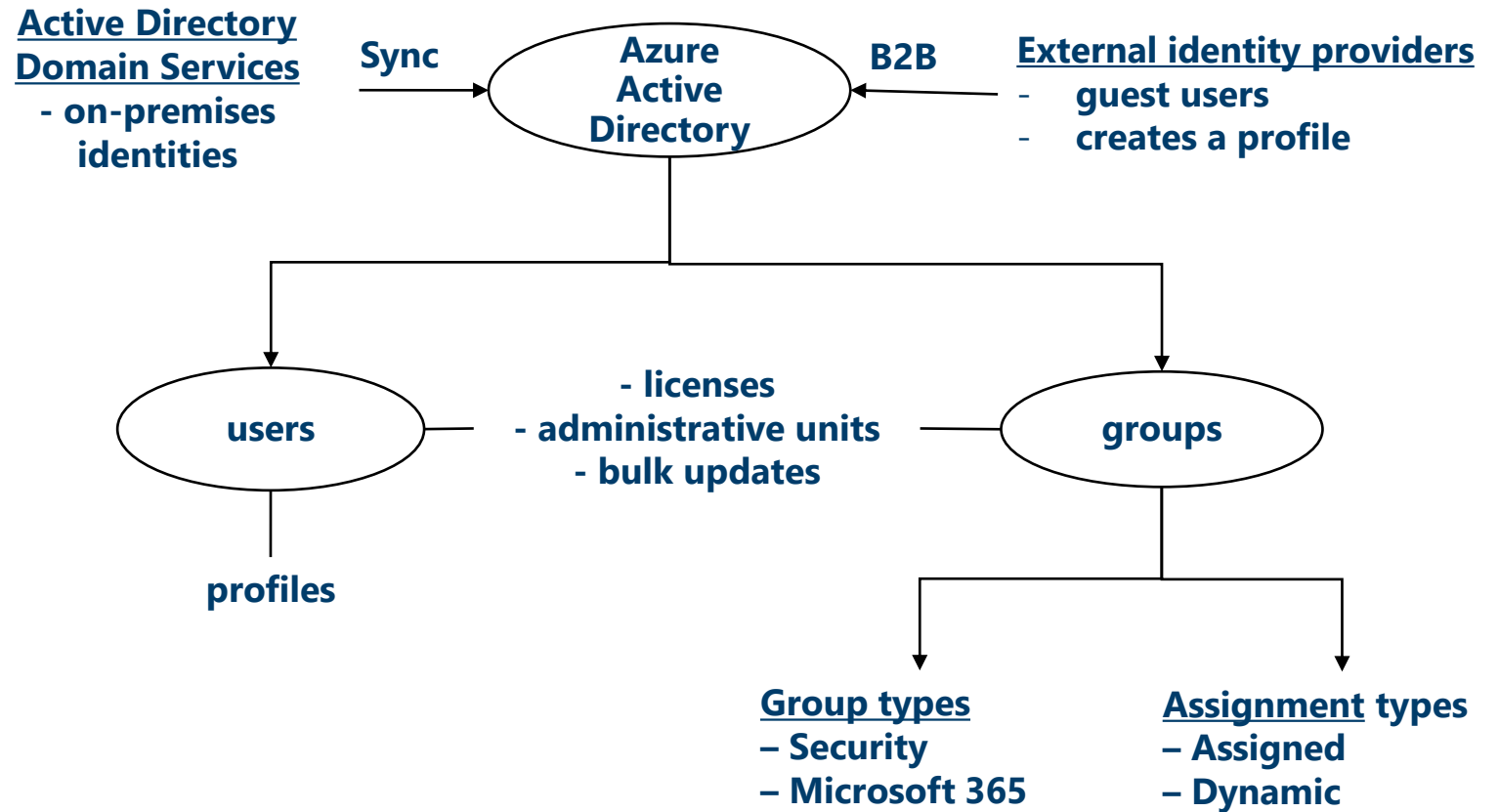
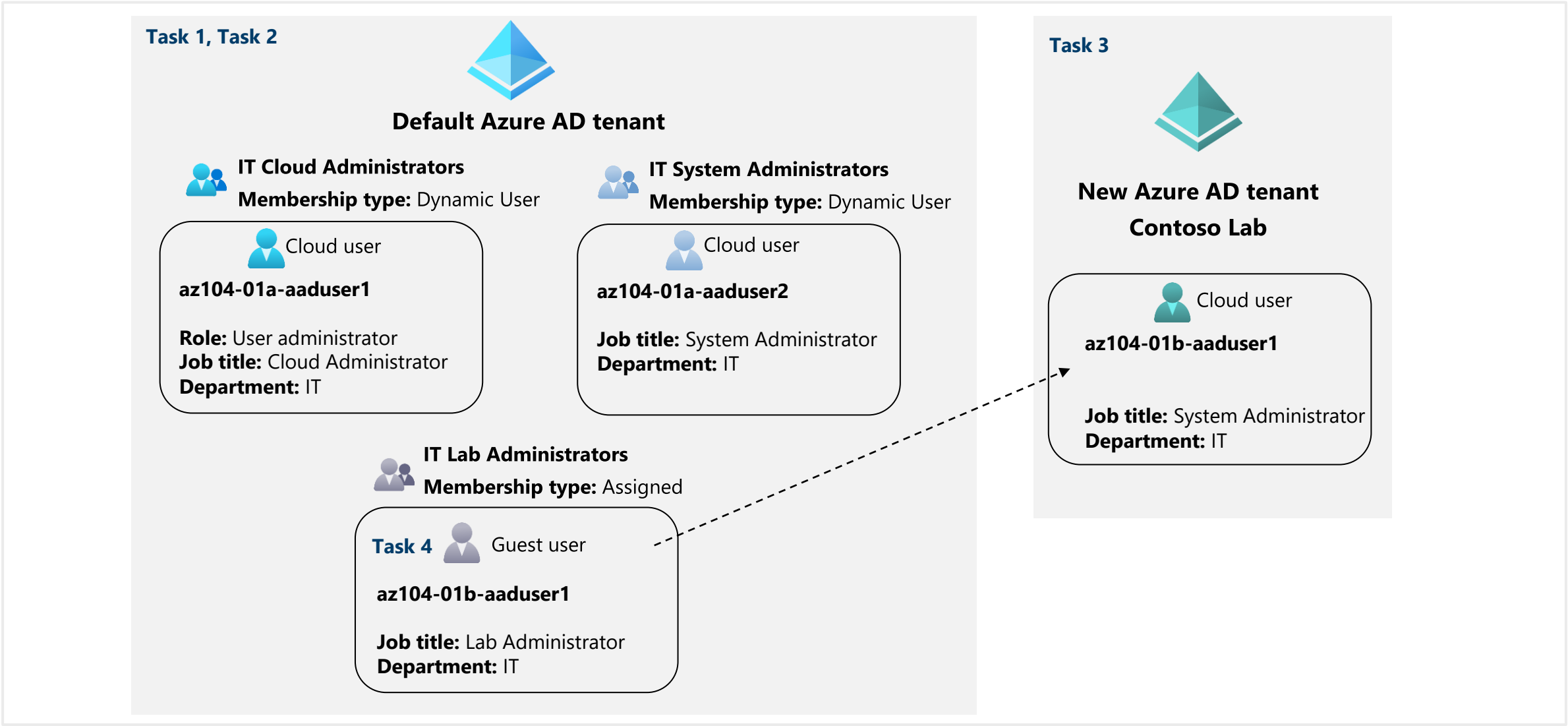


Administer Identity

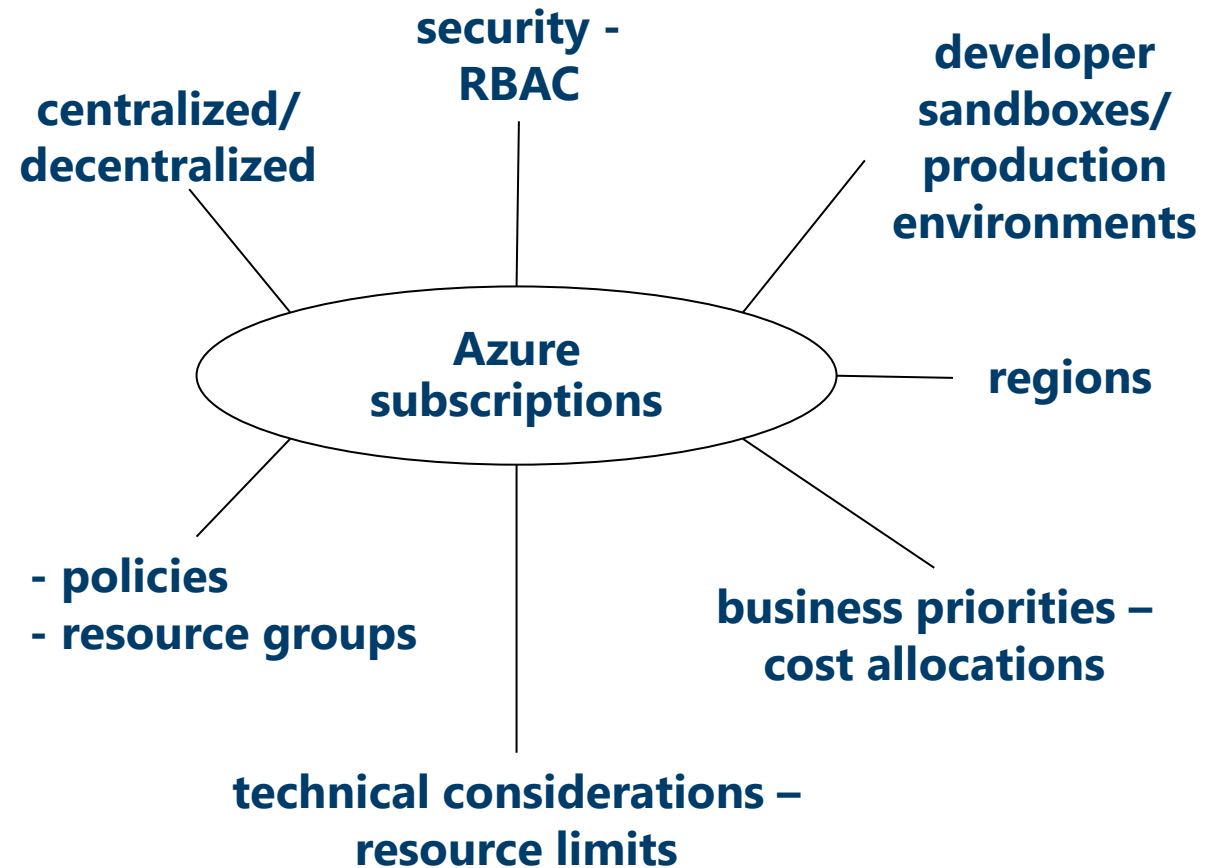
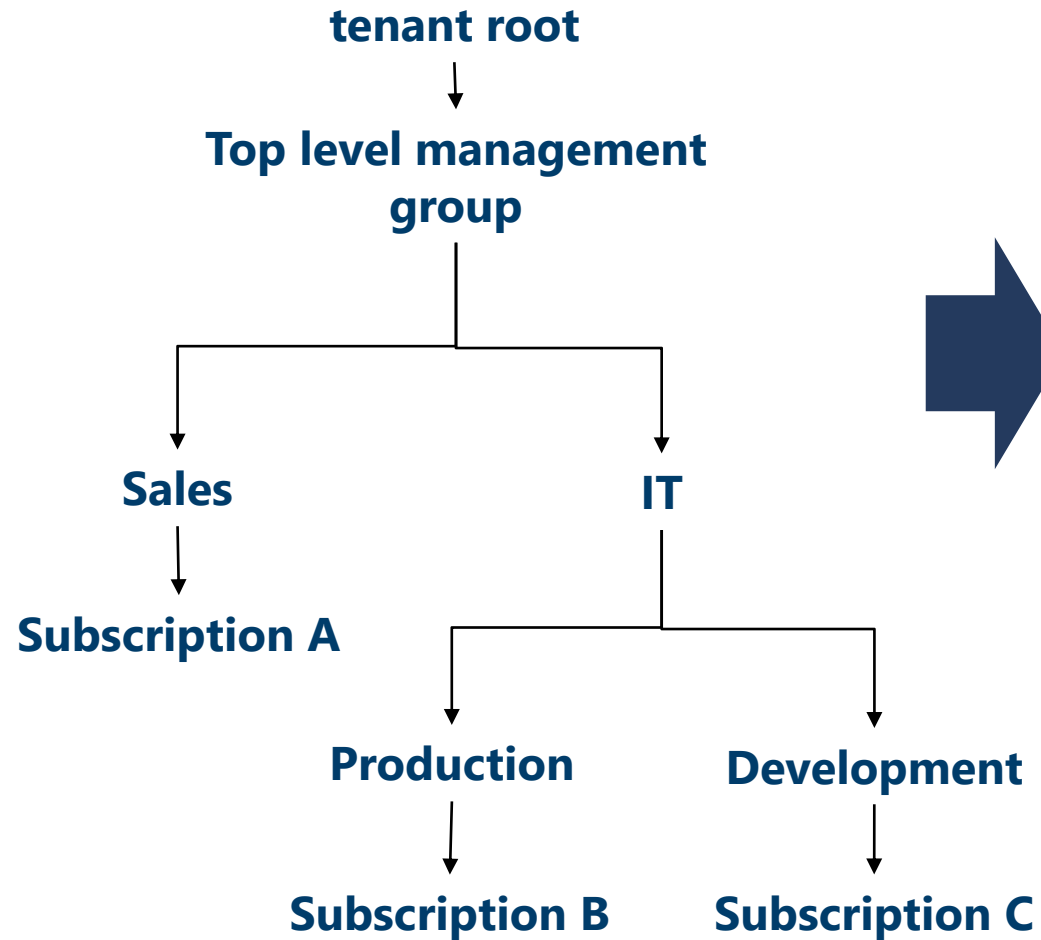
- Describe identity and accounts (users and groups). How are these different?
- How is Azure Active Directory different from Azure Active Directory Domain Services?
- List three features of a user account and two ways a user can be assigned to group.



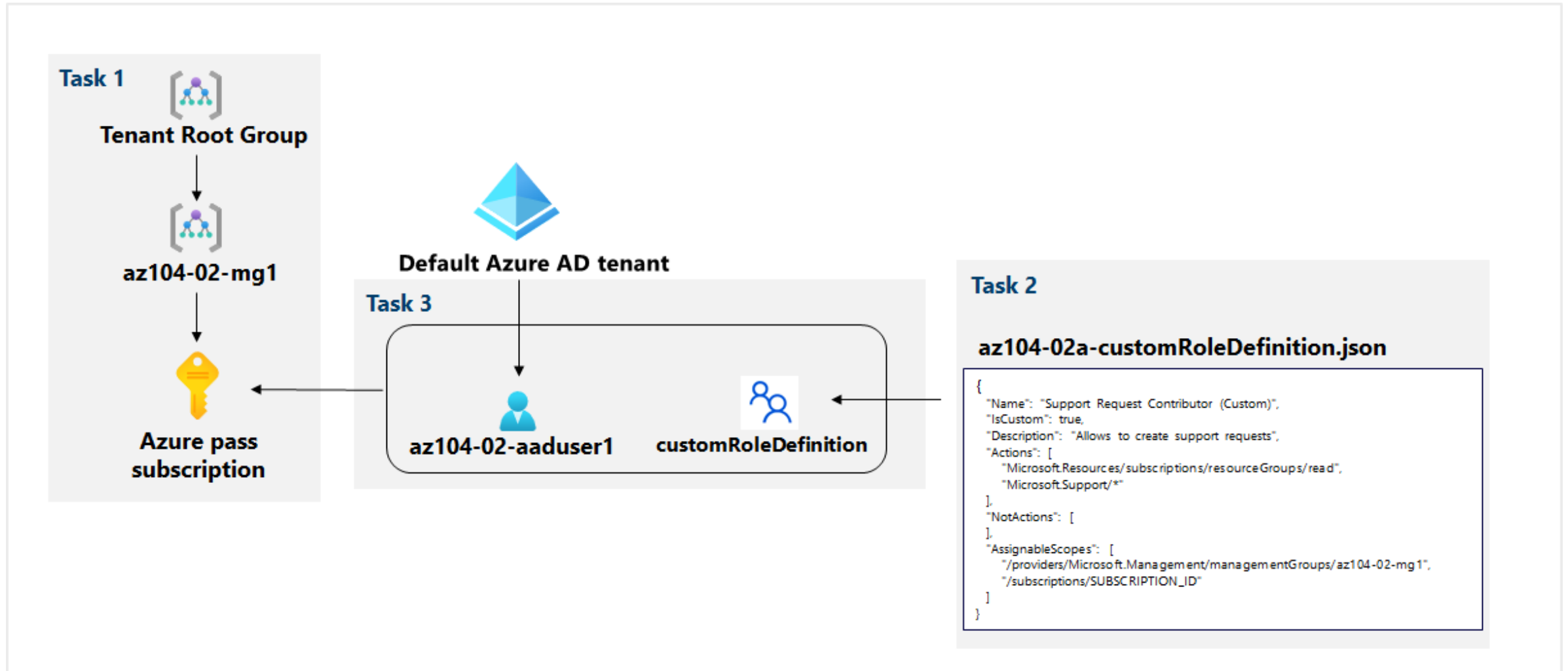
Lab 01 – Architecture diagram



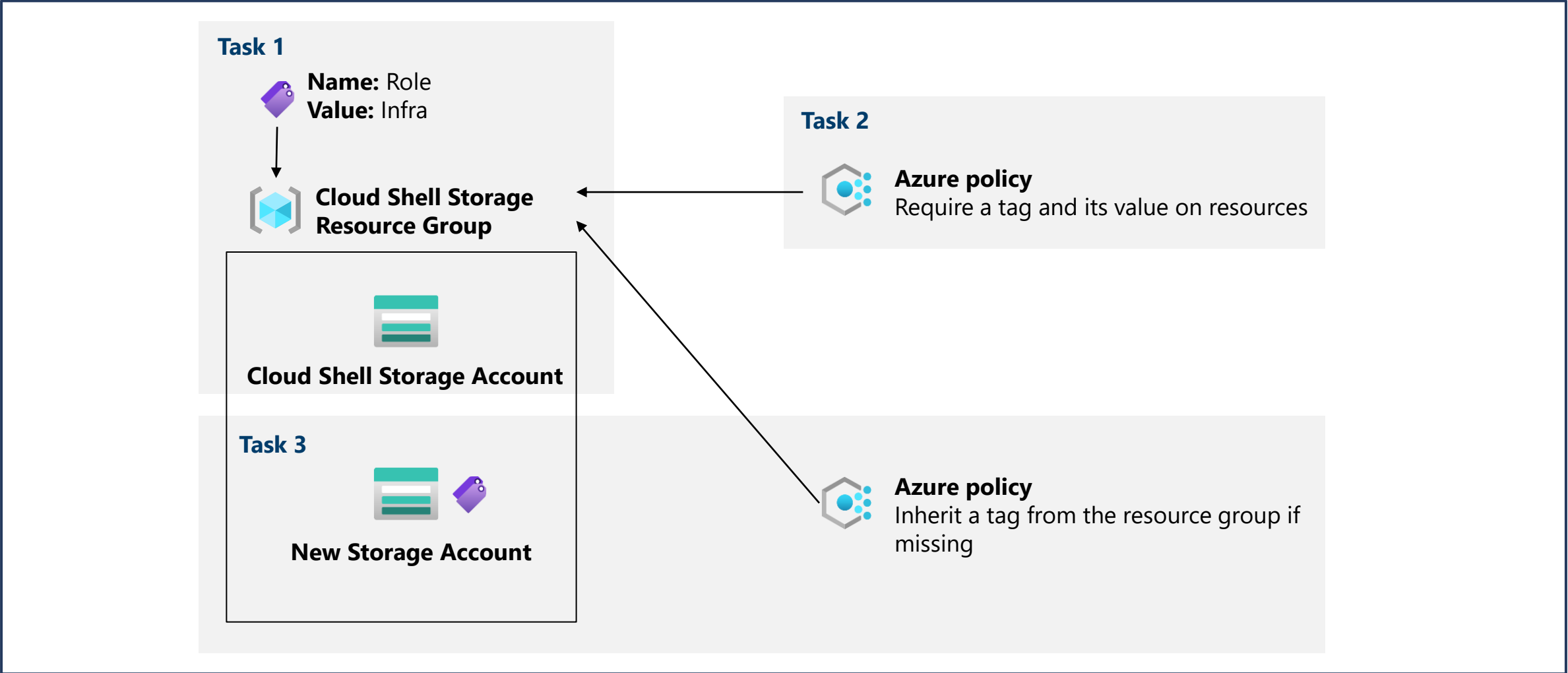
Administer Governance and Compliance



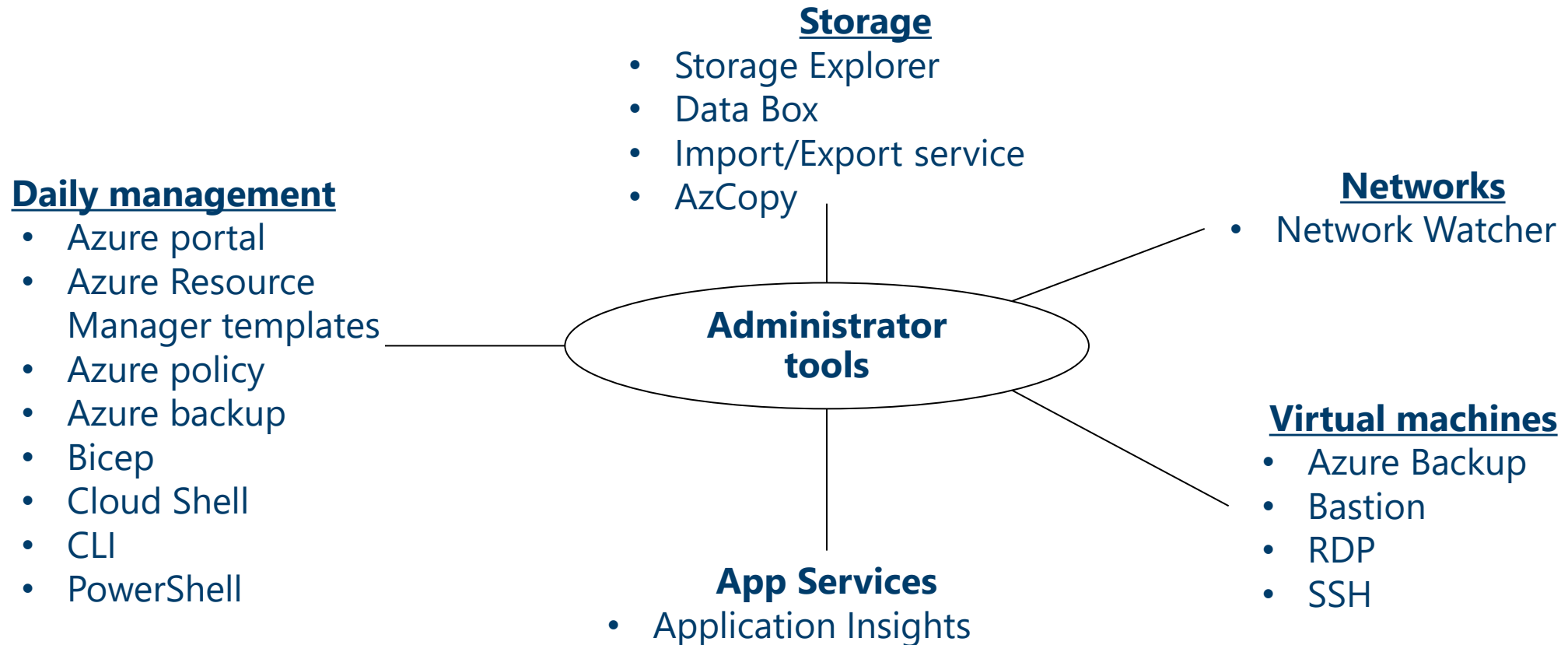
Lab 02a – Architecture diagram



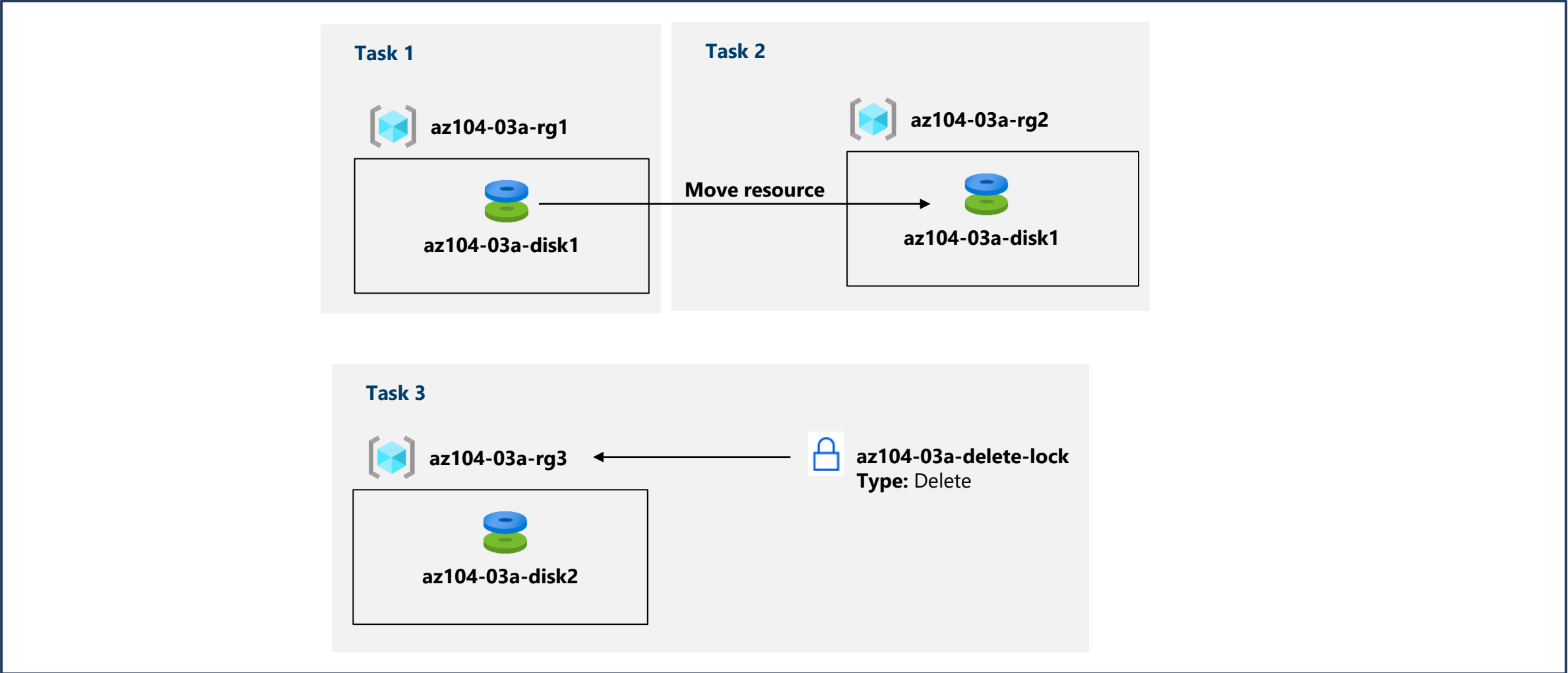
Lab 02b – Architecture diagram



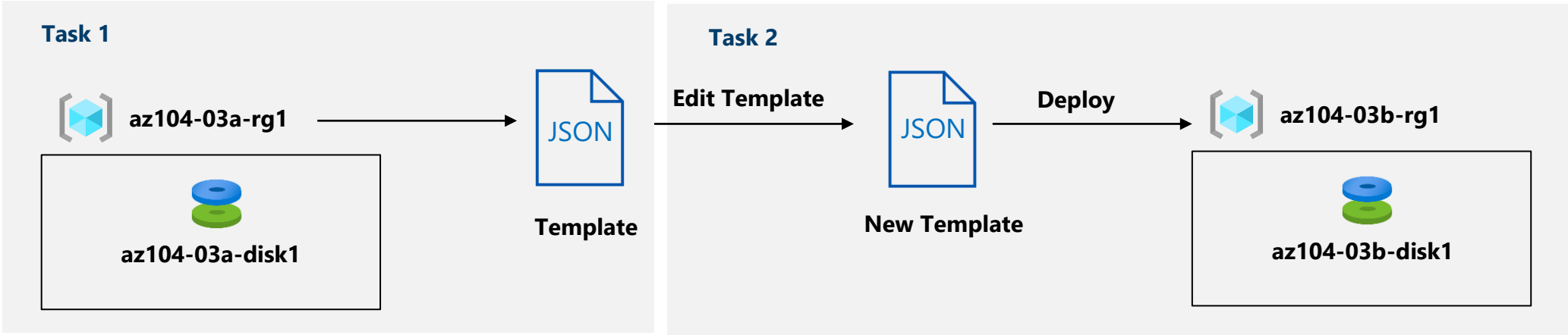
Administrator Resources



Lab 03a – Architecture diagram



Lab 03b – Architecture diagram



Lab 03c – Architecture diagram

Task 1, Task 2, Task 3

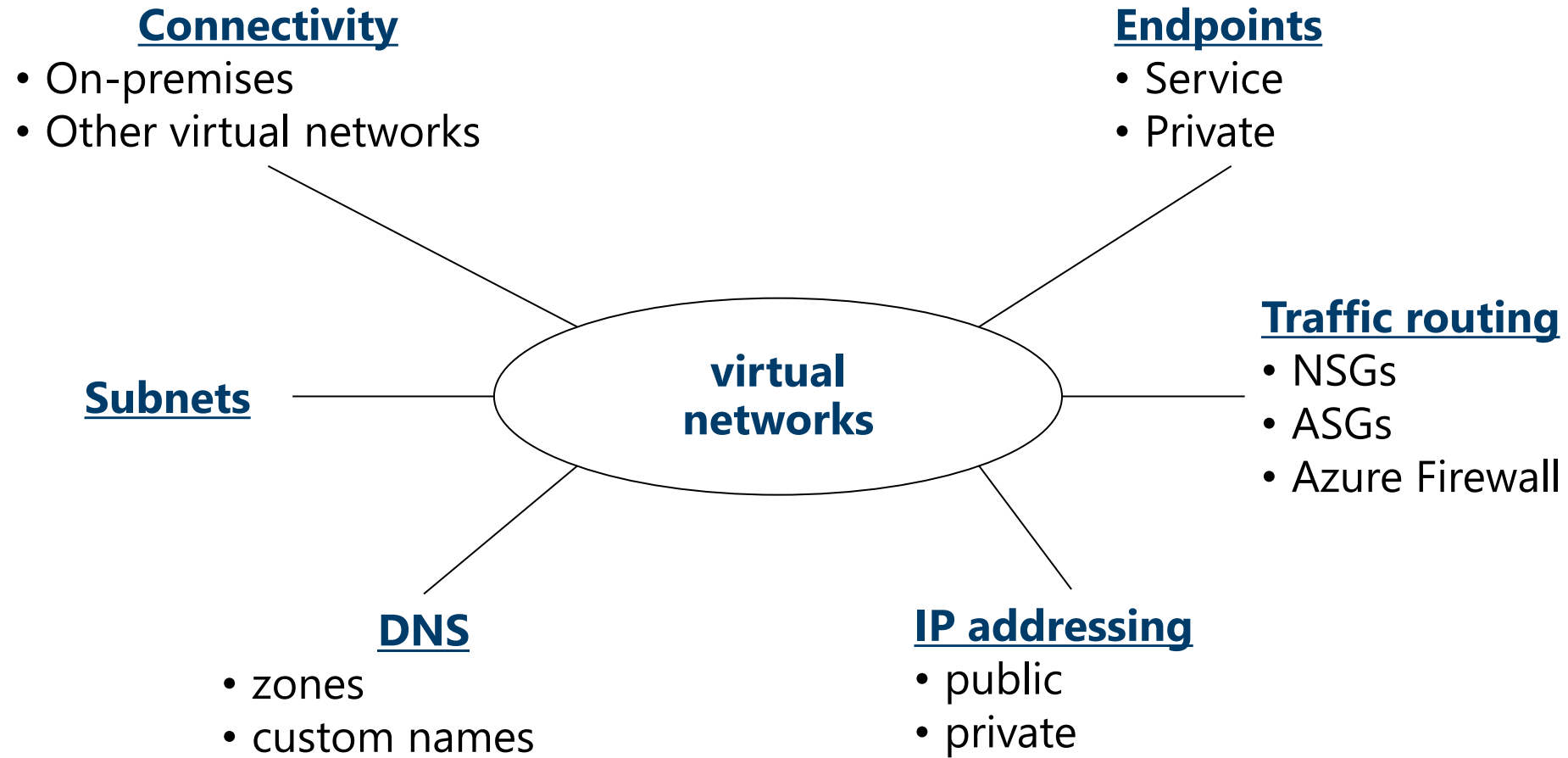


az104-03c-rg1

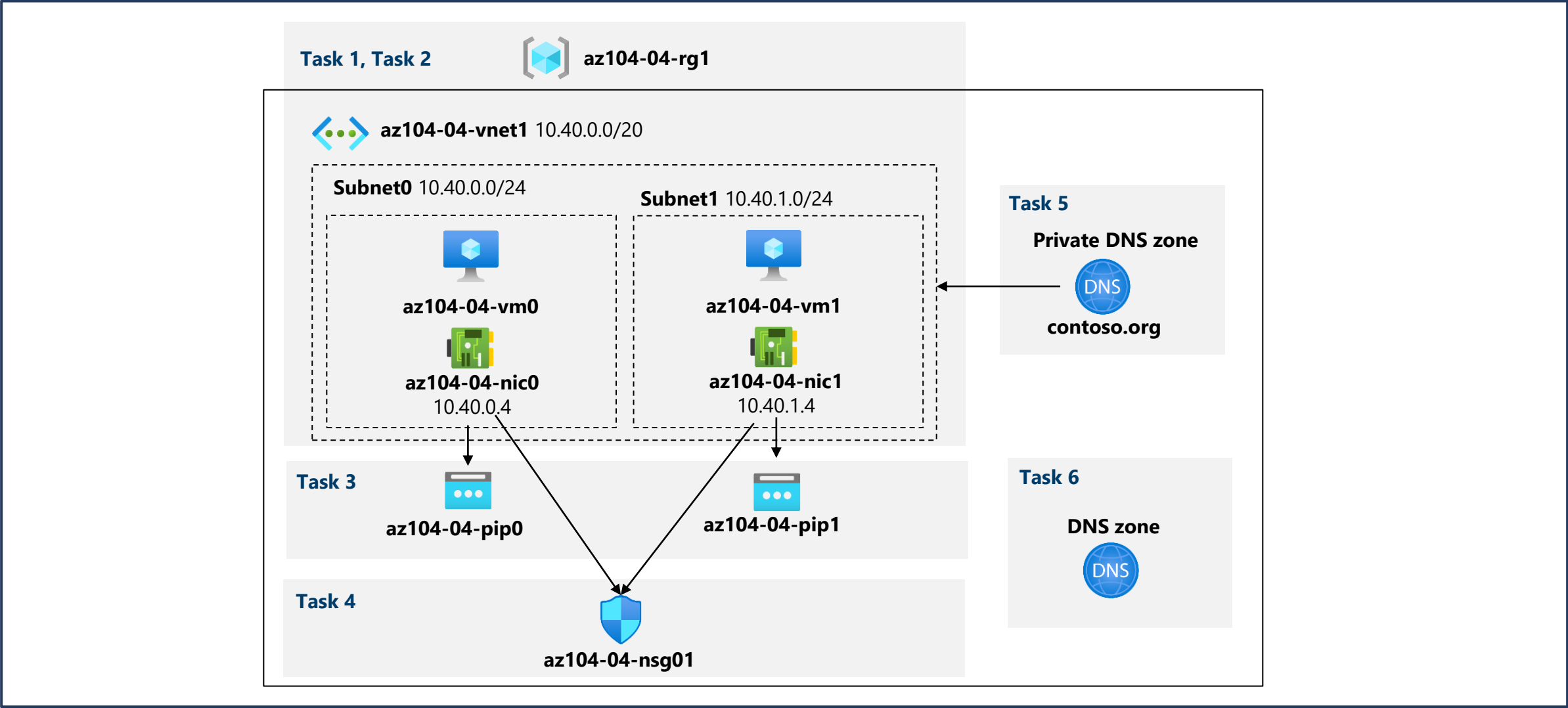


az104-03c-disk1

Administer Virtual Networking

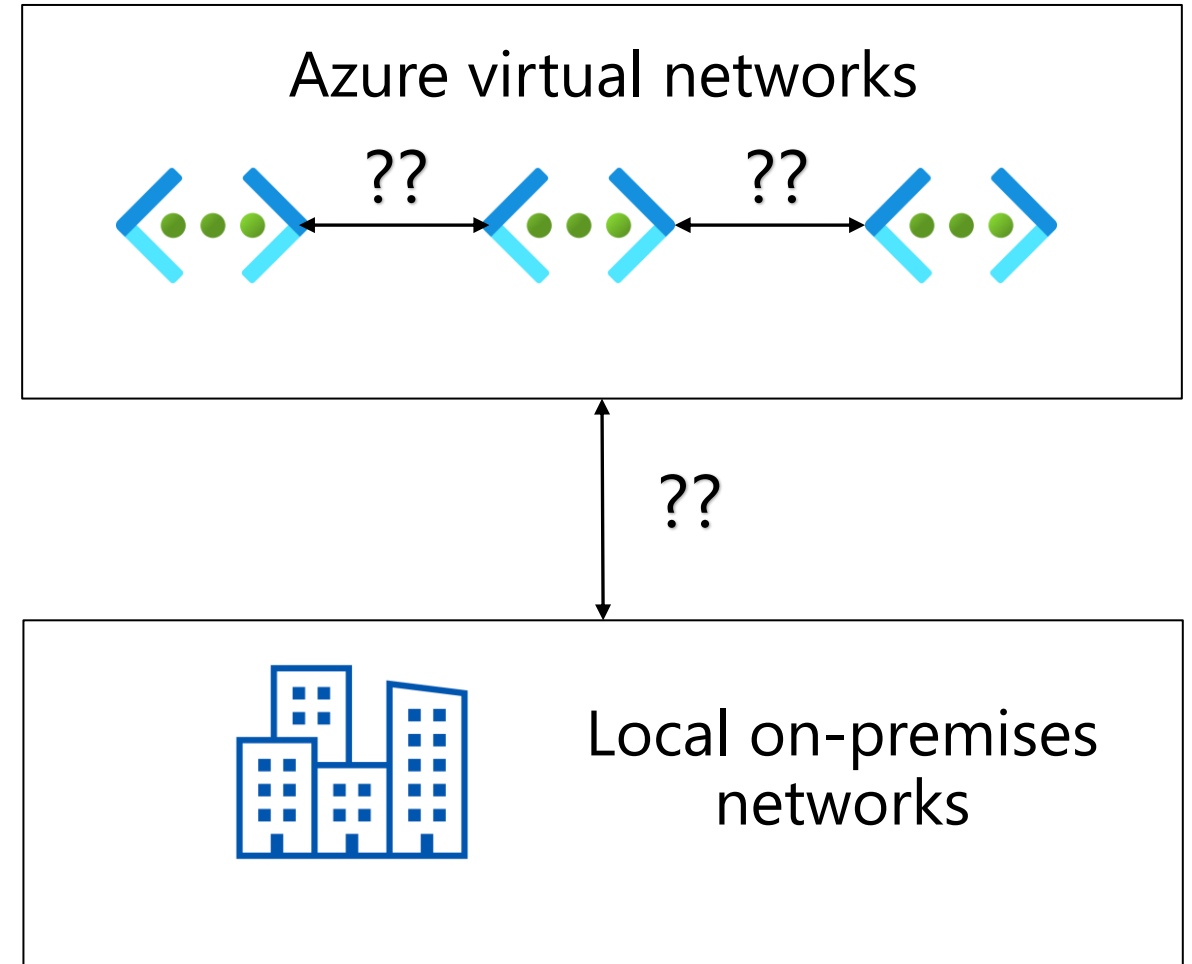


Lab 04 – Architecture diagram

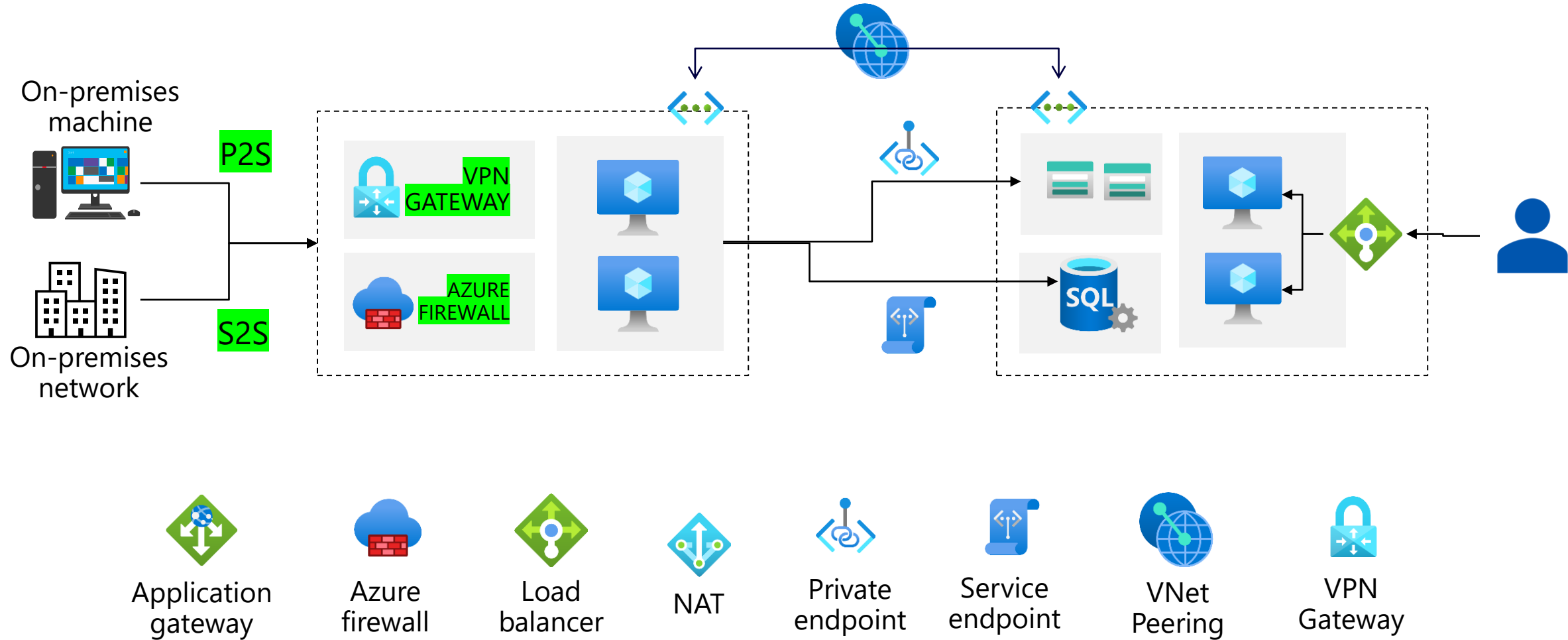


Administer Intersite Connectivity

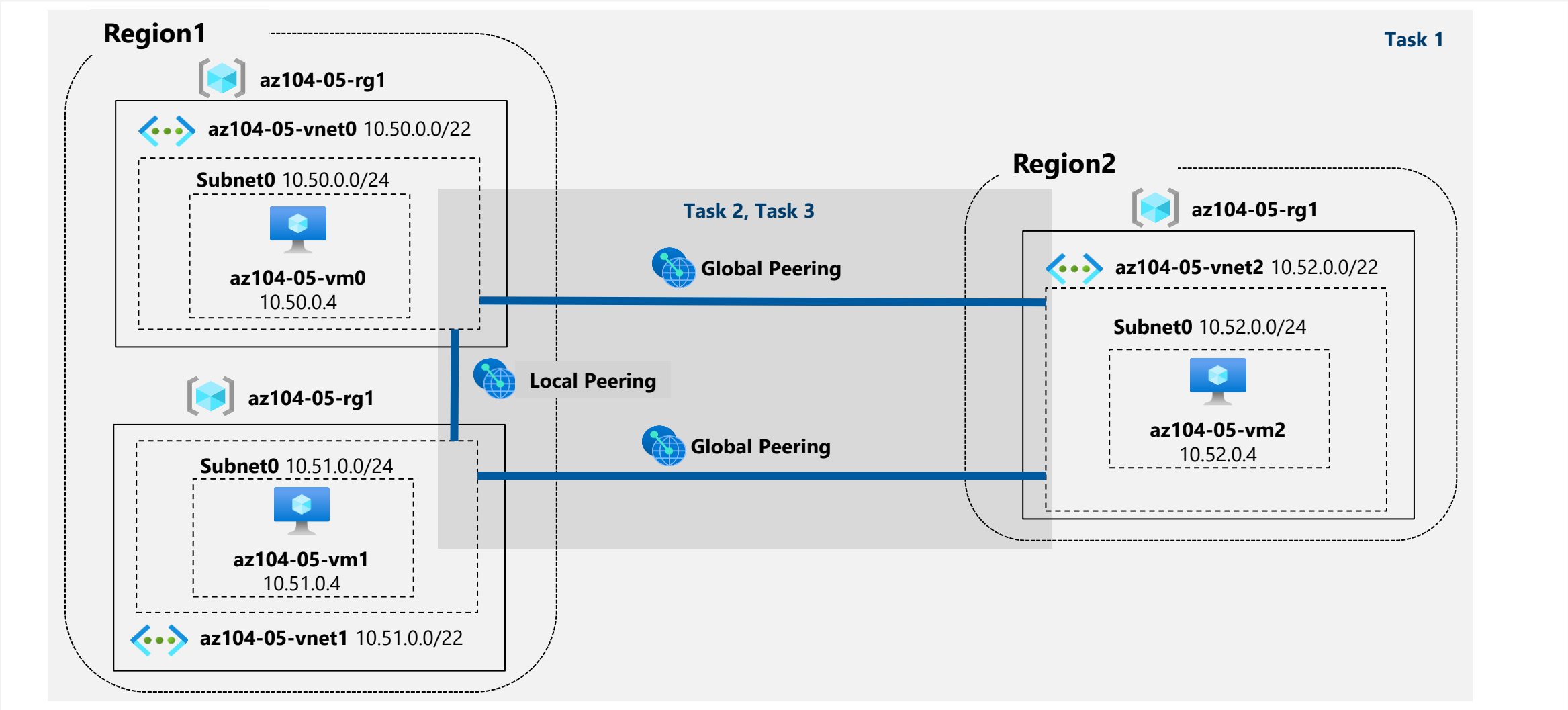
- What is virtual network peering?
Advantages?
- What is the difference between system-defined routes and user-defined routes?
- What is the difference between a service endpoint and a private endpoint?



Module Review Activity



Lab 05 – Architecture diagram



Administer Network traffic

- What is a load balancer and when should it be used?
- What are the four types of Azure load balancers?
Describe the differences.


Summary of your business needs

Does your application use HTTP/HTTPS? No

Is your application public (internet facing)? No

We recommend this service

With Load Balancer, you can scale your applications and create highly available services. Load balancer supports both inbound and outbound scenarios. Load balancer provides low latency and high throughput, and scales up to millions of flows for all TCP and UDP applications.

**Load Balancer**

- Layer 4 load balancing
- Internal and public configurations
- High availability across zones

Summary of your business needs


Does your application use HTTP/HTTPS? Yes

Is your application public (internet facing)? Yes

Is your application deployed in multiple regions? No

We recommend this service

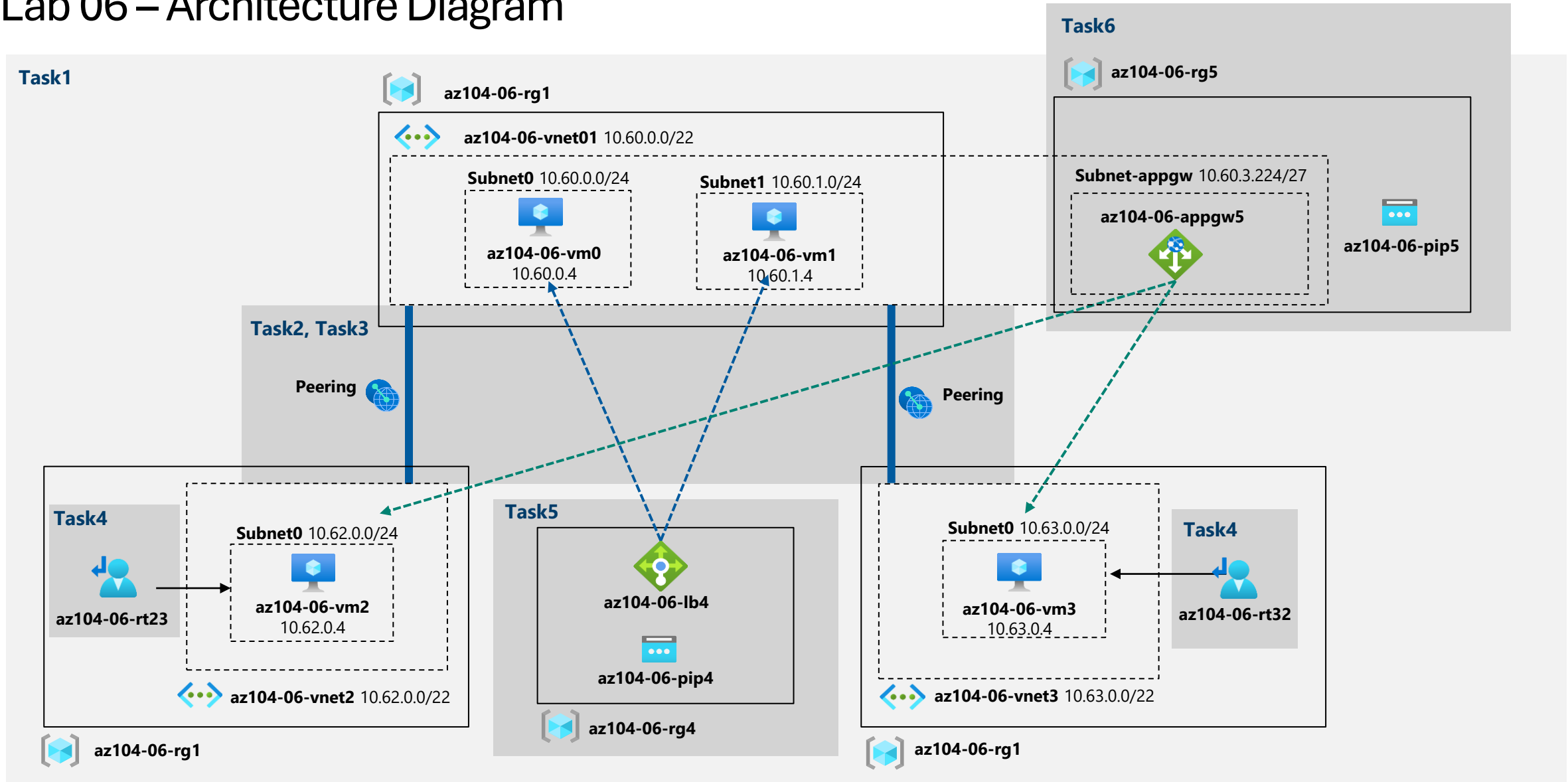
Application Gateway is a layer 7 regional load balancer, which means it works only with web traffic (HTTP, HTTPS, WebSocket, and HTTP/2). It supports capabilities such as WAF, TLS termination, cookie-based session affinity, and round robin for load-balancing traffic.

**Application Gateway**

- Internal and public configurations
- Regional layer 7 load balancer
- SSL/TLS offloading

The portal provides a *Help me Choose* questionnaire

Lab 06 – Architecture Diagram



Storage Accounts and Blobs

Account types

- Standard general purpose v2
- Premium block blobs
- Premium file shares
- Premium page blobs

Redundancy

- LRS/ZRS
- GRS/GZRS
- RA-GRS/RA-GZRS

Authentication/authorization

- Storage endpoints
- Private vs anonymous
- Storage account keys
- Shared access signatures

Non-relational storage (storage accounts and blobs)



Data protection

- Soft delete
- Blob versioning
- Point in time restore

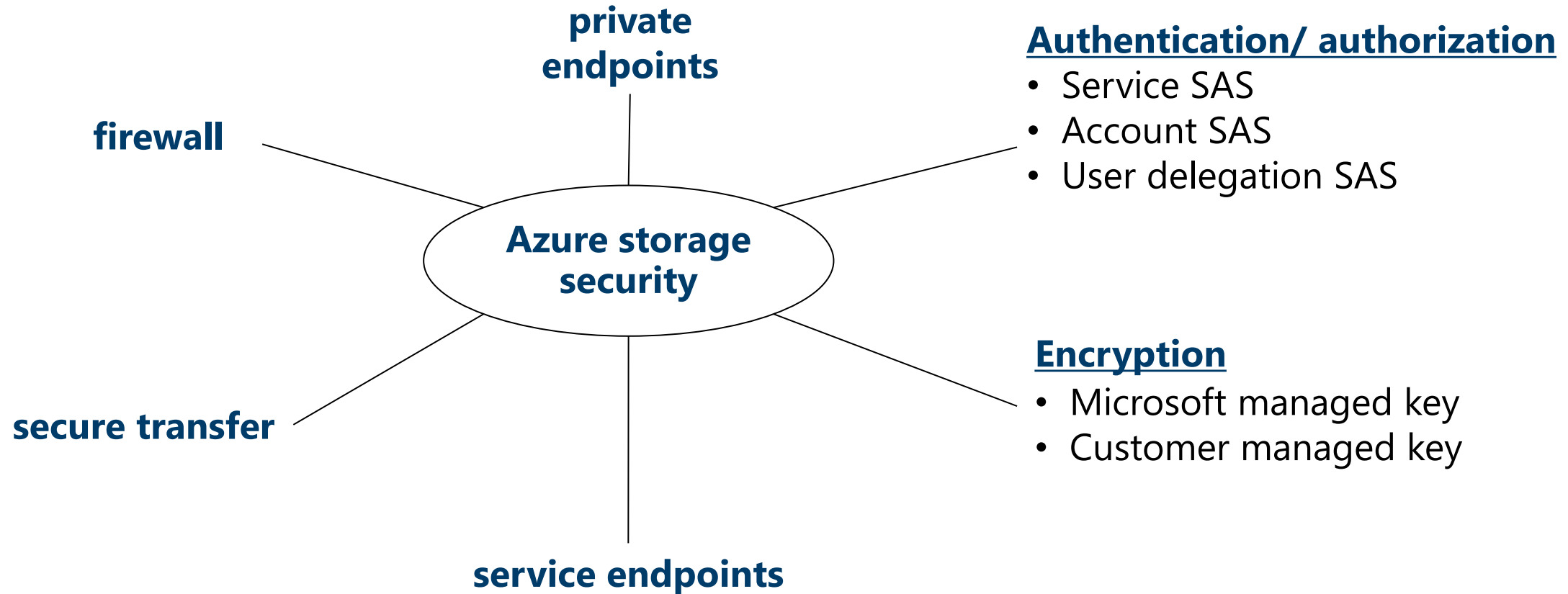
Storage tier (cost)

- Premium
- Hot/cool/archive

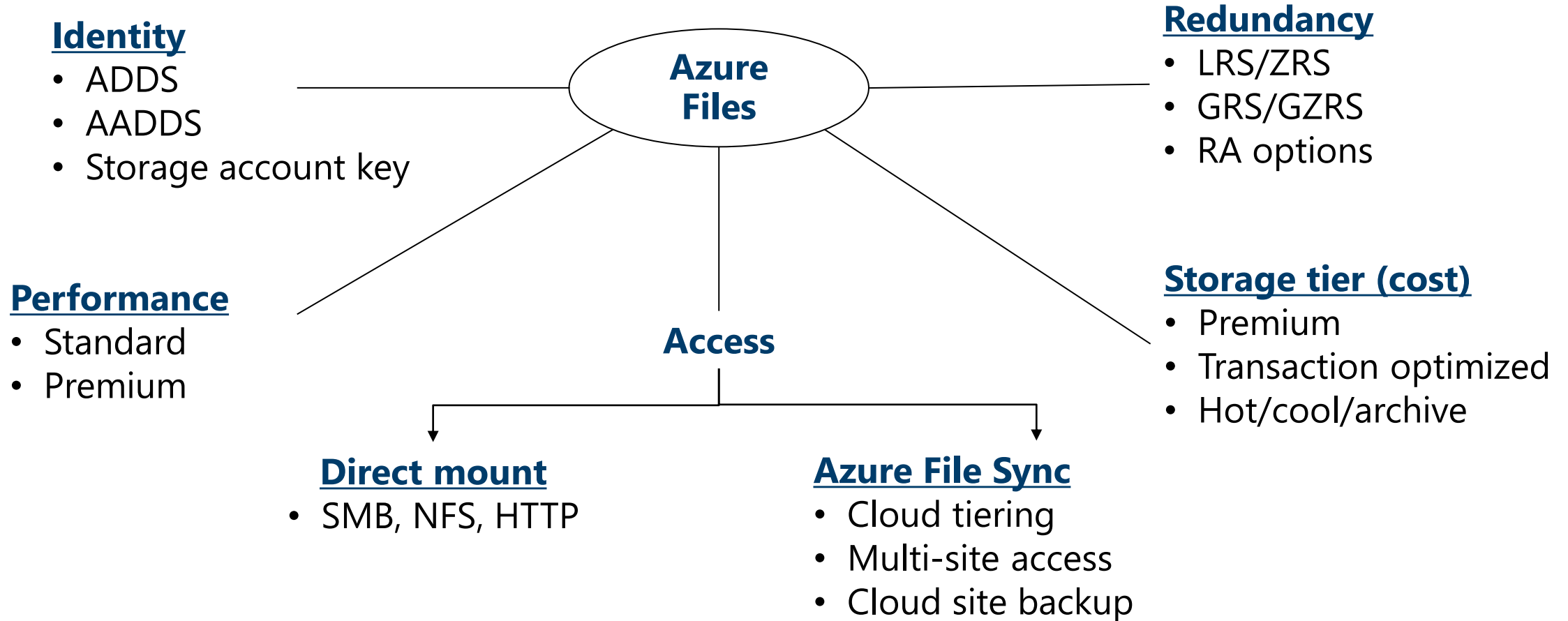
Administration

- Object replication
- Lifecycle blob management
- Storage tools

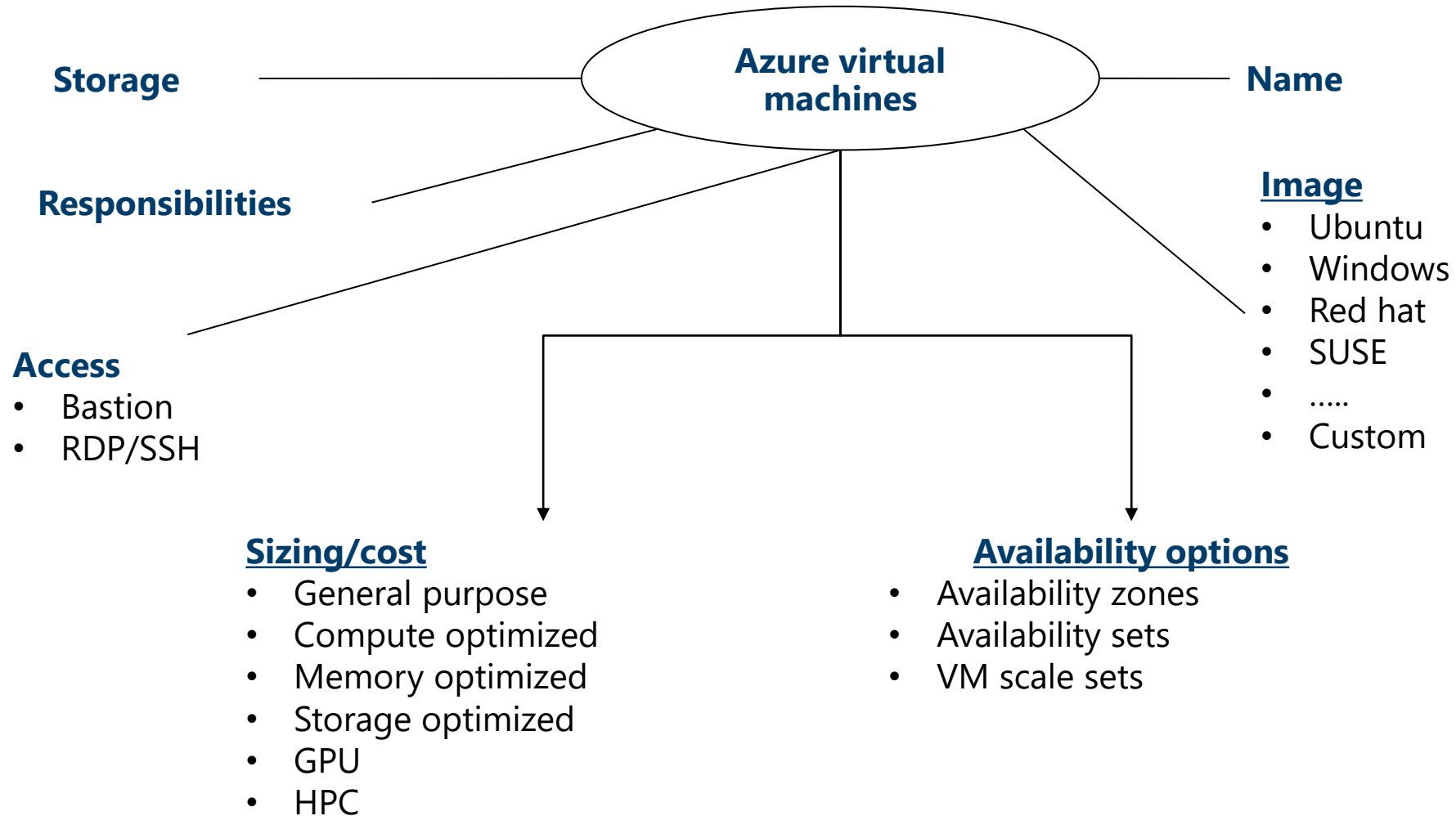
Storage Security



Azure Files



Administer Virtual Machines



Lab 08 – Architecture diagram

Task 1

 az104-08-rg01

 az104-06-vnet01 10.80.0.0/20

Subnet0 10.80.0.0/24



az104-08-vm0
10.80.0.4

Zone1



az104-08-vm1
10.80.0.5

Zone2

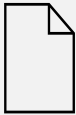
Task 2



az10408rg01diag938




scripts



az104-08-install_IIS.ps1

Task 3, Task 4, Task 5, Task 6, Task 7

 az104-08-rg02

 az104-08-rg02-vnet 10.82.0.0/20

Subnet0 10.82.0.0/24



az10408vmss0



az10408vmss0-lb



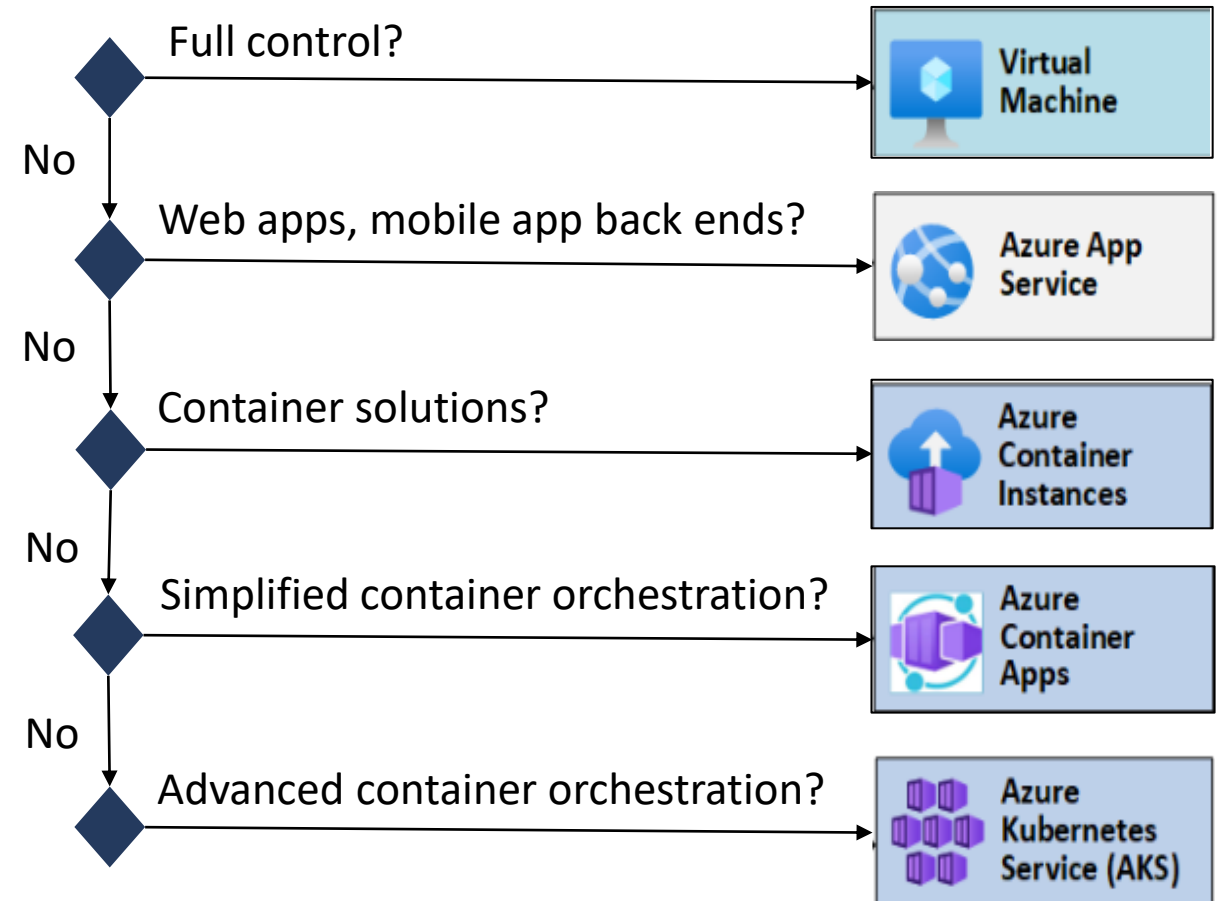
az10408vmss0-nsg



az10408vmss0-ip

Administer PaaS Compute Options

- Describe the differences between containers and virtual machines.
- What is an App Service plan? Things to consider when selecting?
- What are deployment slots? Usage cases for slots?
- List at least three admin tasks for web apps.



Lab 09a – Architecture diagram

Task 1



az104-09a-rg1

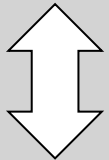


AppService



Production slot

Task 5



Swap the staging slot

Task 2



Staging slot

Task 3



Local git



AppServiceplan

Task 6



Autoscale rule

php-docs-hello-world
code

Task 4

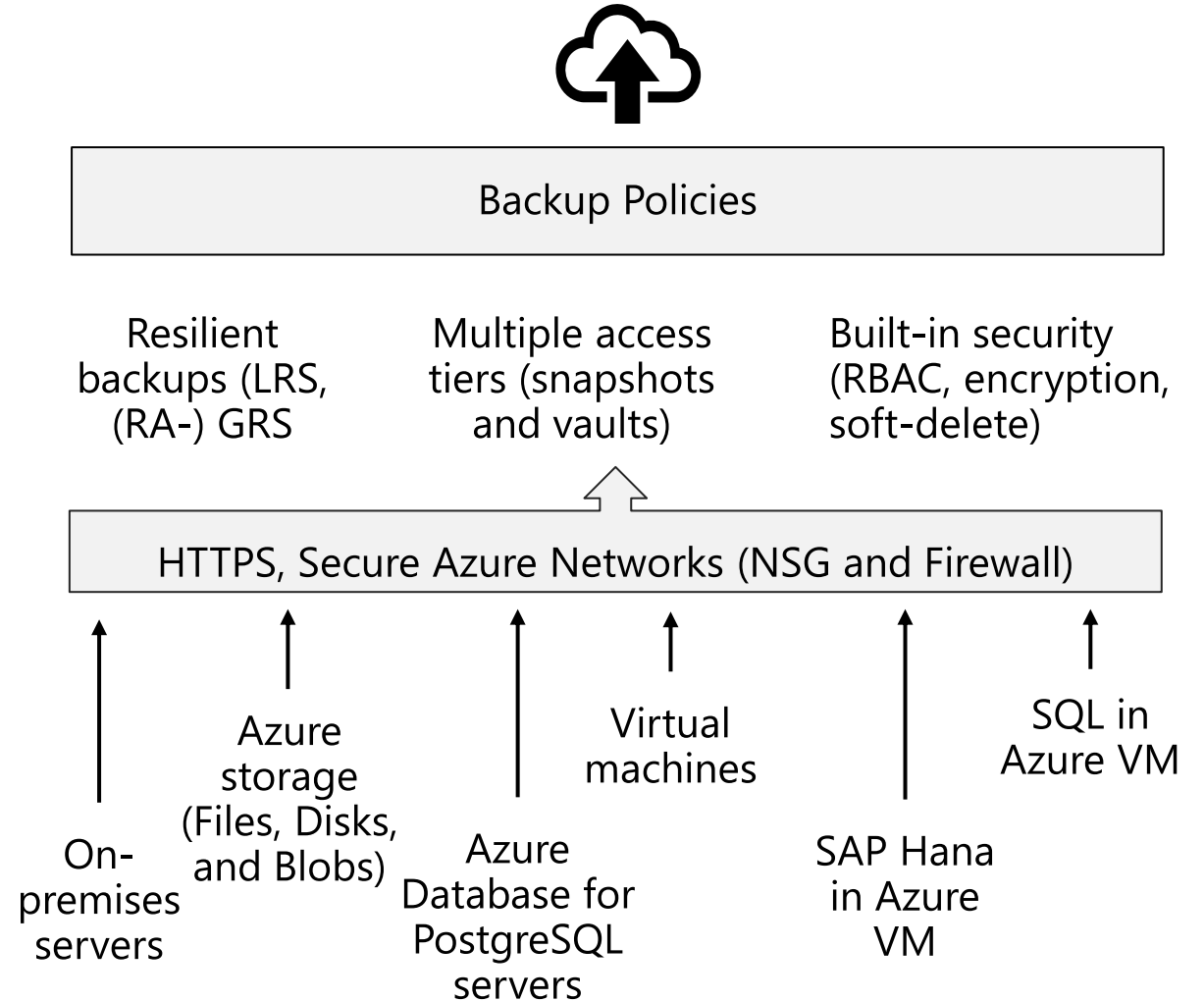


php-docs-hello-world
code

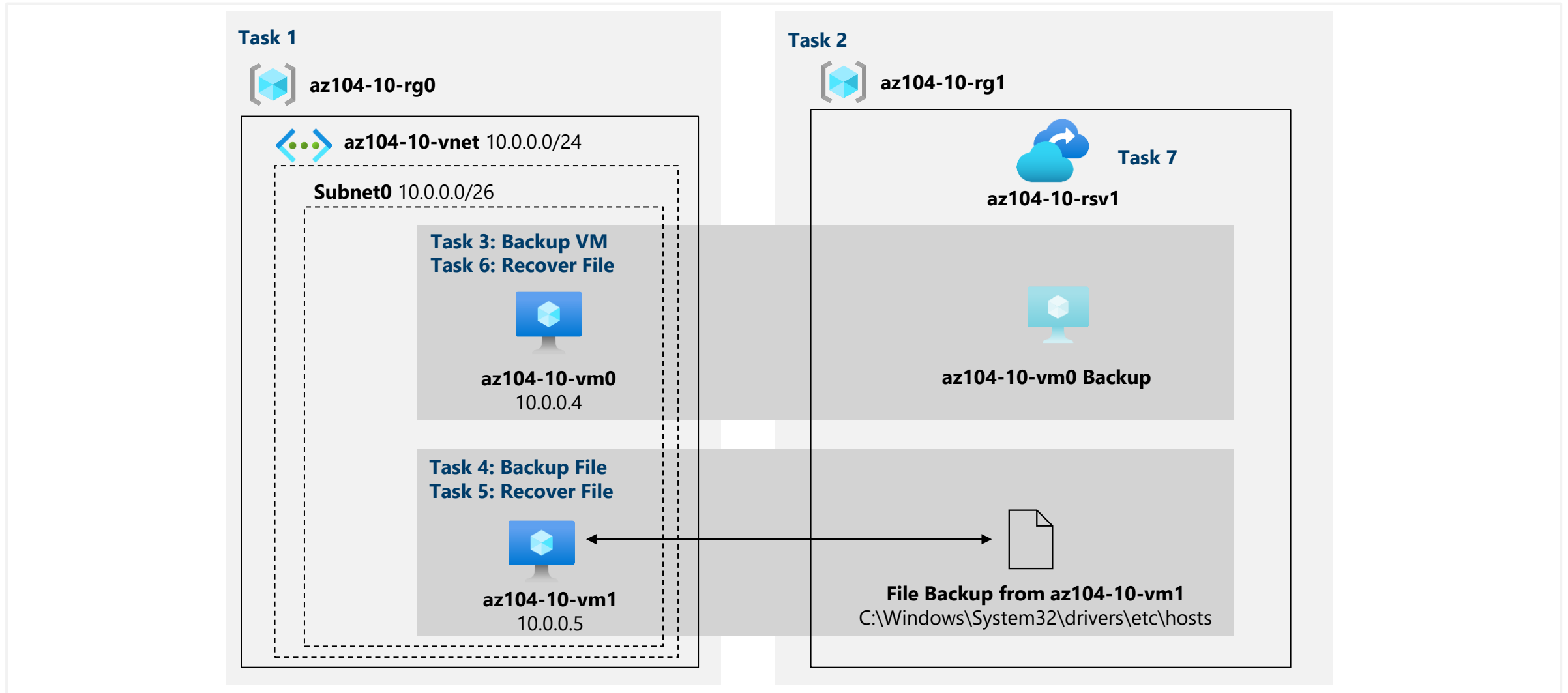


Administer Data Protection

- What workloads can Azure Backup protect?
- How would you configure file and folder backups?
- Name at least two ways to protect virtual machine data.
- Is there a way to recover virtual machine backups that have been deleted?
- What is the difference between Azure Backup and Azure Site Recovery?



Lab 10 – Architecture diagram



Administer Monitoring

- Name at least three data sources that can be used by Azure Monitor.
- How can you notify Help Desk personnel of an issue? What notification methods are available?
- You need to search the Windows Event log. What tool can you use? How would you search for *errors*?

