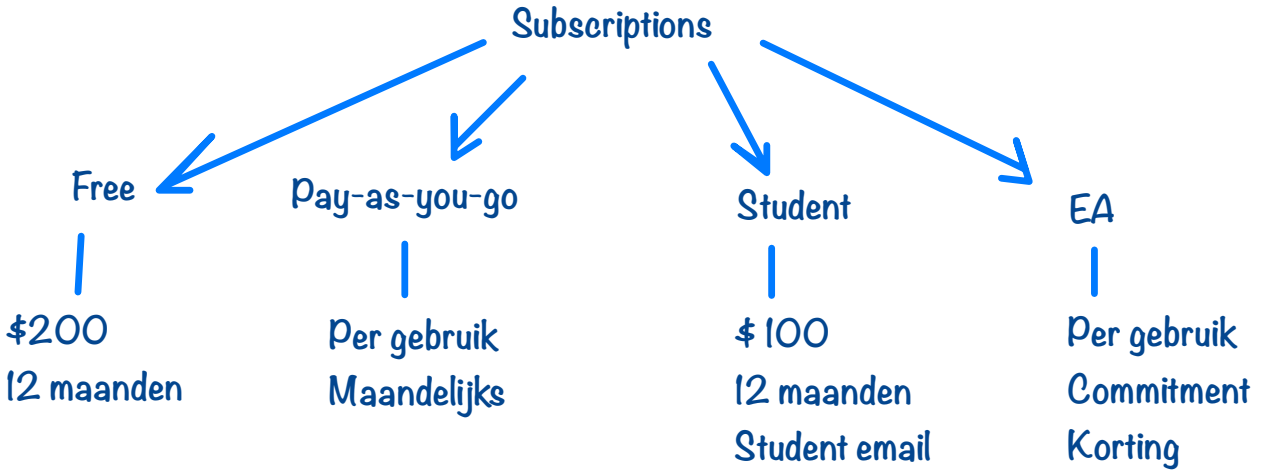

Trust Center
Compliance
Audit reports
ISO
GDPR
FedRamp


Microsoft Cloud
Commercial
US Gov
China
Beheer MS
Beheer gov

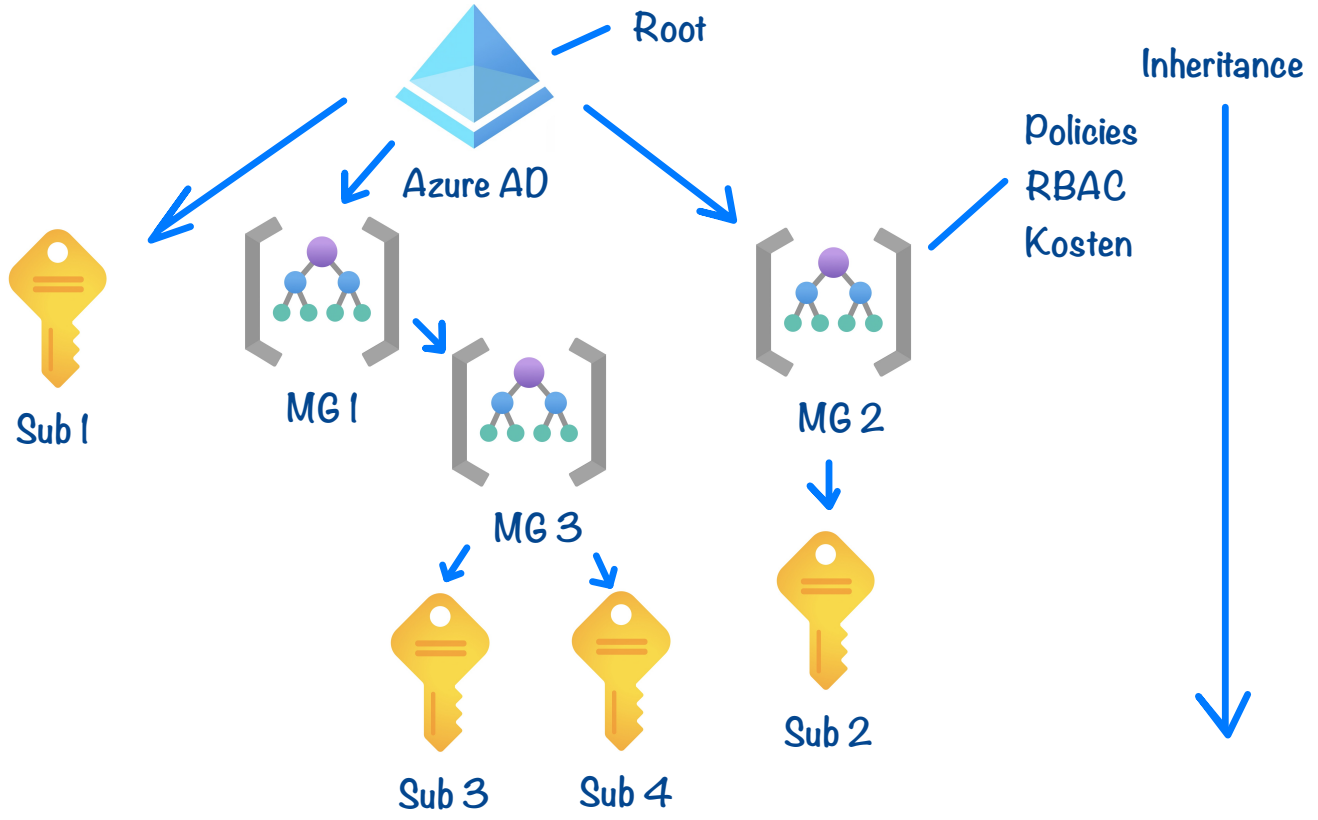
Support

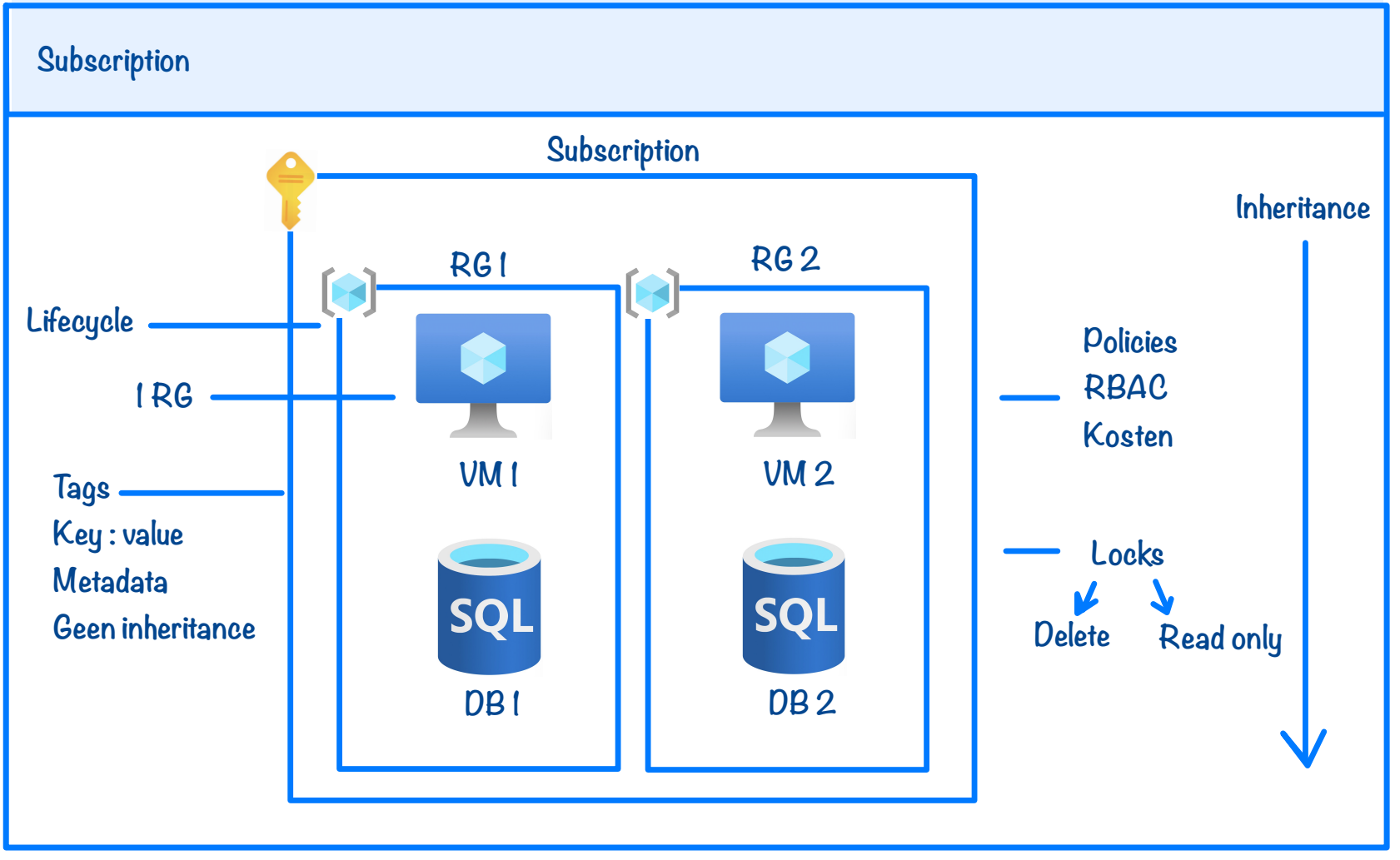

Basic
Developer
Standard
Professional direct
Azure Advisor
Mail support €
Mail support
Support telefoon
Sev C < 8 uur
Sev C < 4 uur
Sev B < 4 uur
Sev B < 2 uur
Sev A < 1 uur
Enterprise Agreement
TAM
Klant specifiek

Subscriptions

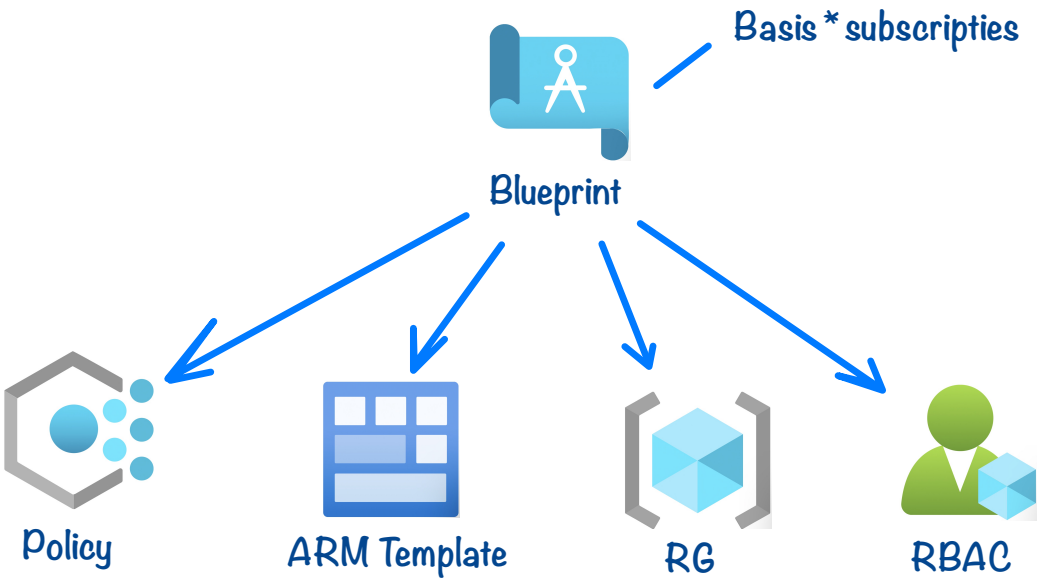


Hierarchie


Root
Azure AD
Inheritance
Policies
RBAC
Kosten
Sub 1
MG 1
MG 3
MG 2
Sub 3
Sub 4
Sub 2


Subscription
Subscription
RG 1
RG 2
Lifecycle
1 RG
Tags
Key : value
Metadata
Geen inheritance
VM 1
VM 2
SQL
SQL
DB 1
DB 2
Policies
RBAC
Kosten
Locks
Delete
Read only
Inheritance

Blueprints

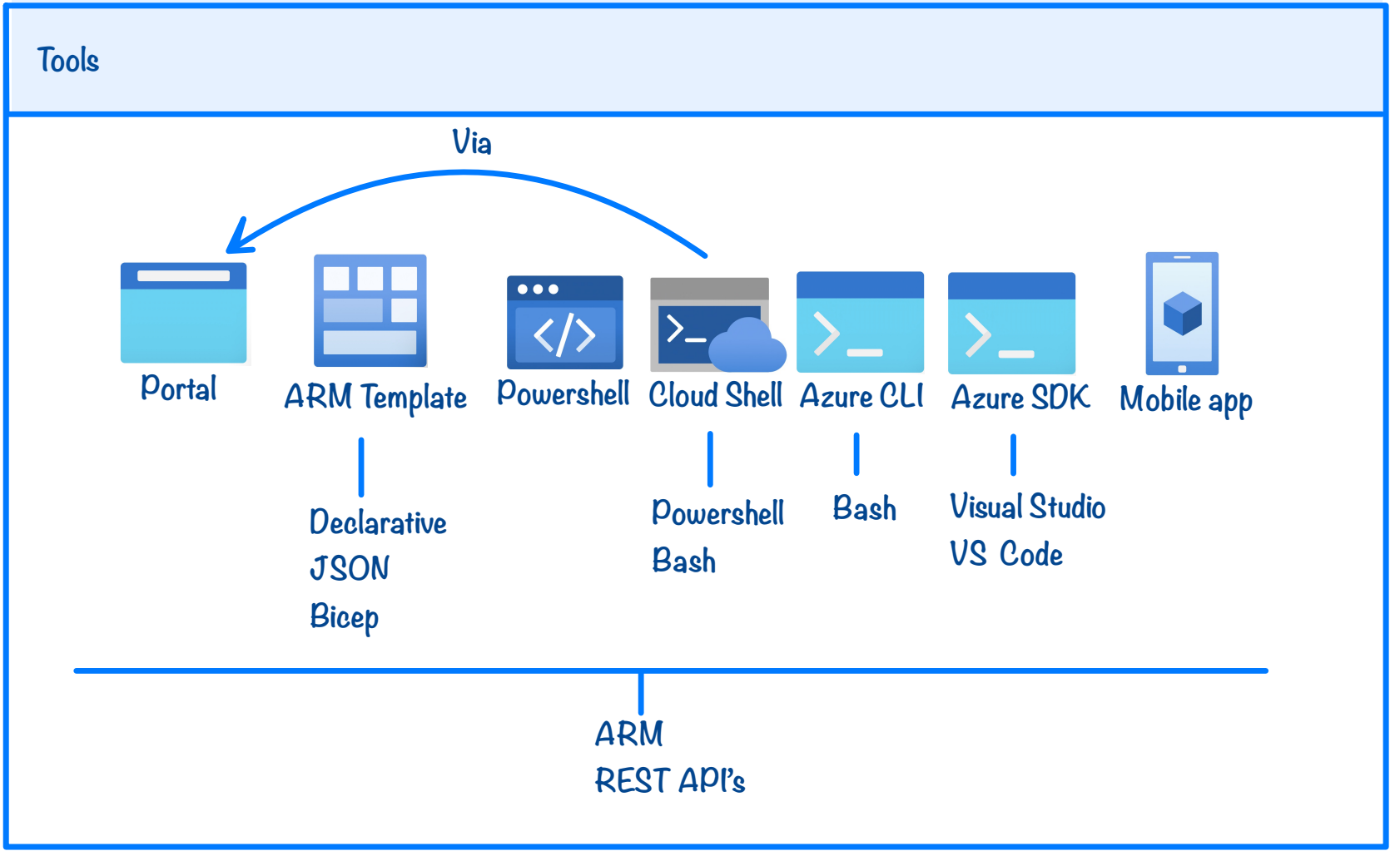


Resource Providers

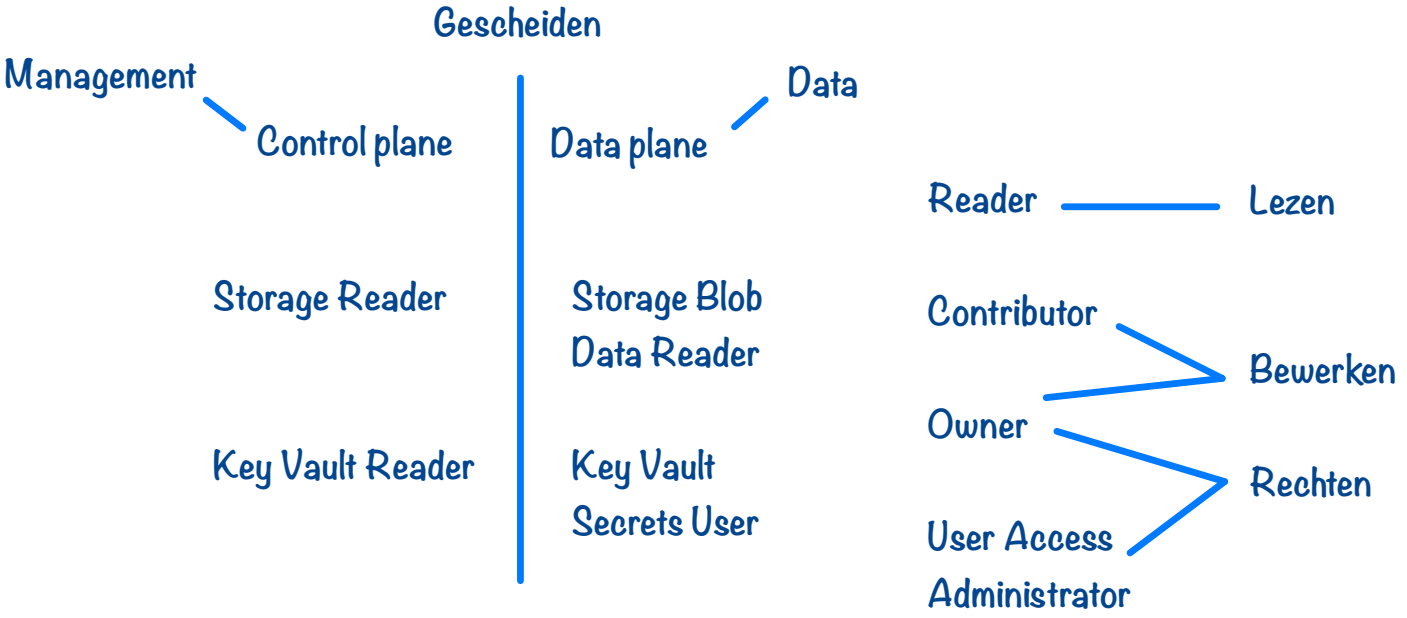
Subscription

Resource Providers

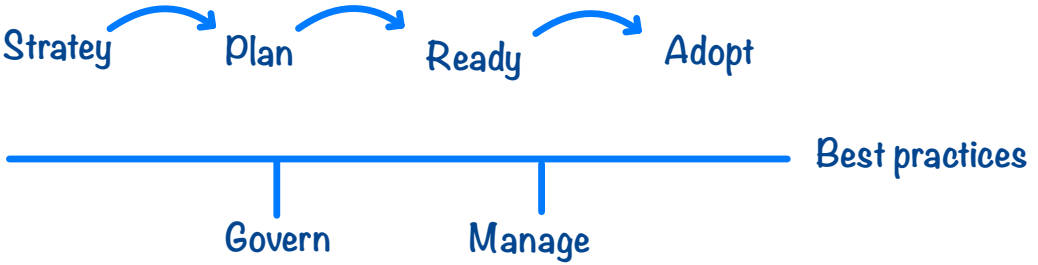
- Automatische registratie
- Eenmalig
- Per resource type
- Endpoint beschikbaar

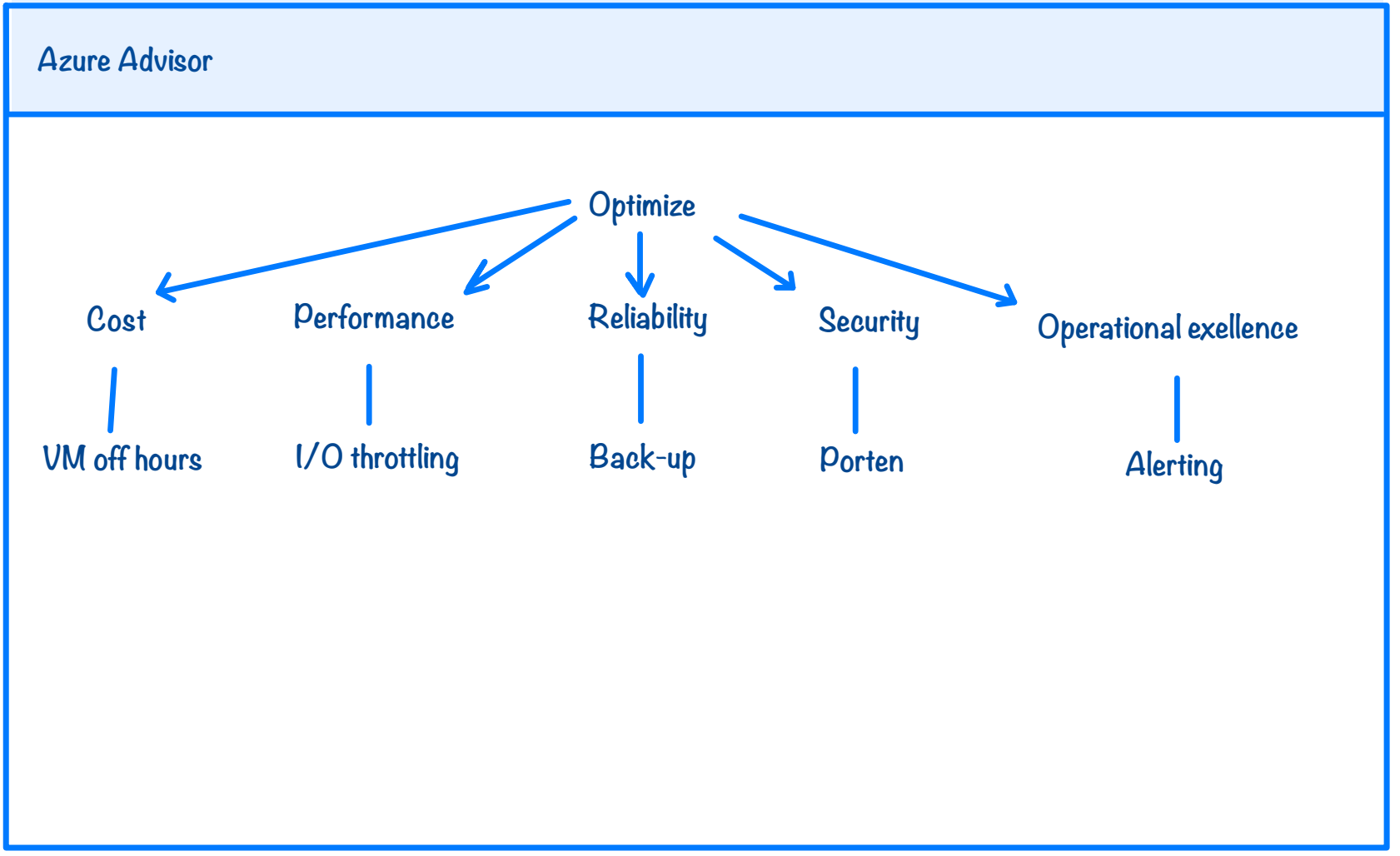

Tools
Via
Portal
ARM Template
Powershell
Cloud Shell
Azure CLI
Azure SDK
Mobile app
Declarative
JSON
Bicep
Powershell
Bash
Bash
Visual Studio
VS Code
ARM
REST API's

RBAC

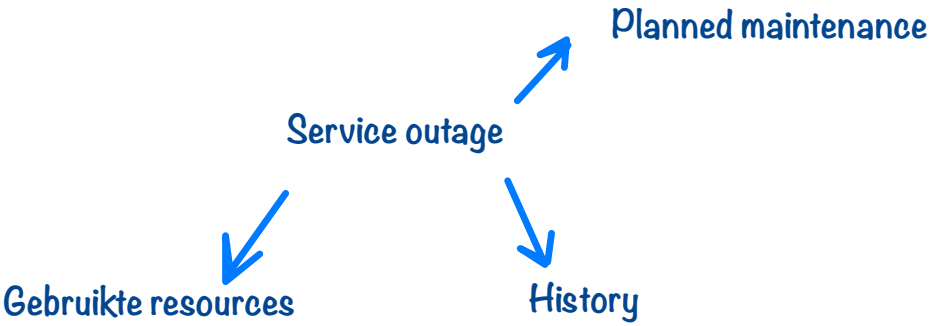

Gescheiden
Management
Control plane
Data
Data plane
Storage Reader
Storage Blob
Data Reader
Key Vault Reader
Key Vault
Secrets User
Reader
Lezen
Contributor
Bewerken
Owner
Rechten
User Access
Administrator

Cloud Adoption Framework

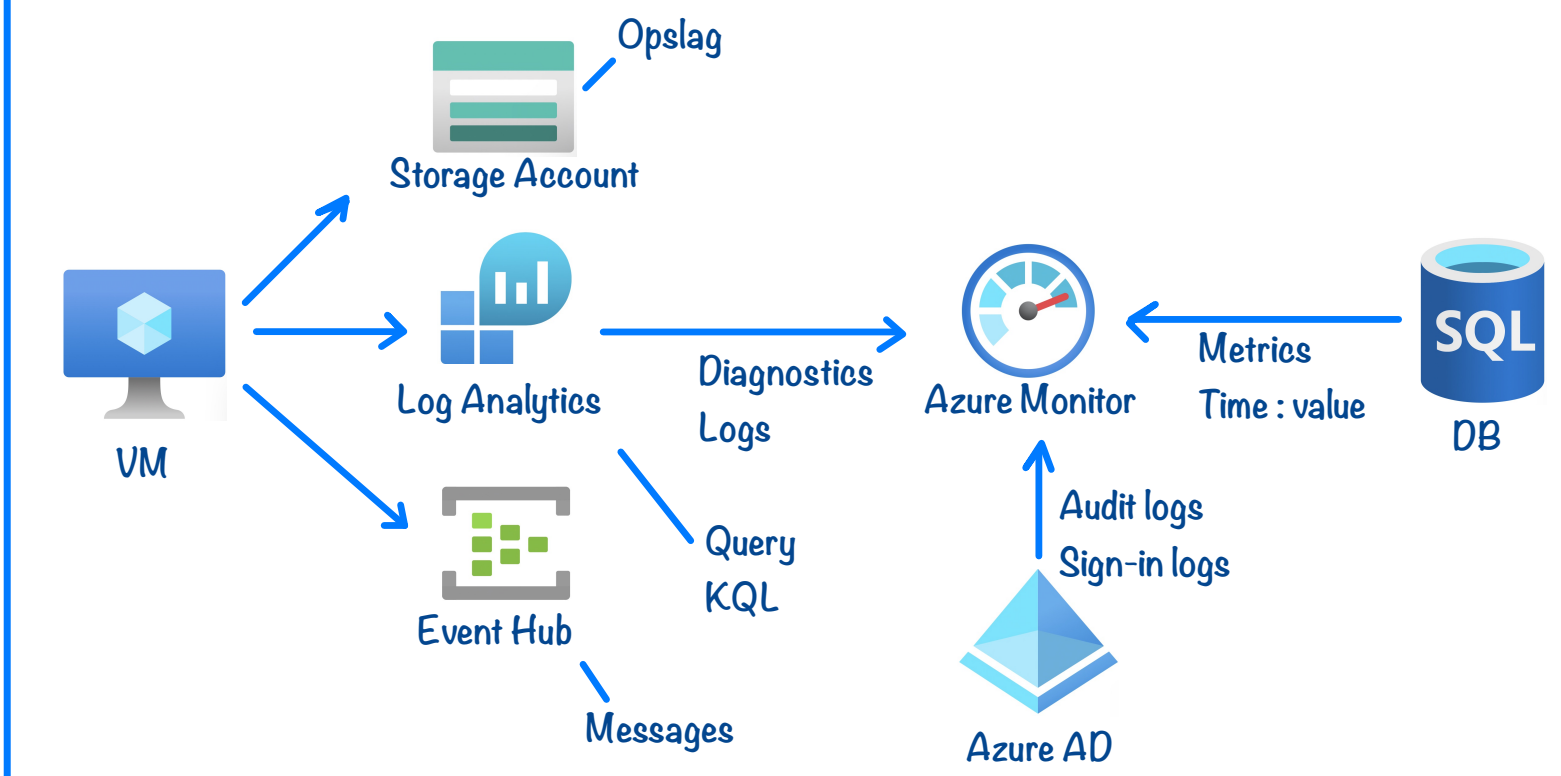



Azure Advisor
Optimize
Cost
Performance
Reliability
Security
Operational exellence
VM off hours
I/O throttling
Back-up
Porten
Alerting

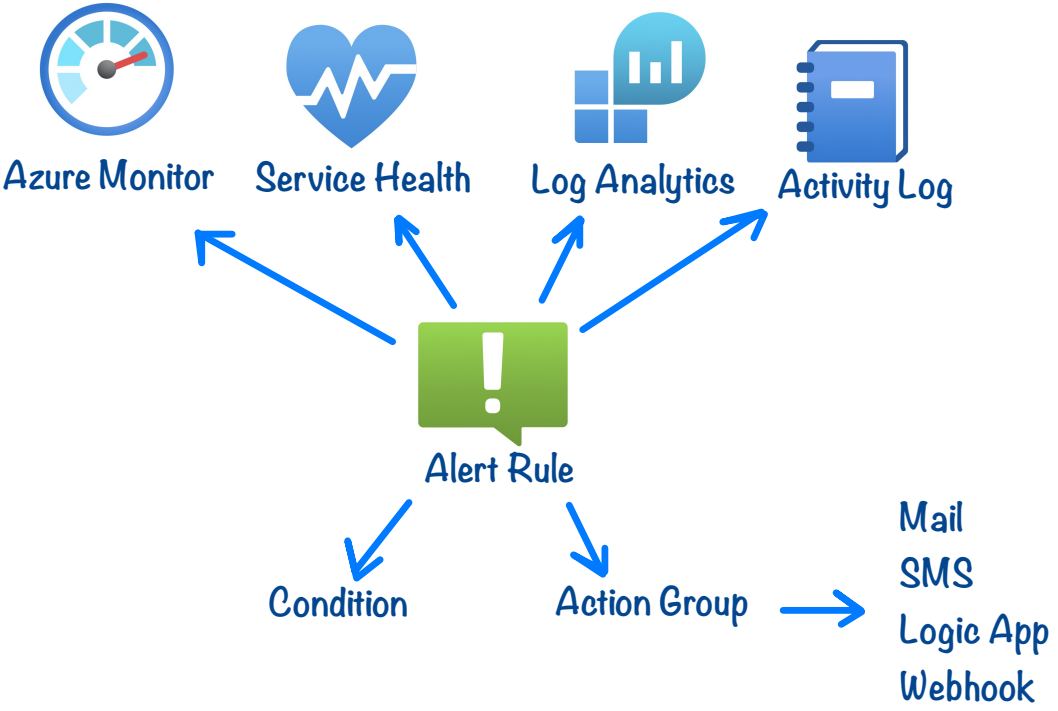
Service Health



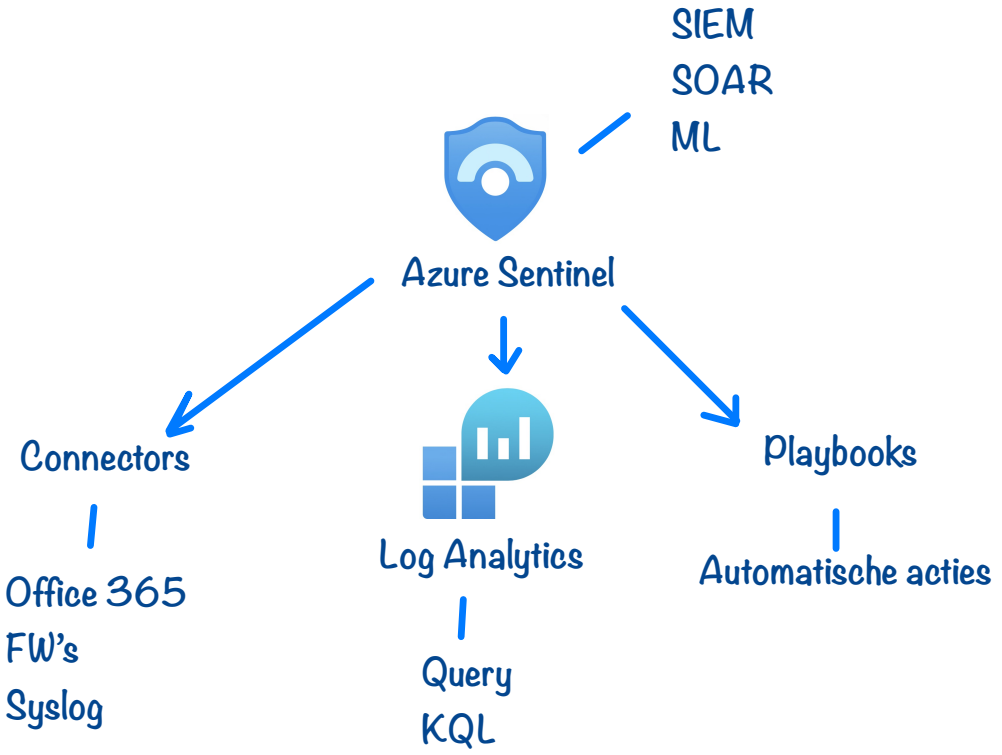
Azure Monitor



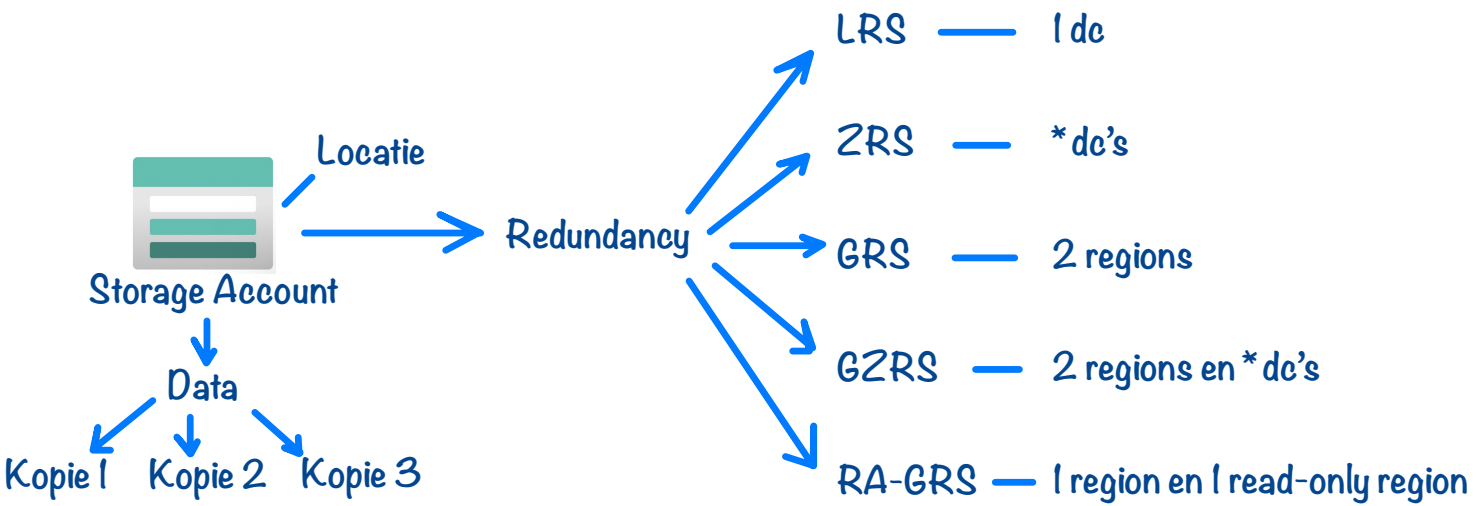
Alerts

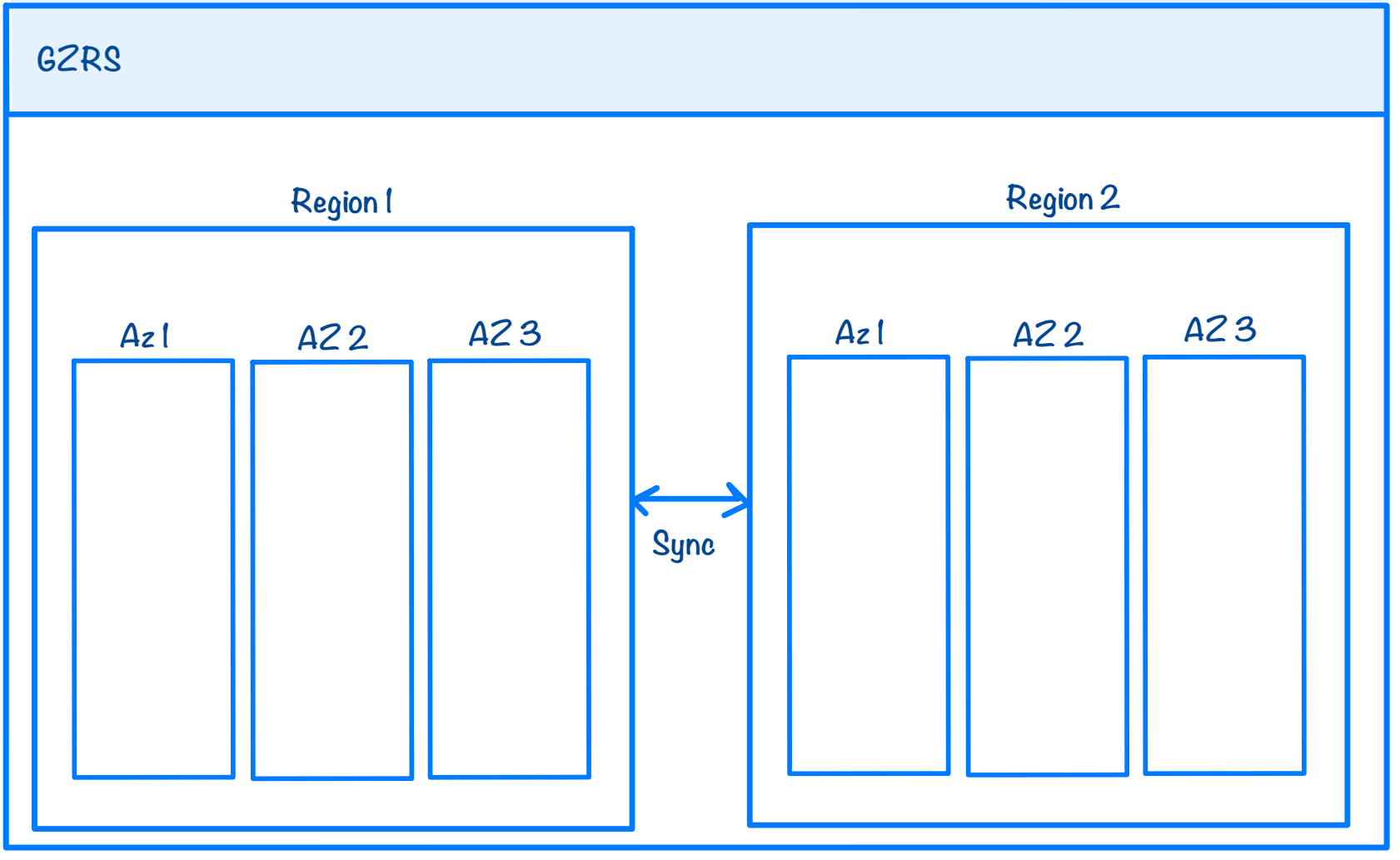

Azure Monitor
Service Health
Log Analytics
Activity Log
Alert Rule
Condition
Action Group
Mail
SMS
Logic App
Webhook

Azure Sentinel

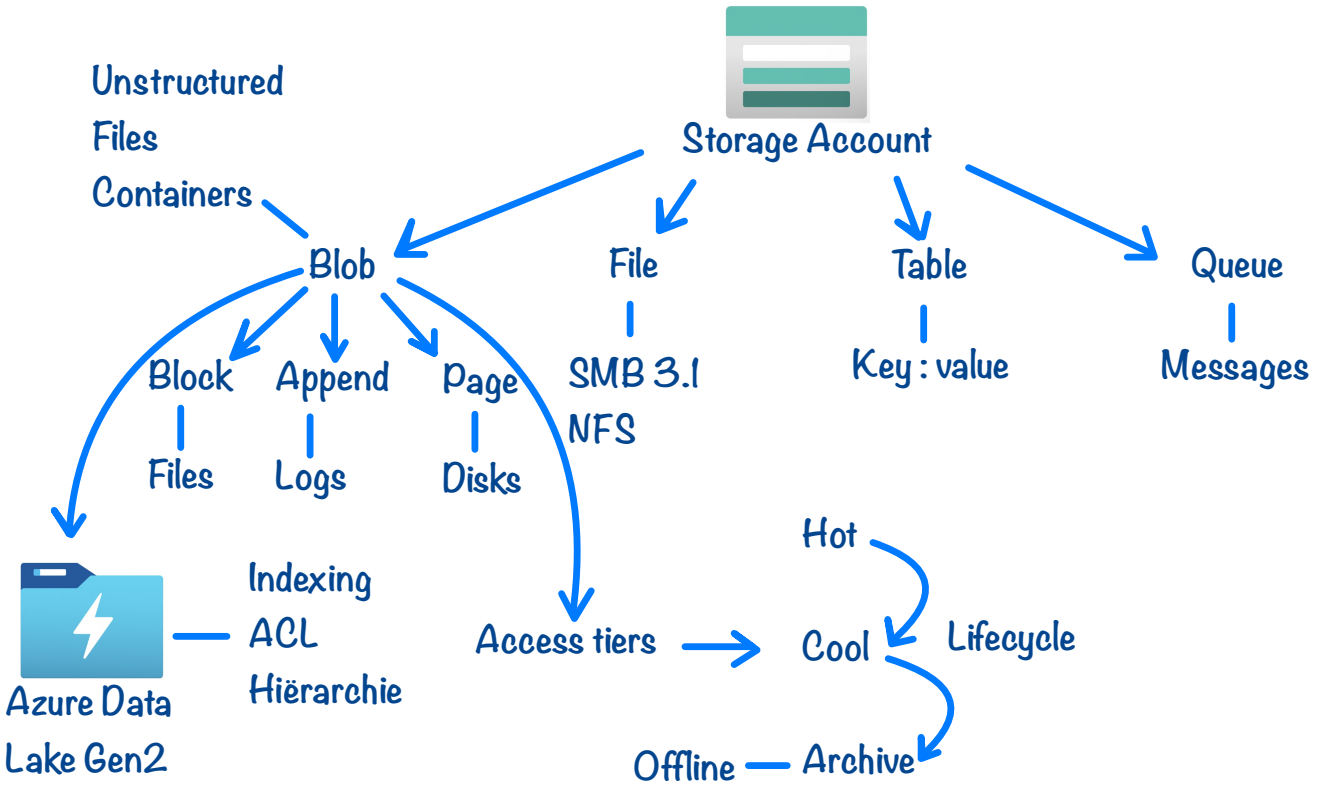


Storage Accounts

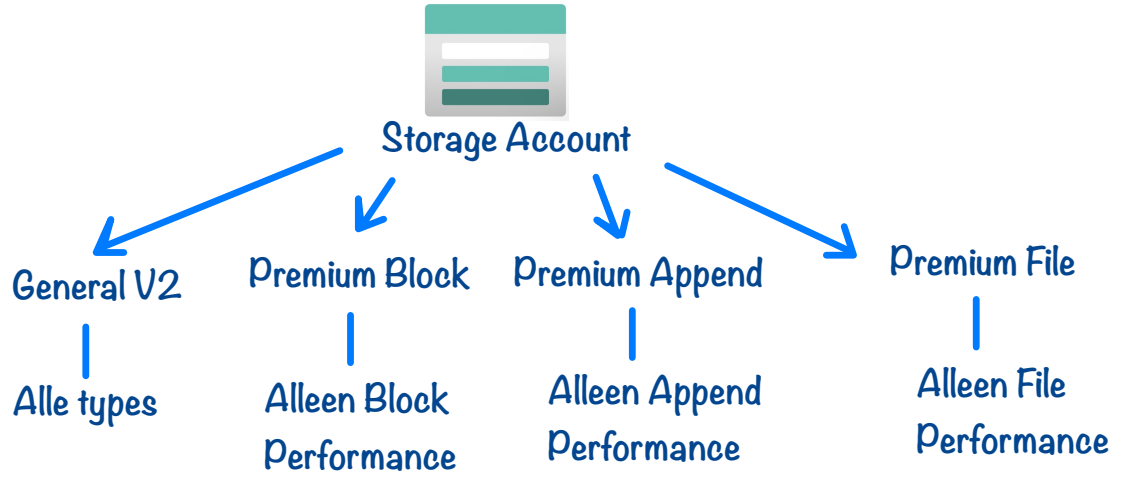


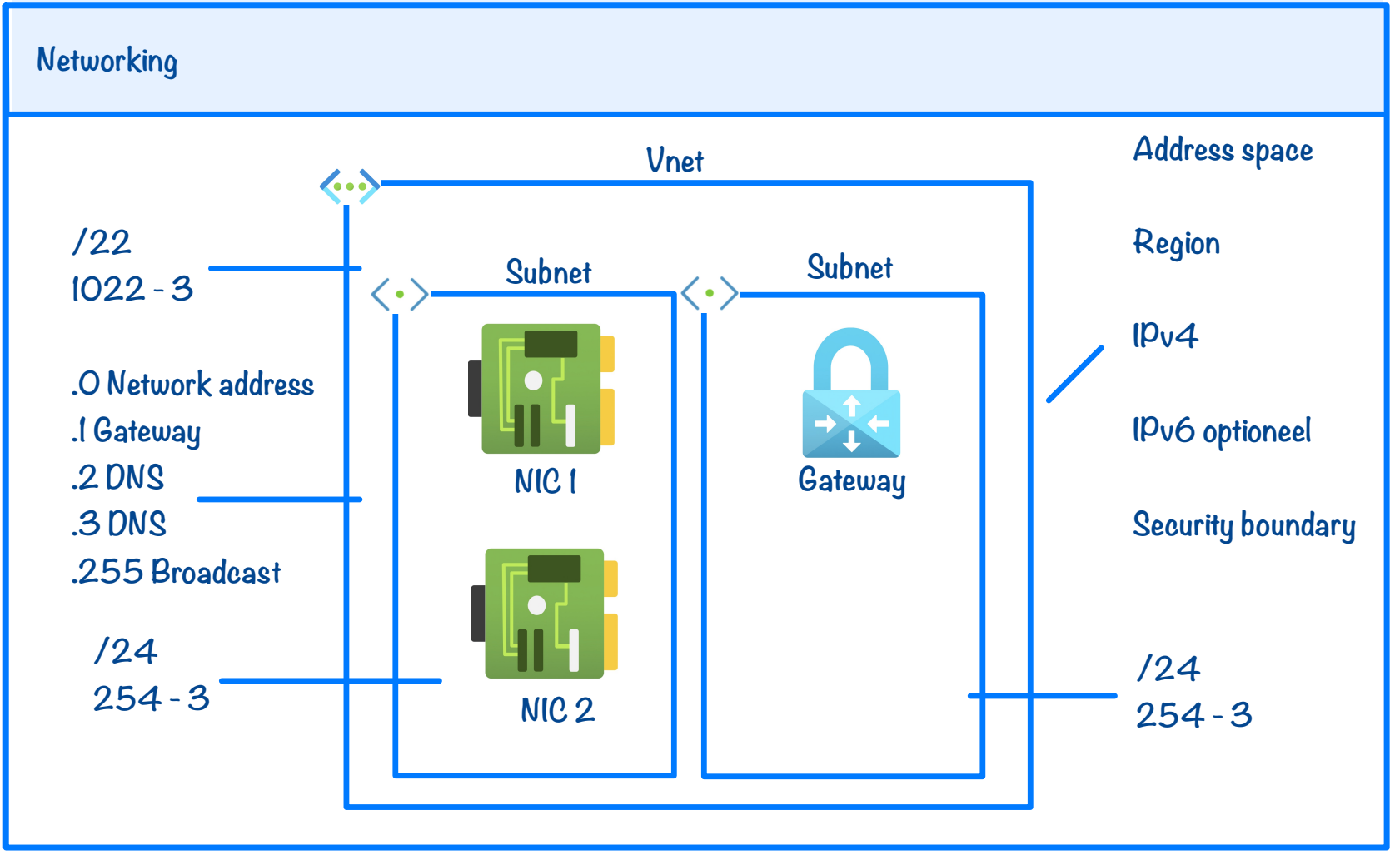

GZRS
Region 1
Az1
AZ2
AZ3
Sync
Region 2
Az1
AZ2
AZ3

Storage Account types

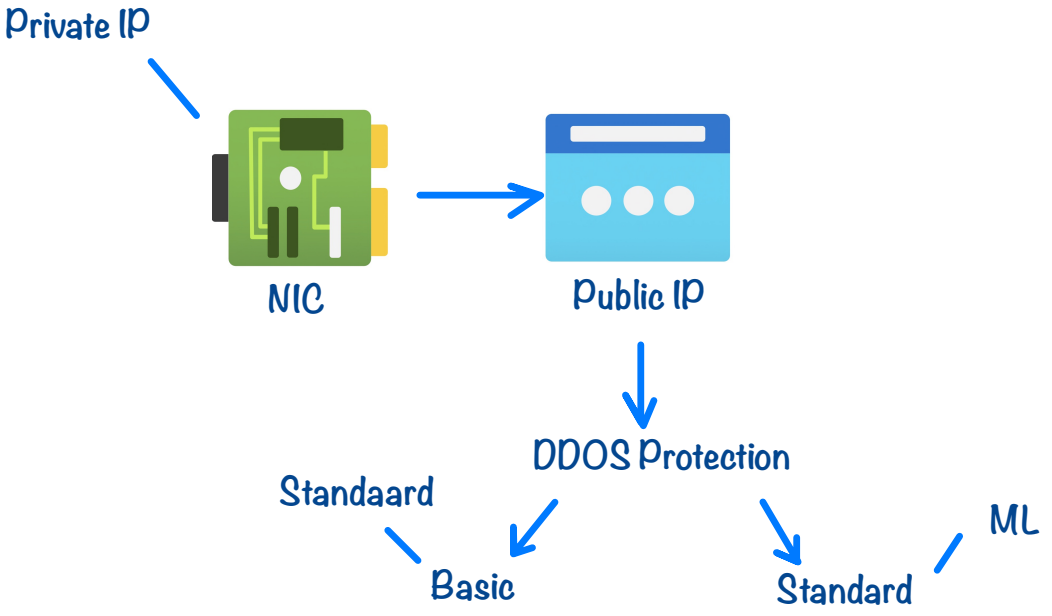


Storage Account SKU's

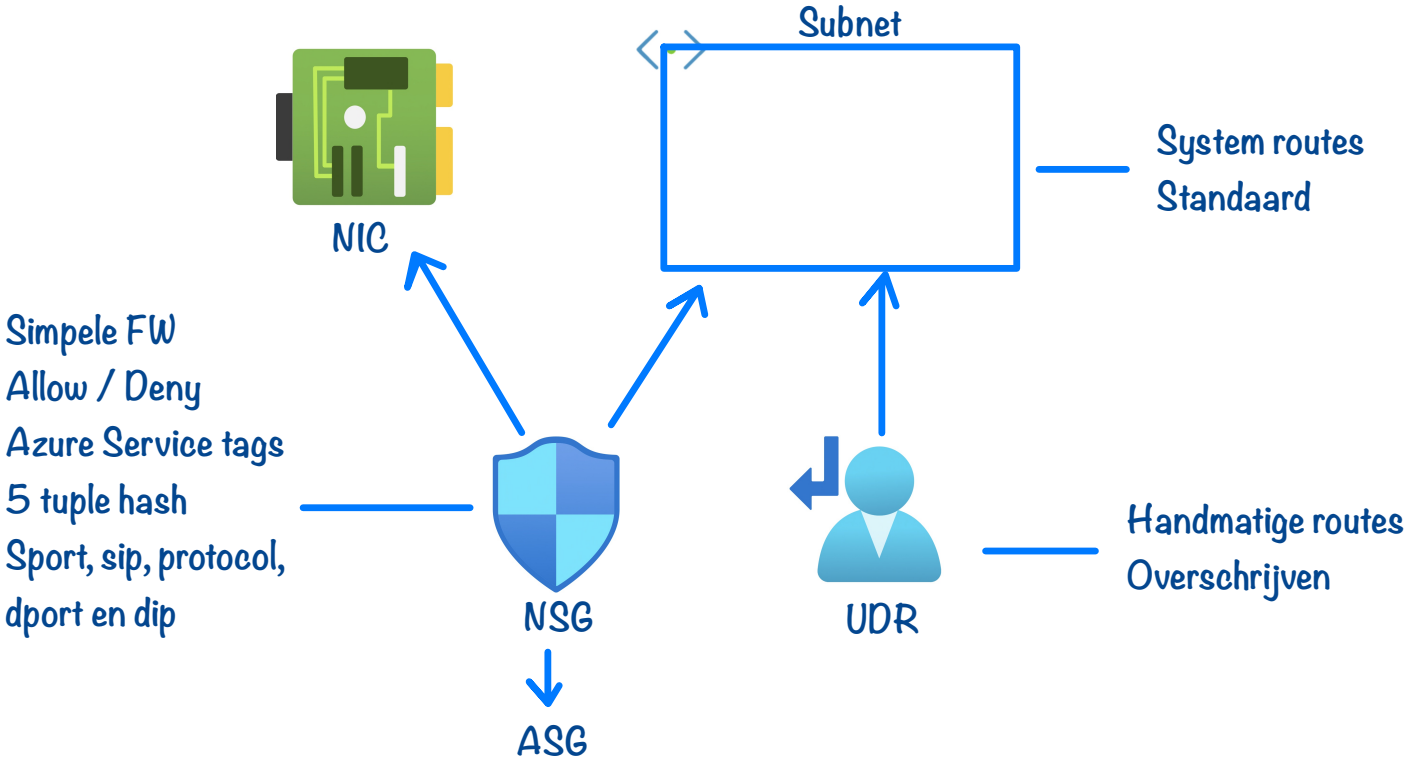



Networking
Vnet
Address space
/22
1022 - 3
Region
Subnet
Subnet
IPv4
.0 Network address
.1 Gateway
.2 DNS
.3 DNS
.255 Broadcast
NIC 1
Gateway
IPv6 optioneel
Security boundary
/24
254 - 3
NIC 2
/24
254 - 3

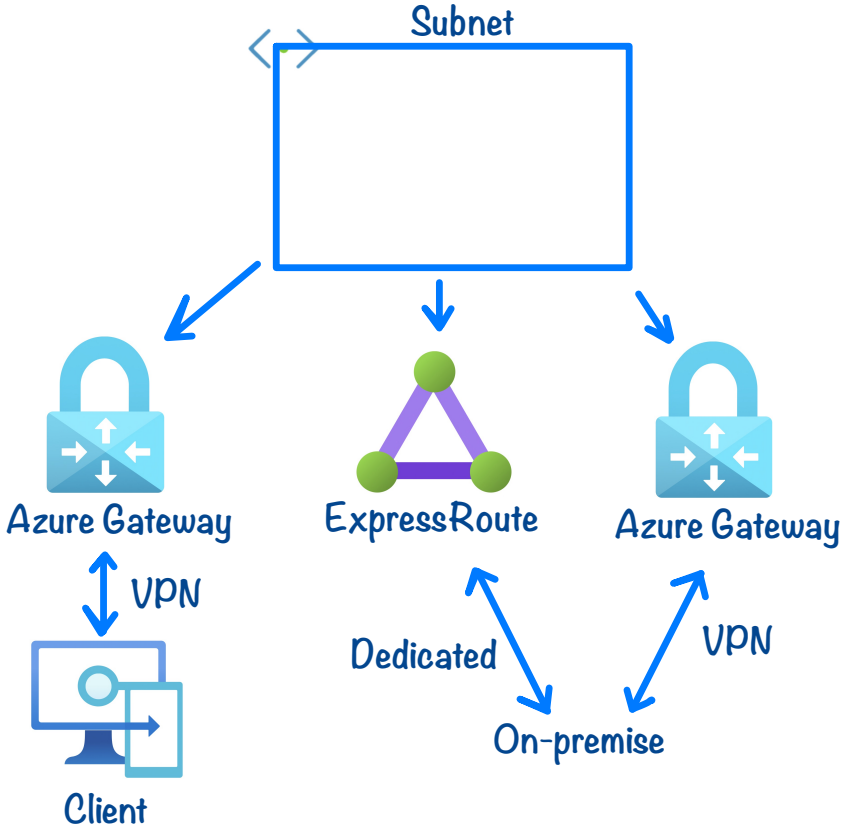
NIC's en DDOS

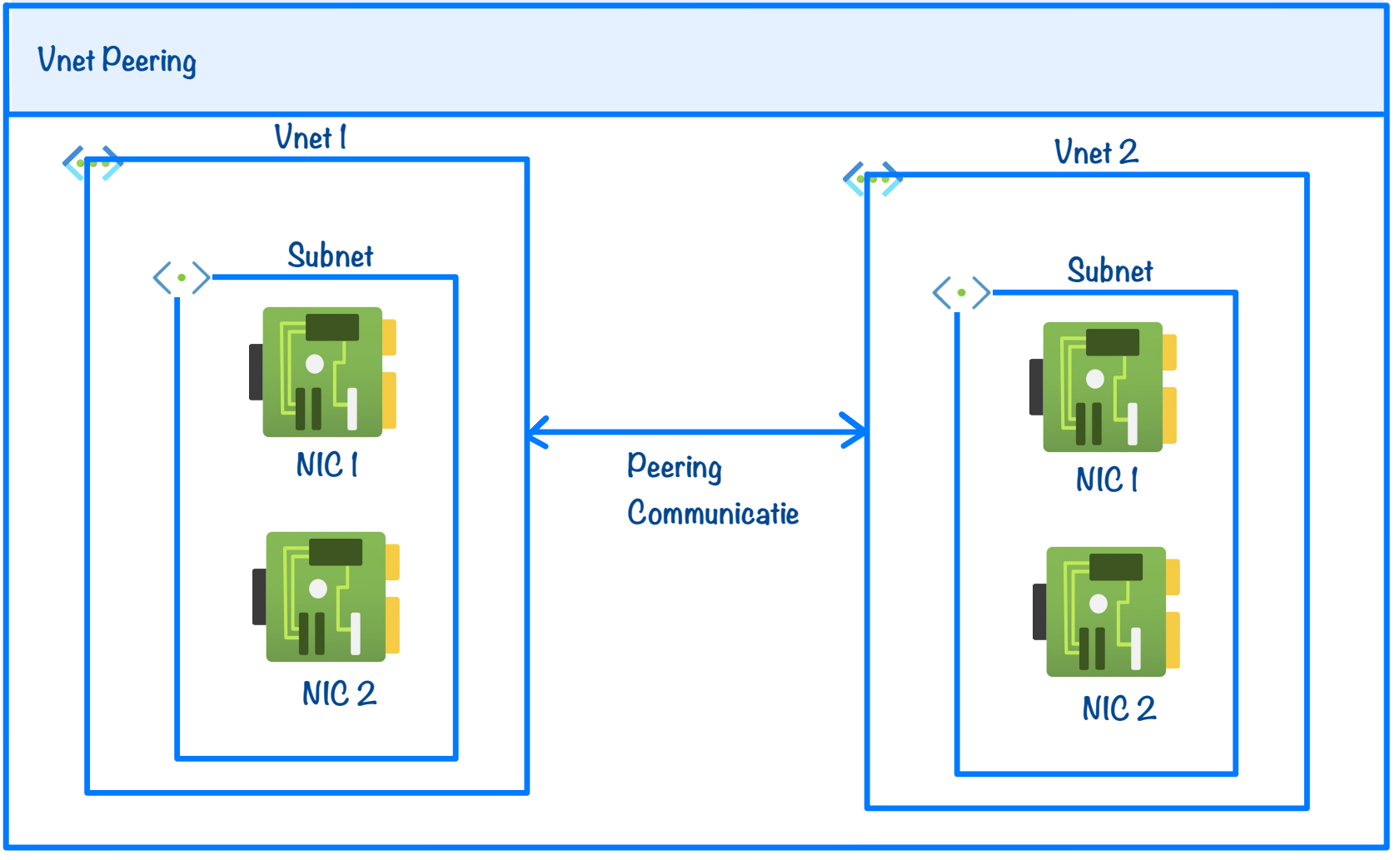

Private IP
NIC
Public IP
DDOS Protection
Standaard
Basic
Standard
ML

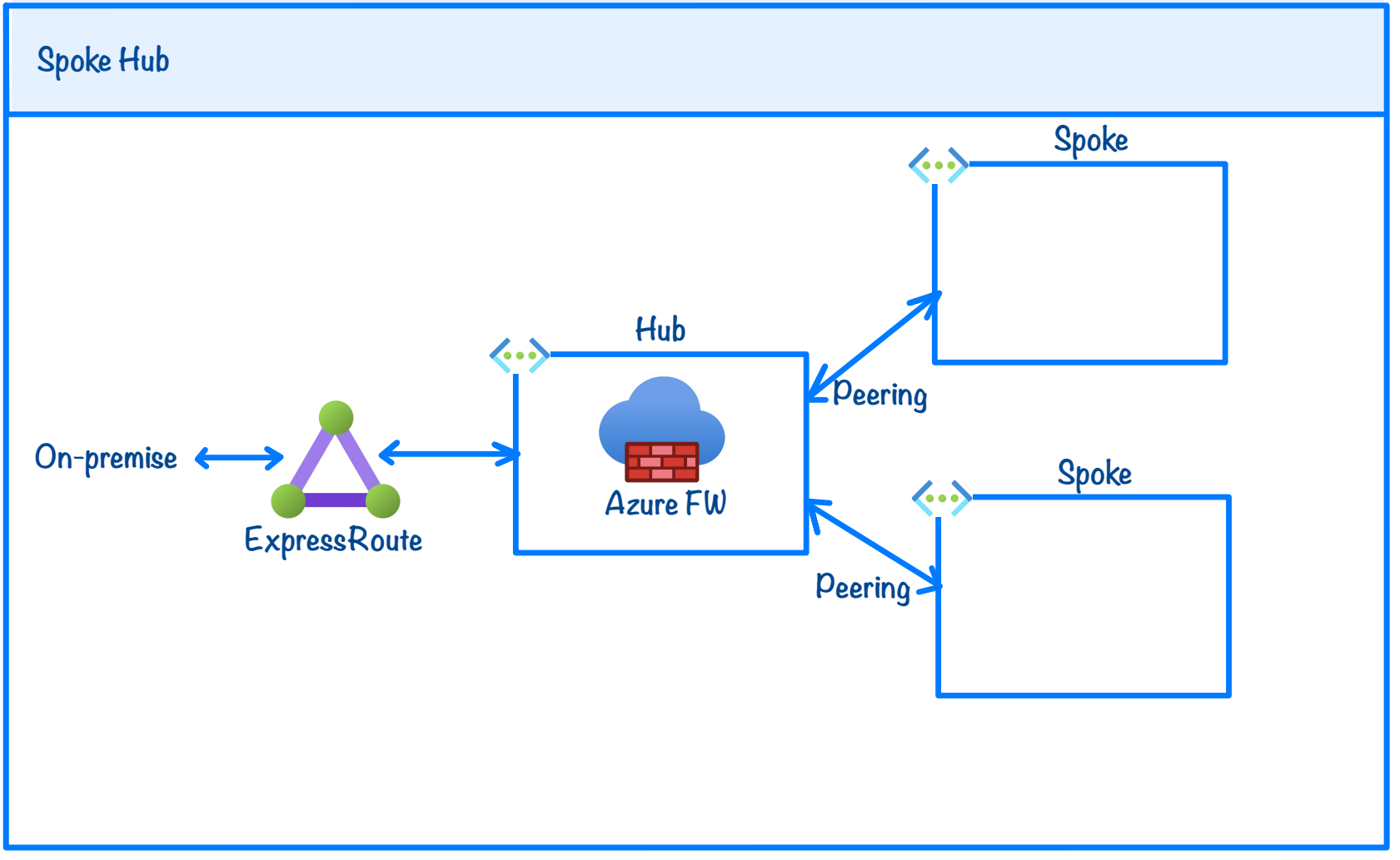
NSG en UDR

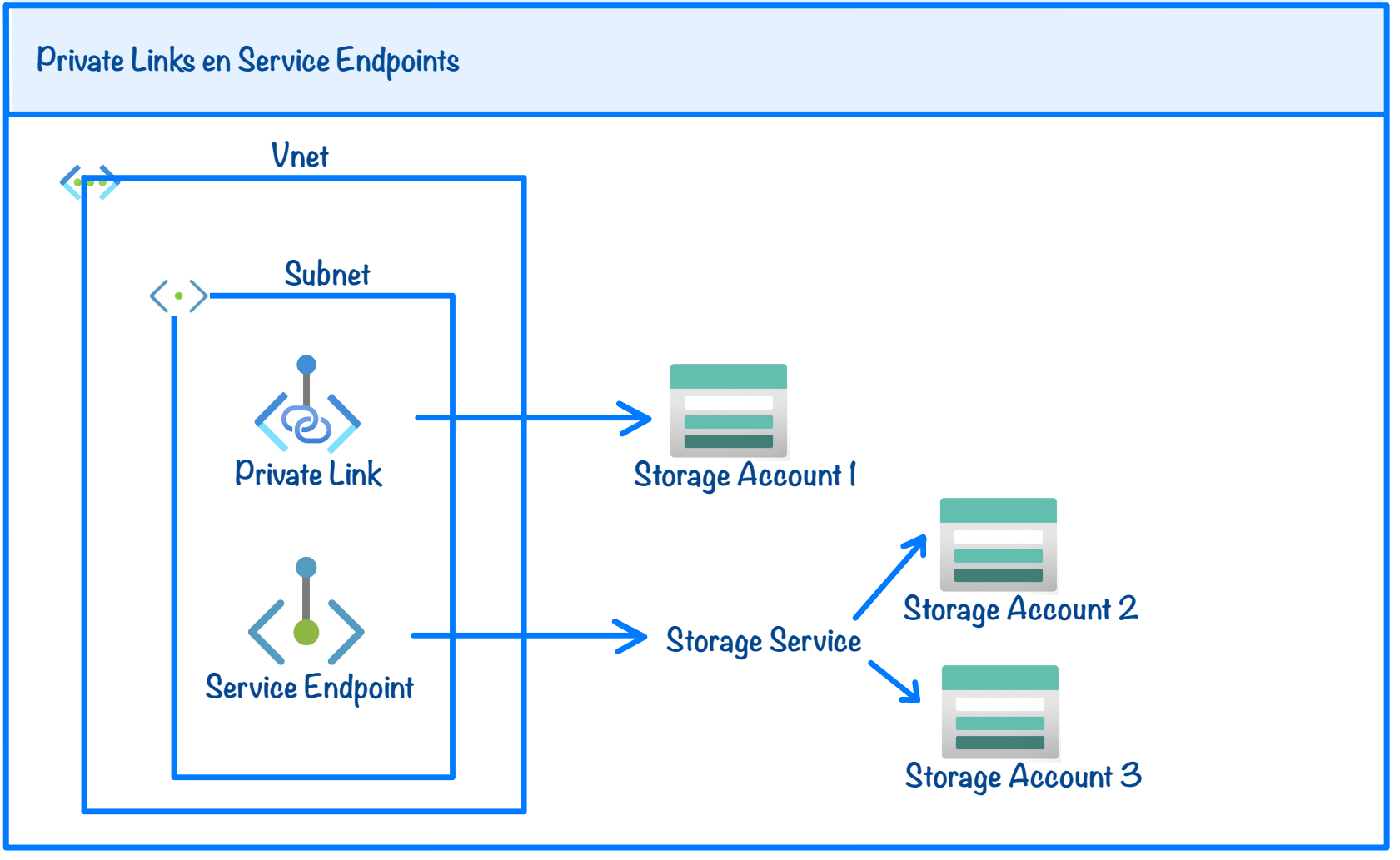

Subnet
NIC
System routes
Standaard
Simpele FW
Allow / Deny
Azure Service tags
5 tuple hash
Sport, sip, protocol,
dport en dip
NSG
ASG
UDR
Handmatige routes
Overschrijven

Gateways

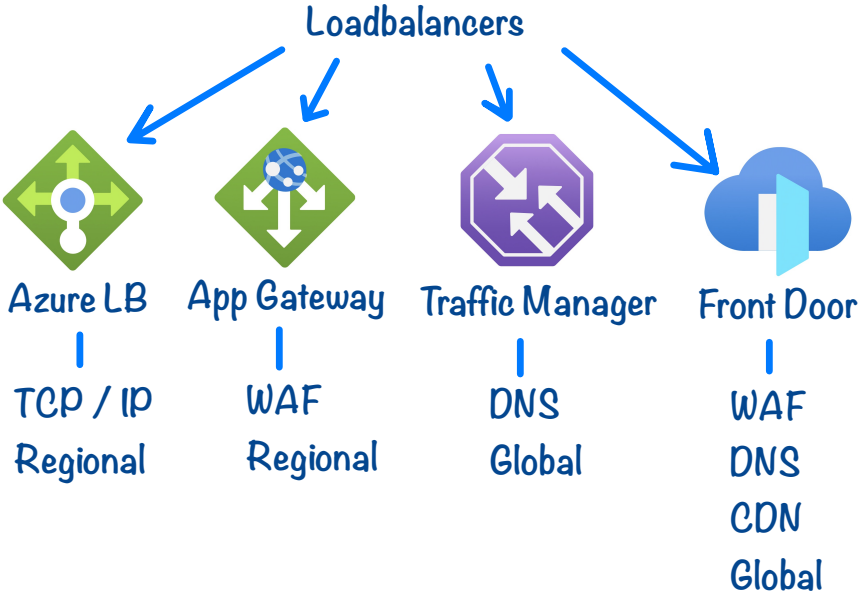

Subnet
Azure Gateway
ExpressRoute
Azure Gateway
VPN
Dedicated
VPN
On-premise
Client


Vnet Peering
Vnet 1
Subnet
NIC 1
NIC 2
Peering
Communicatie
Vnet 2
Subnet
NIC 1
NIC 2

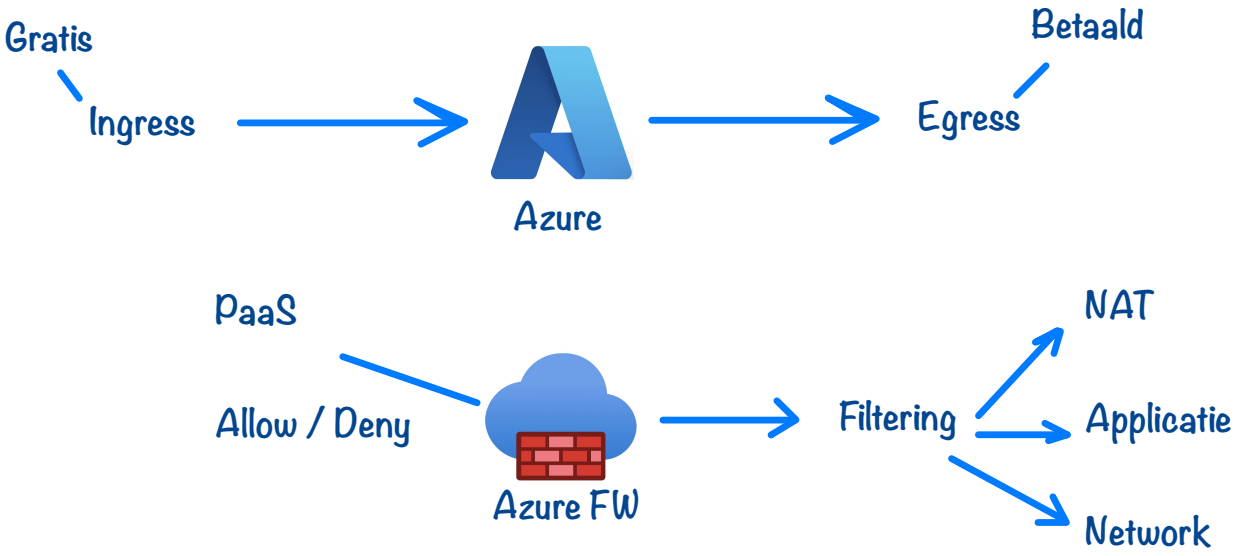

Spoke Hub
Spoke
Hub
Peering
On-premise
Azure FW
ExpressRoute
Spoke
Peering


Private Links en Service Endpoints
Vnet
Subnet
Private Link
Service Endpoint
Storage Account 1
Storage Service
Storage Account 2
Storage Account 3

Loadbalancers



Azure Firewall en Traffic



Defence in depth

Alerts

Alerts

Alerts

Alerts

Alerts

Alerts

Alerts

Alerts

Alerts

Alerts

Alerts

Alerts