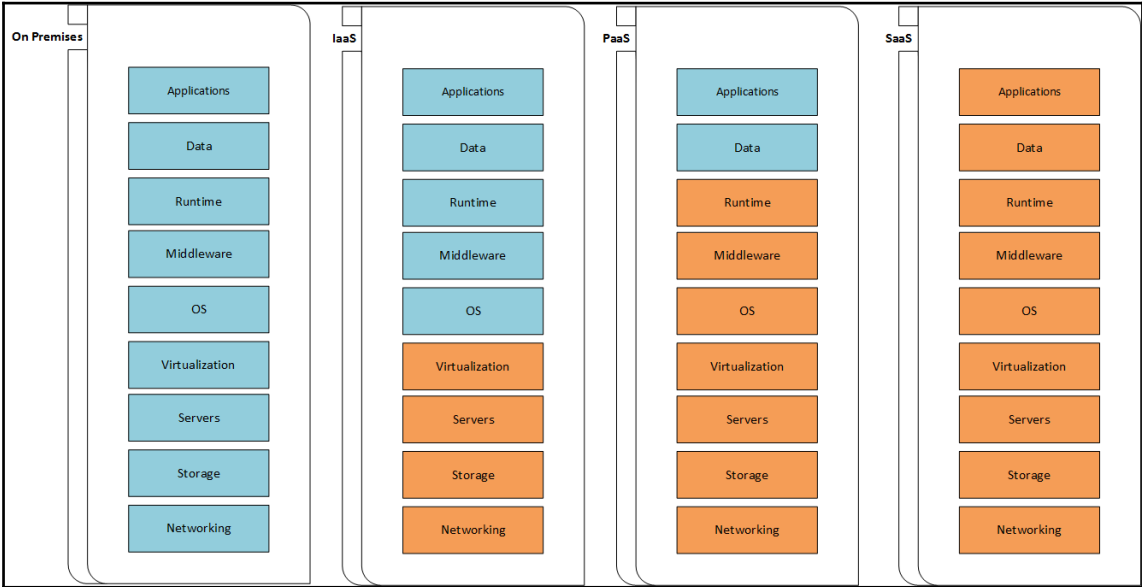
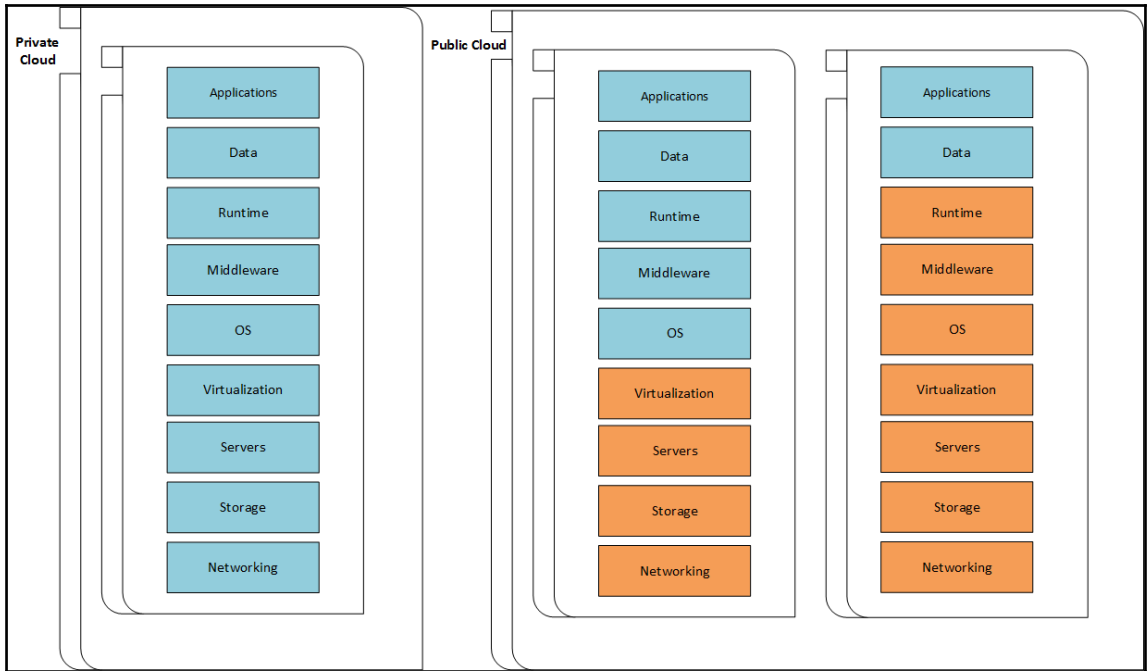
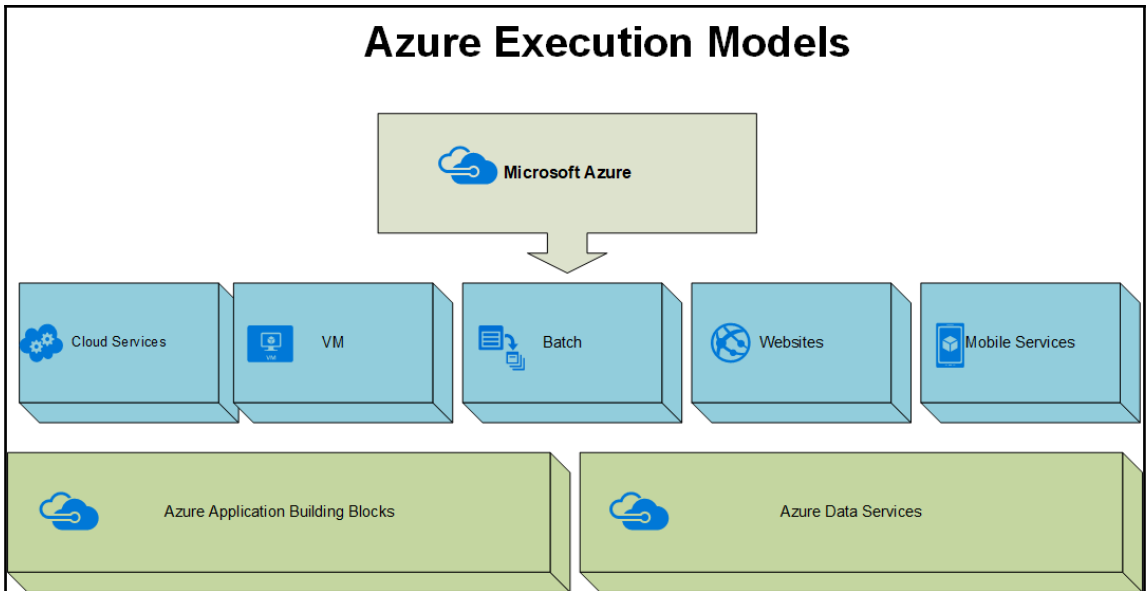
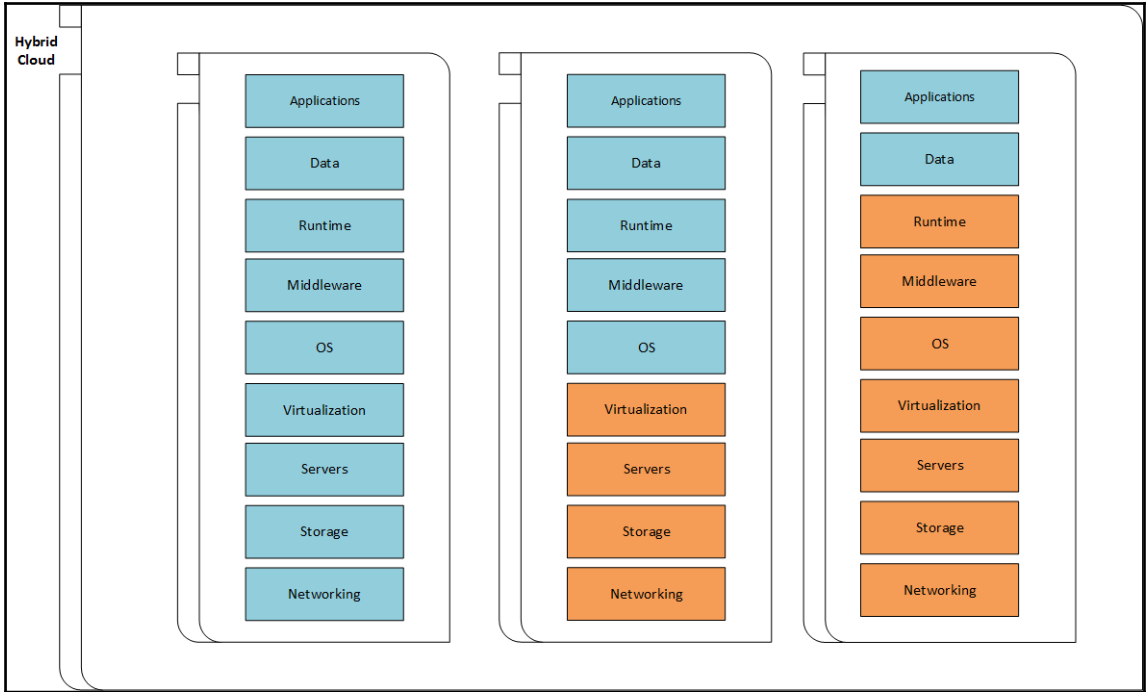


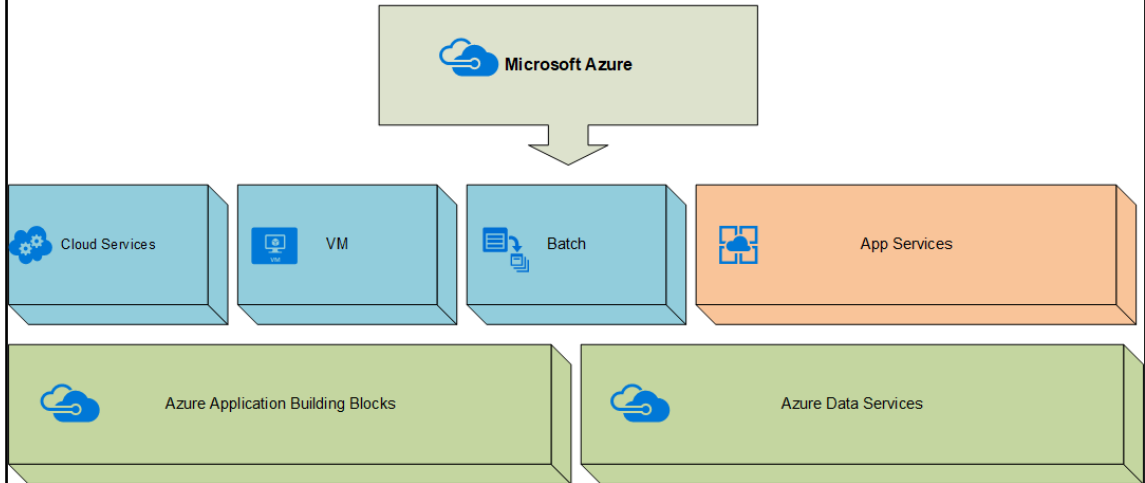
Chapter 01: An Introduction to the Microsoft Azure Platform



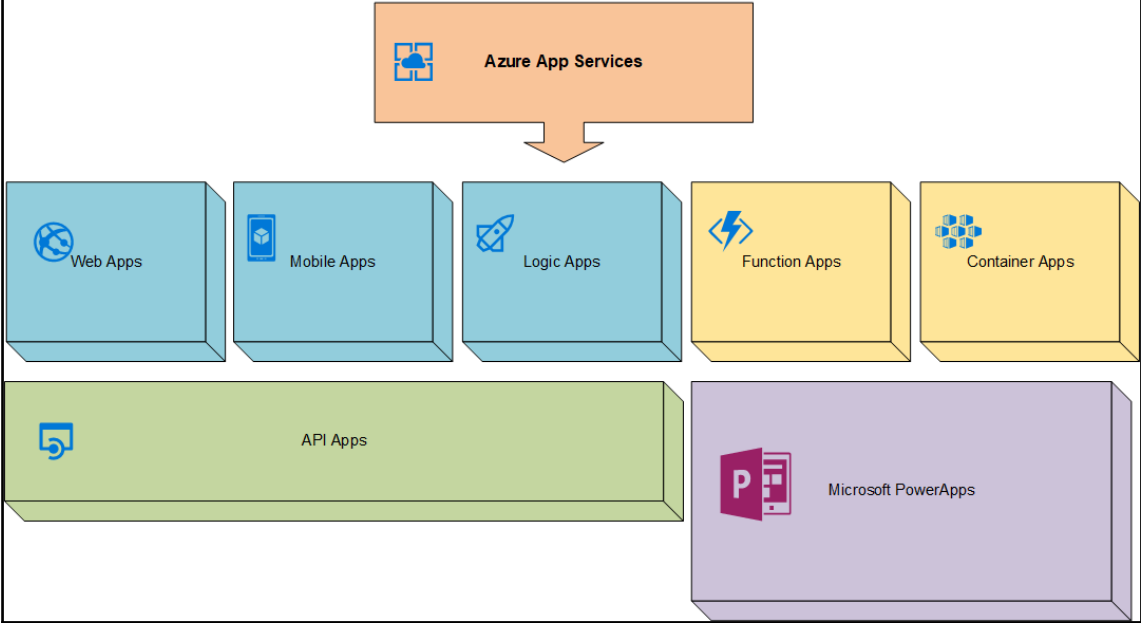




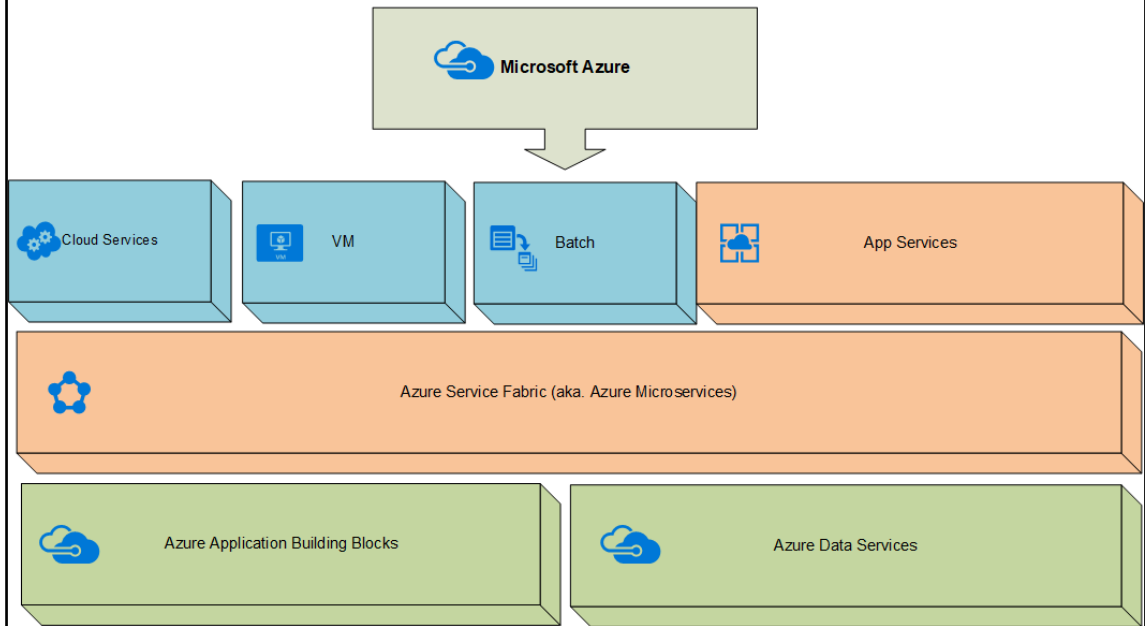
Azure Execution Models



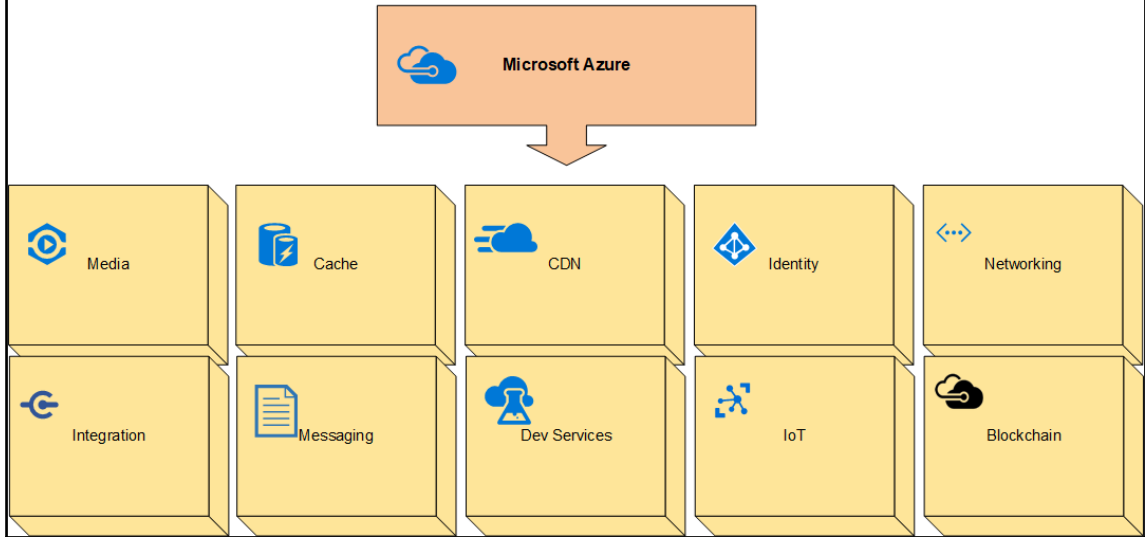
Azure App Services



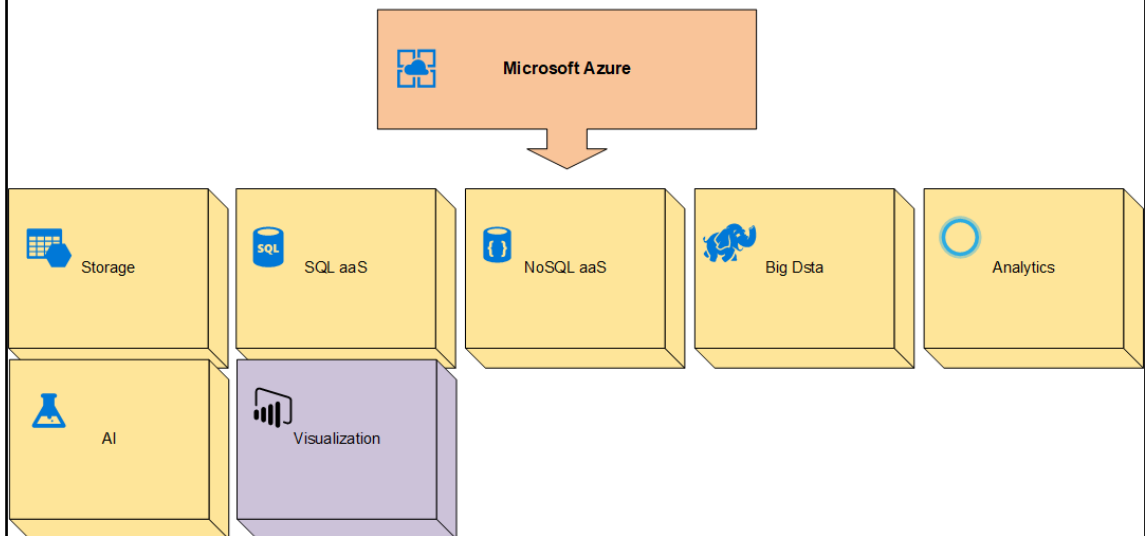
Azure Execution Models

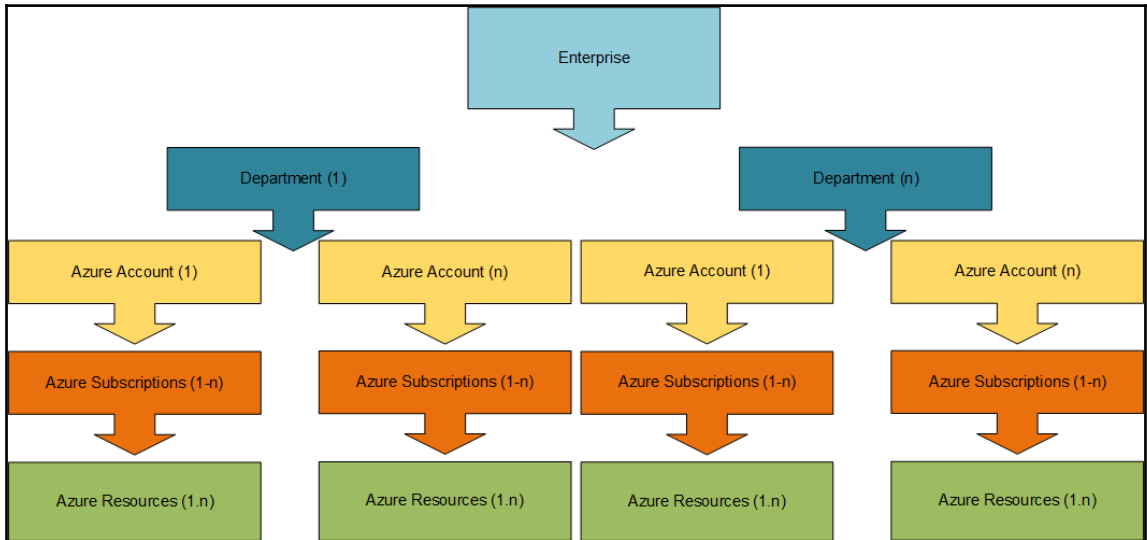
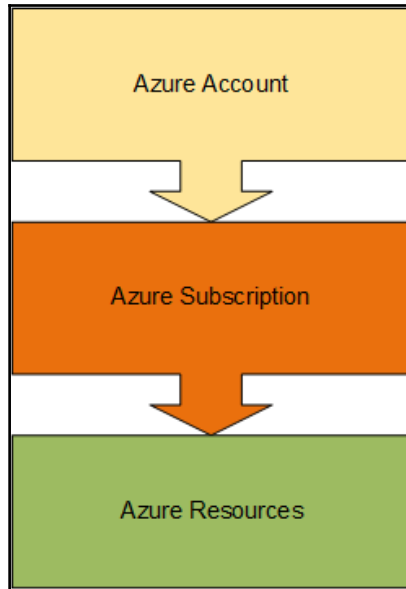


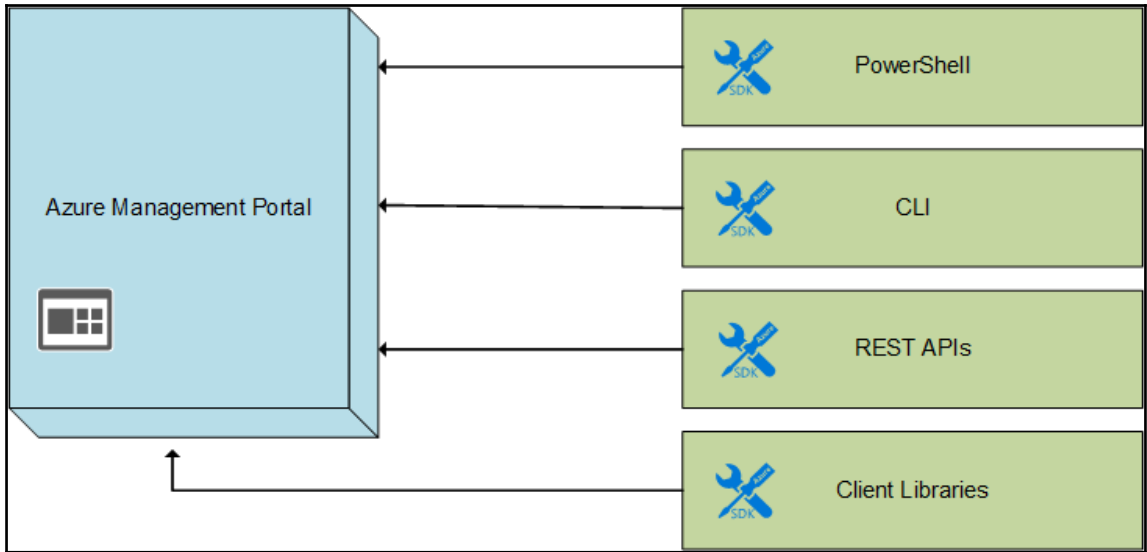
Azure Application Building Blocks



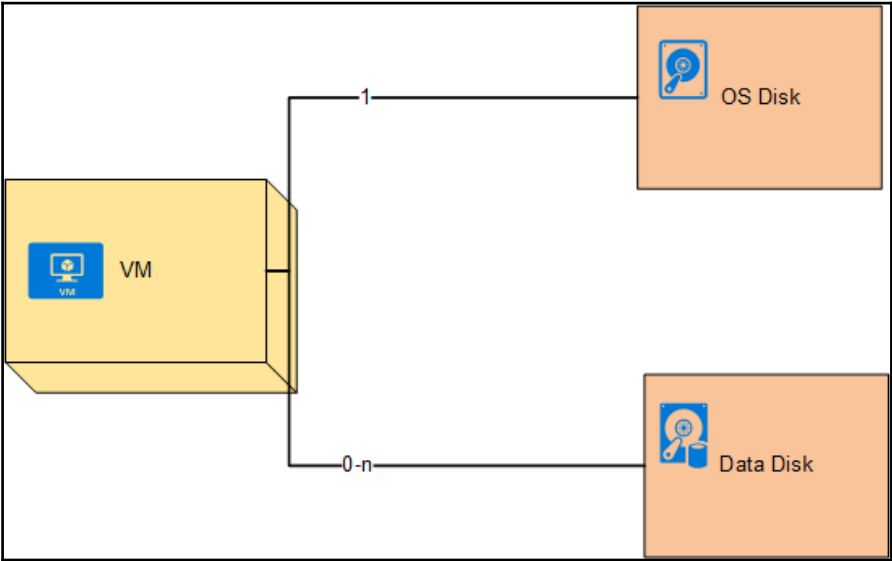
Azure Data Services

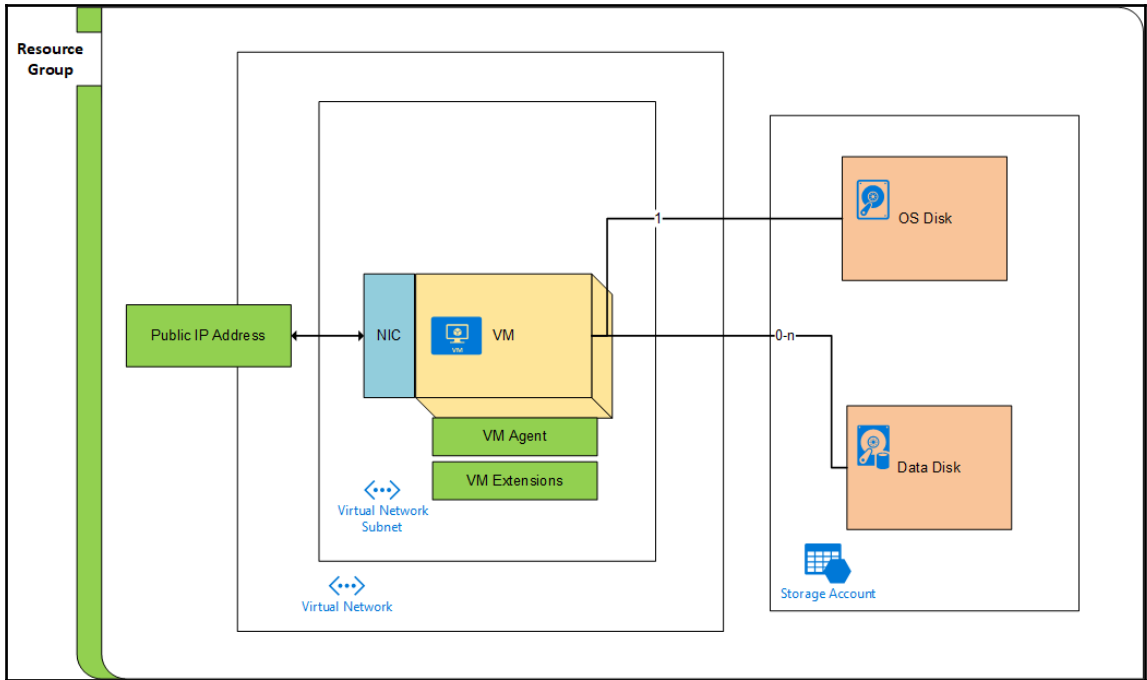


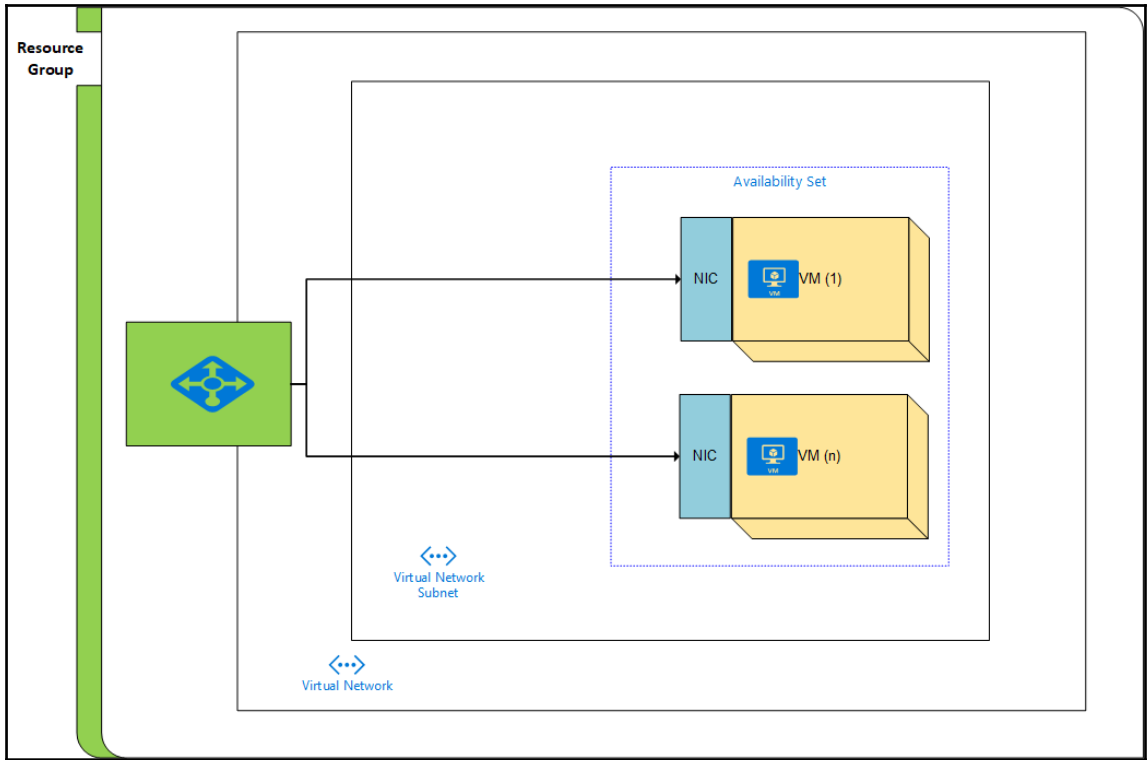


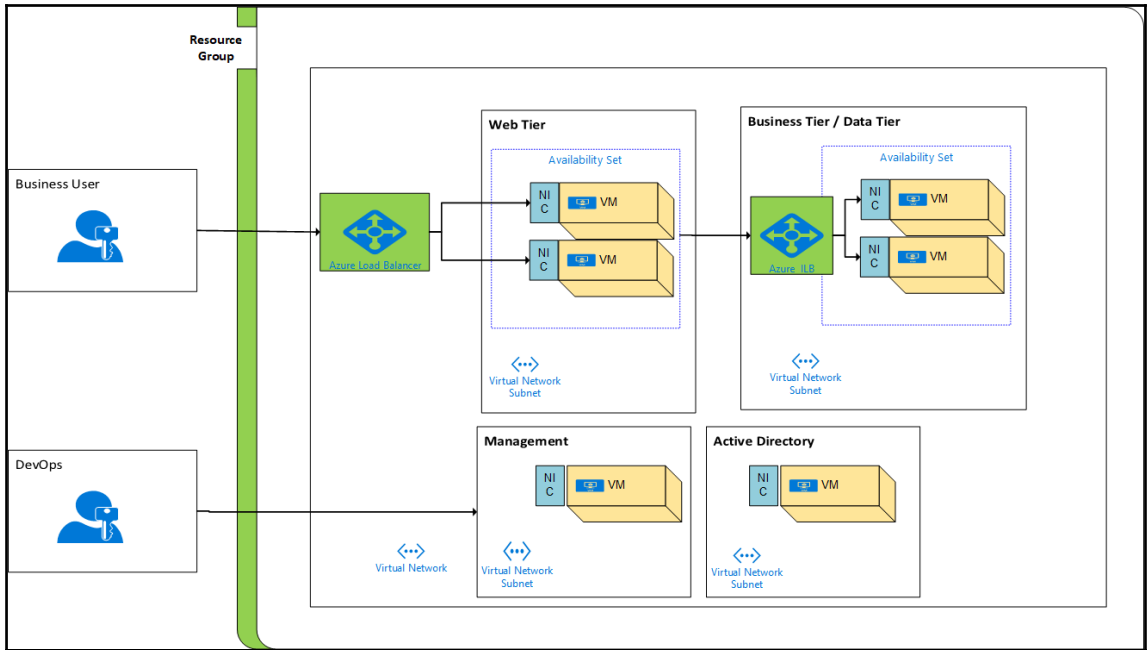


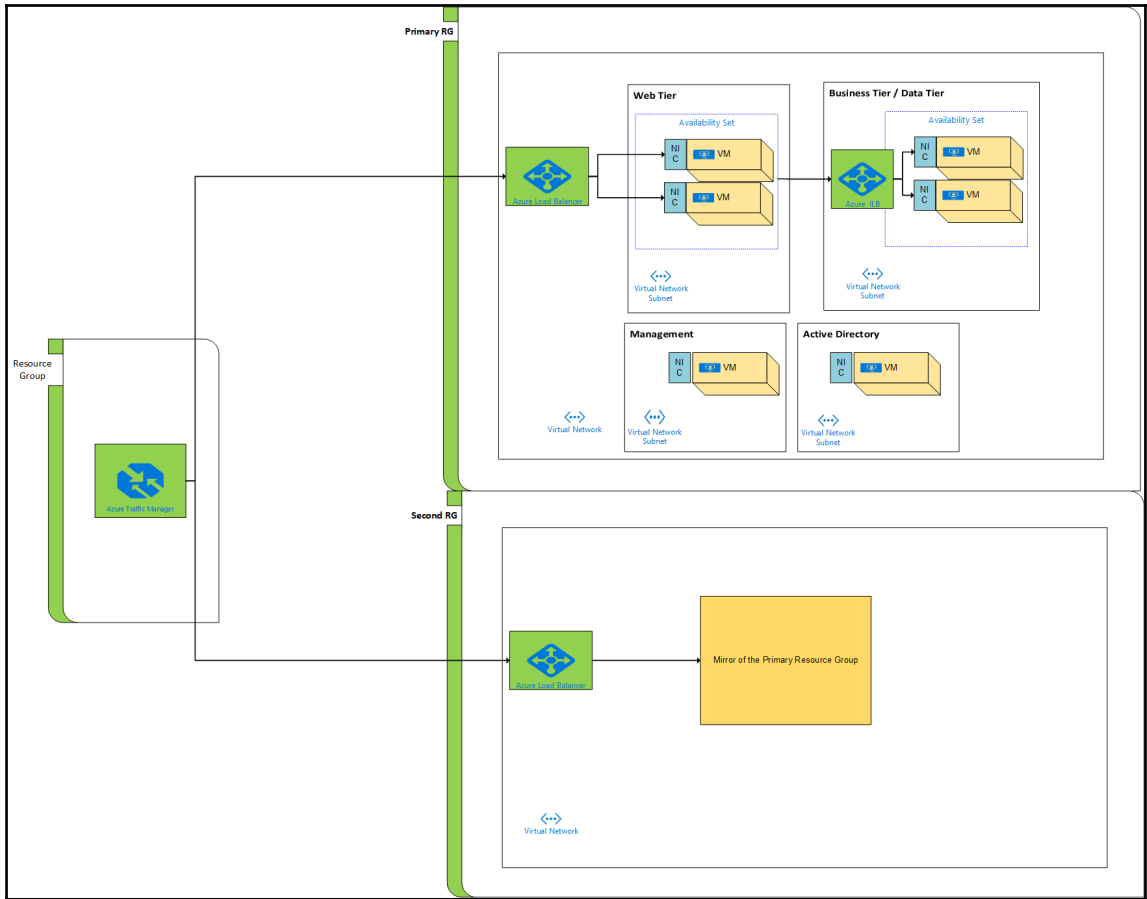
Chapter 02: Compute Design and Management

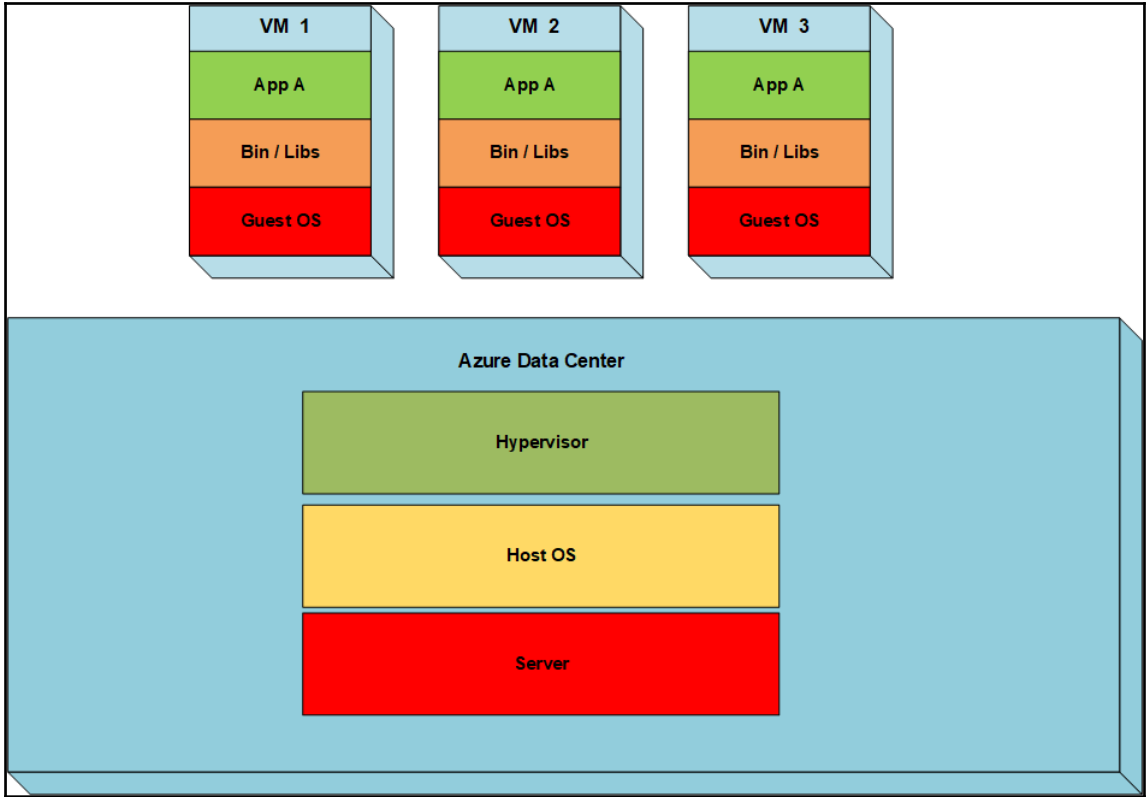


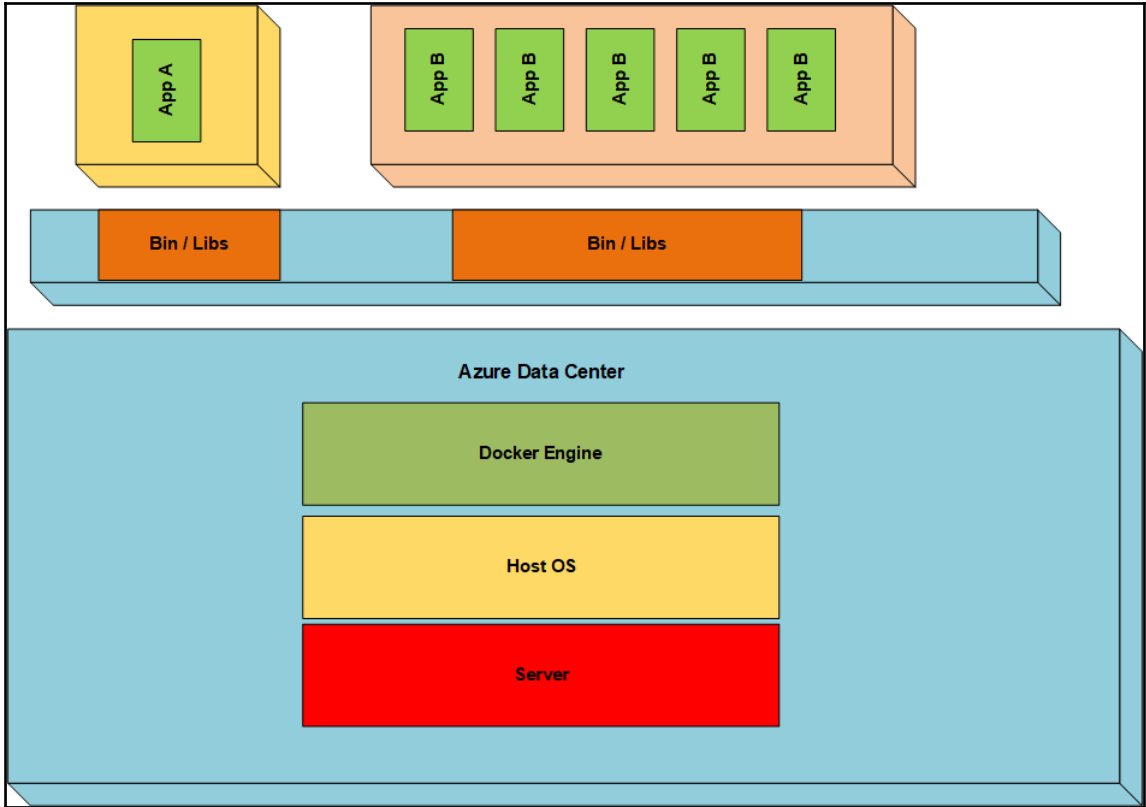


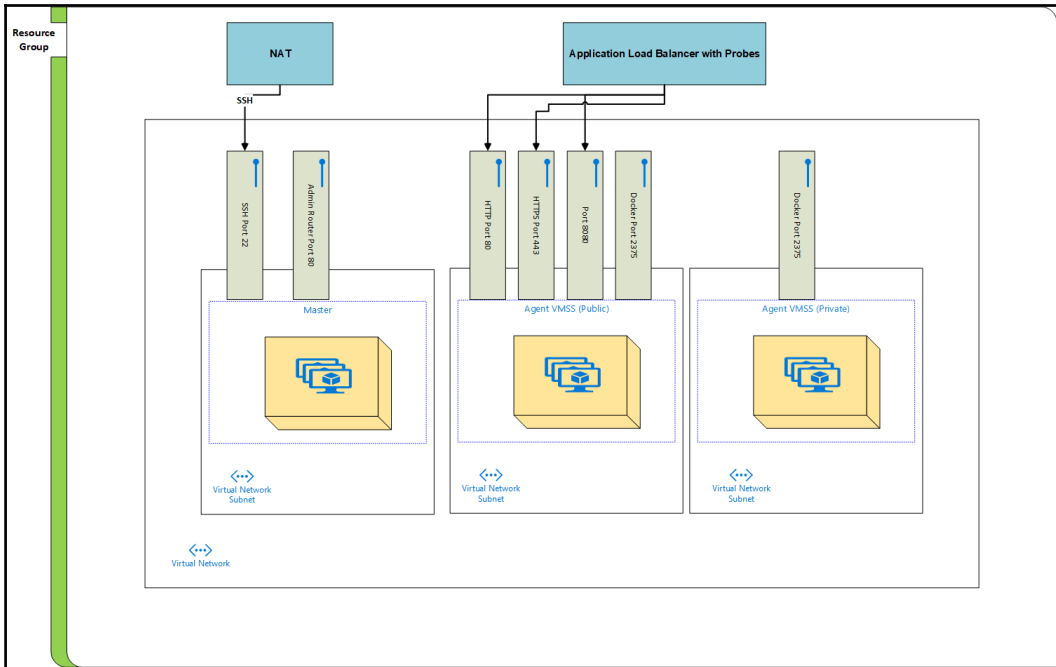


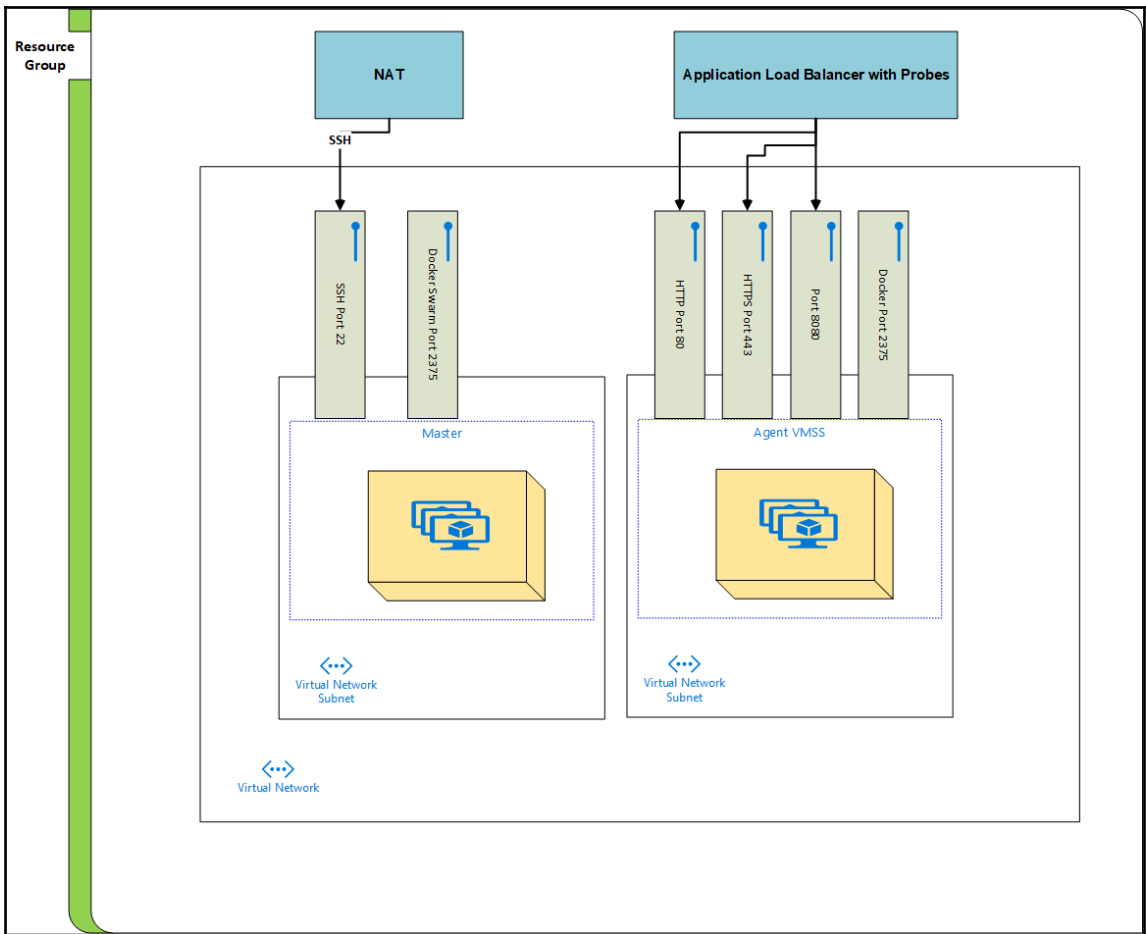


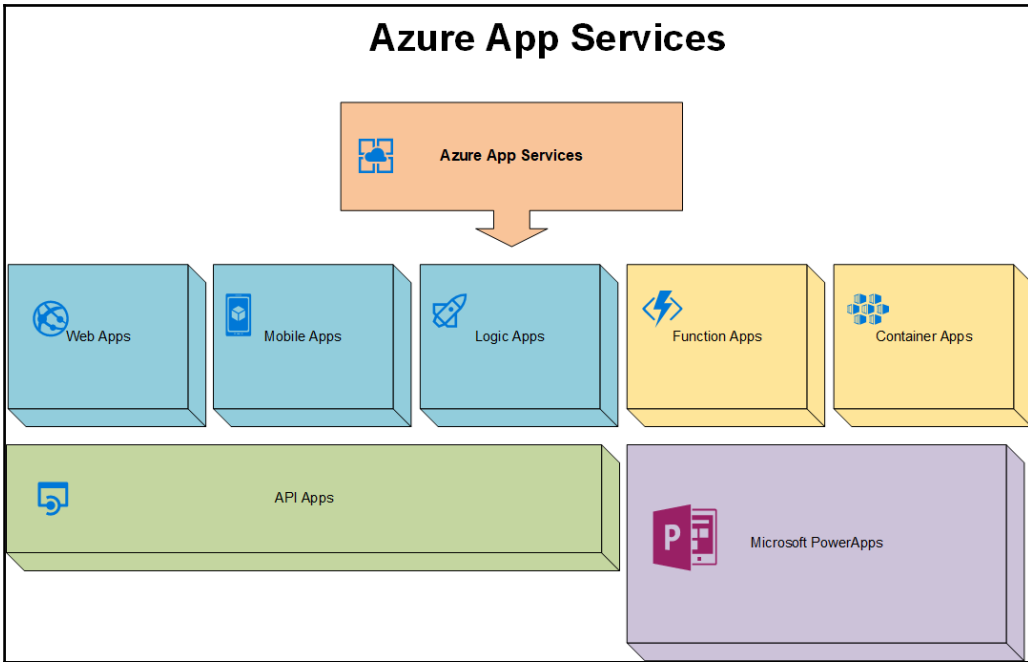
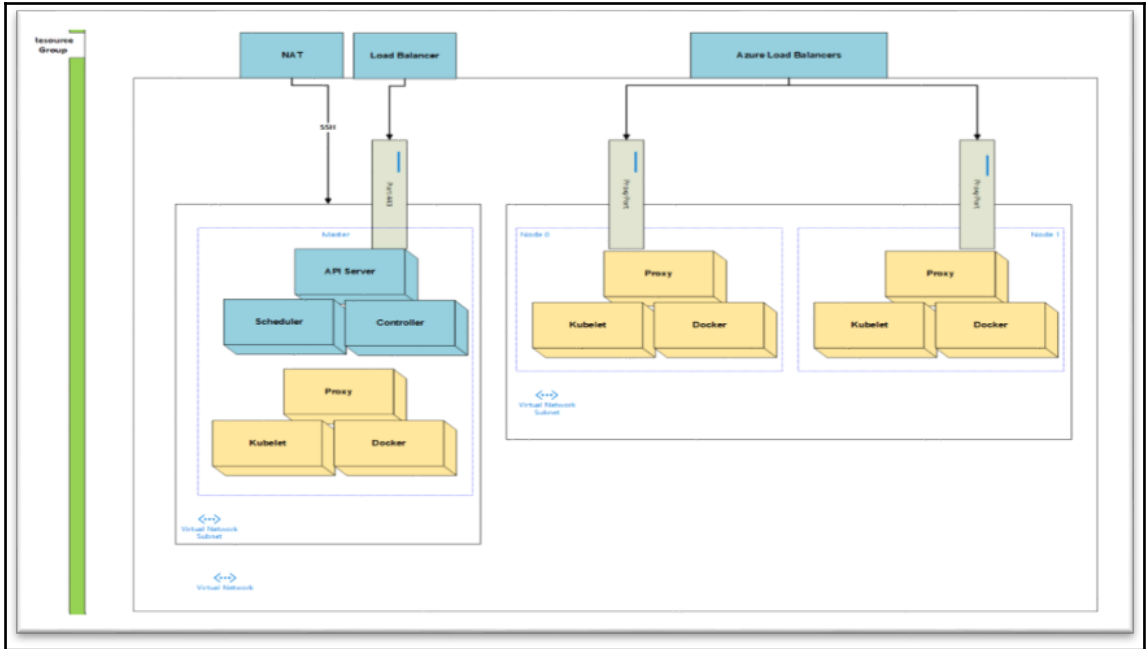


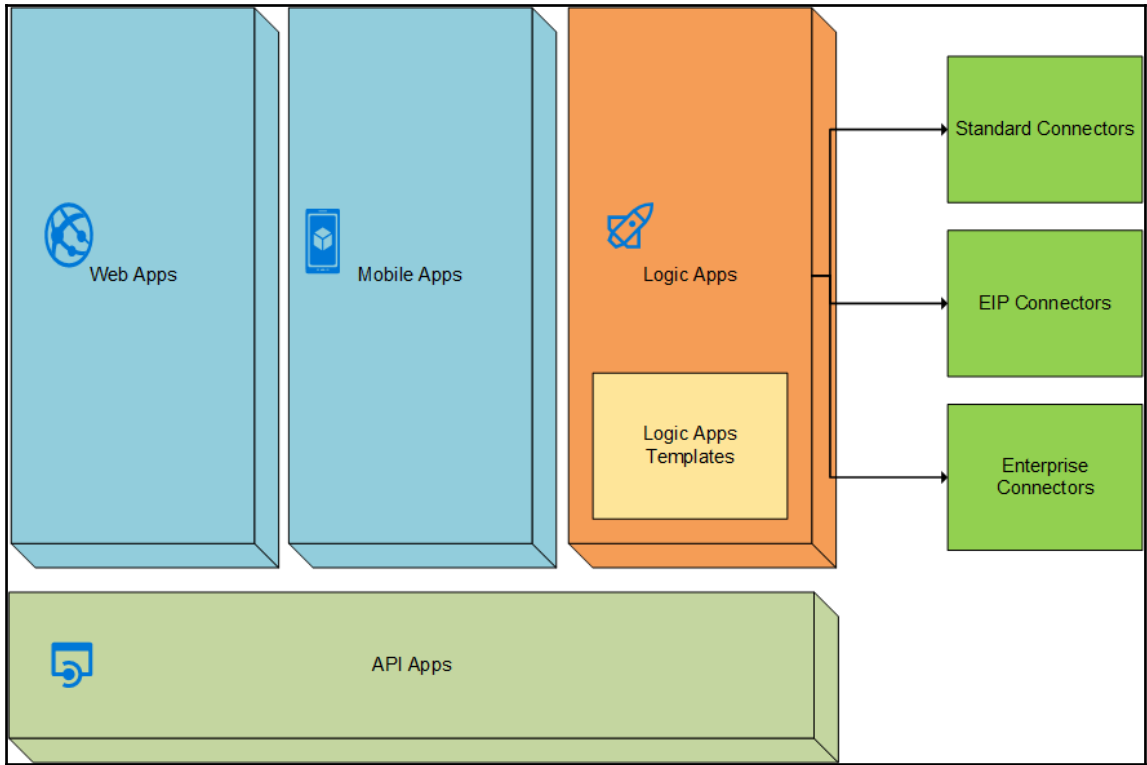


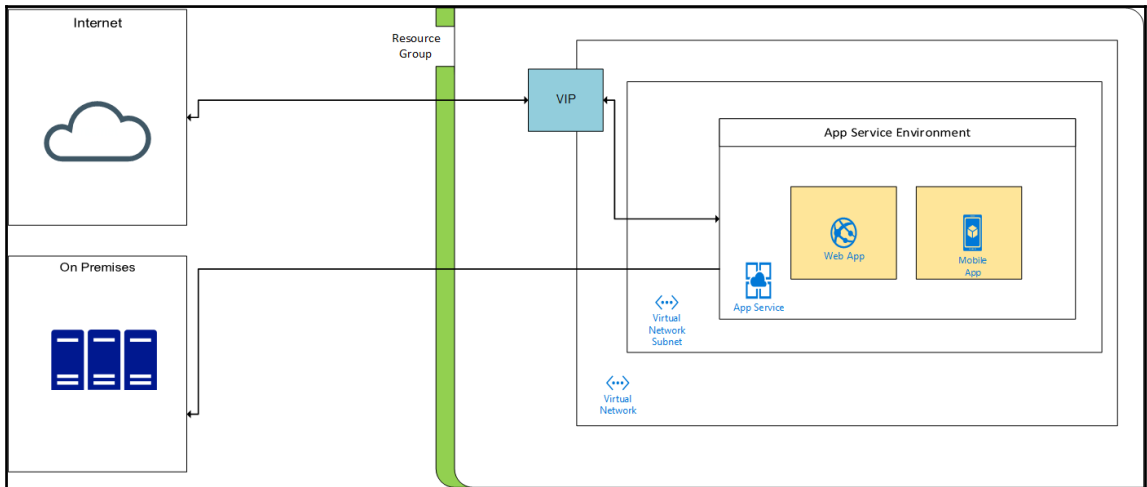
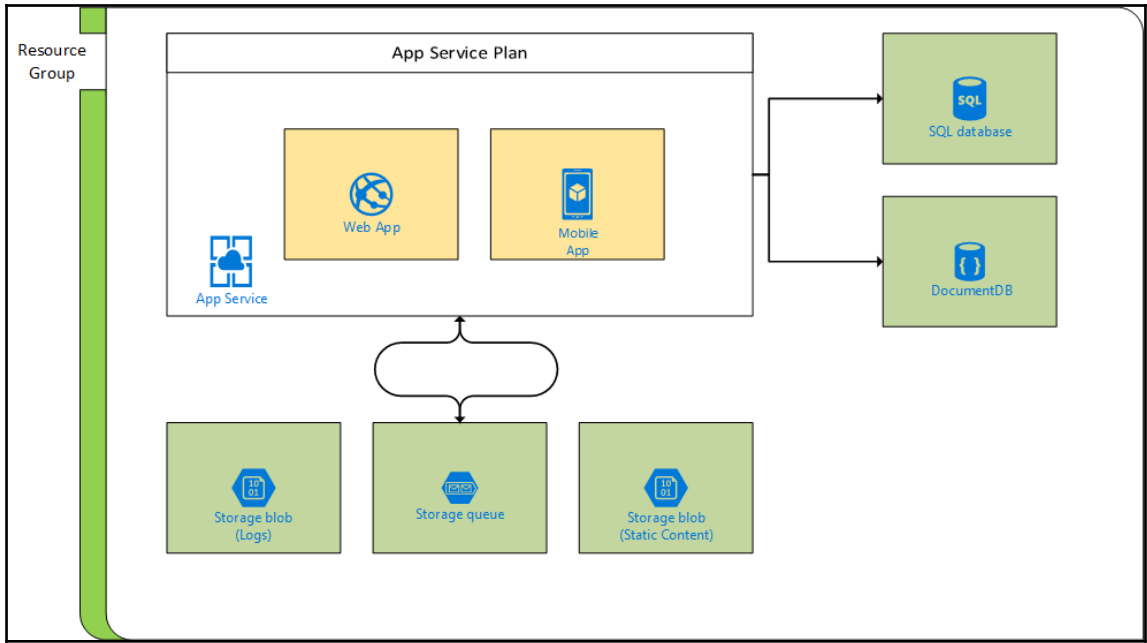


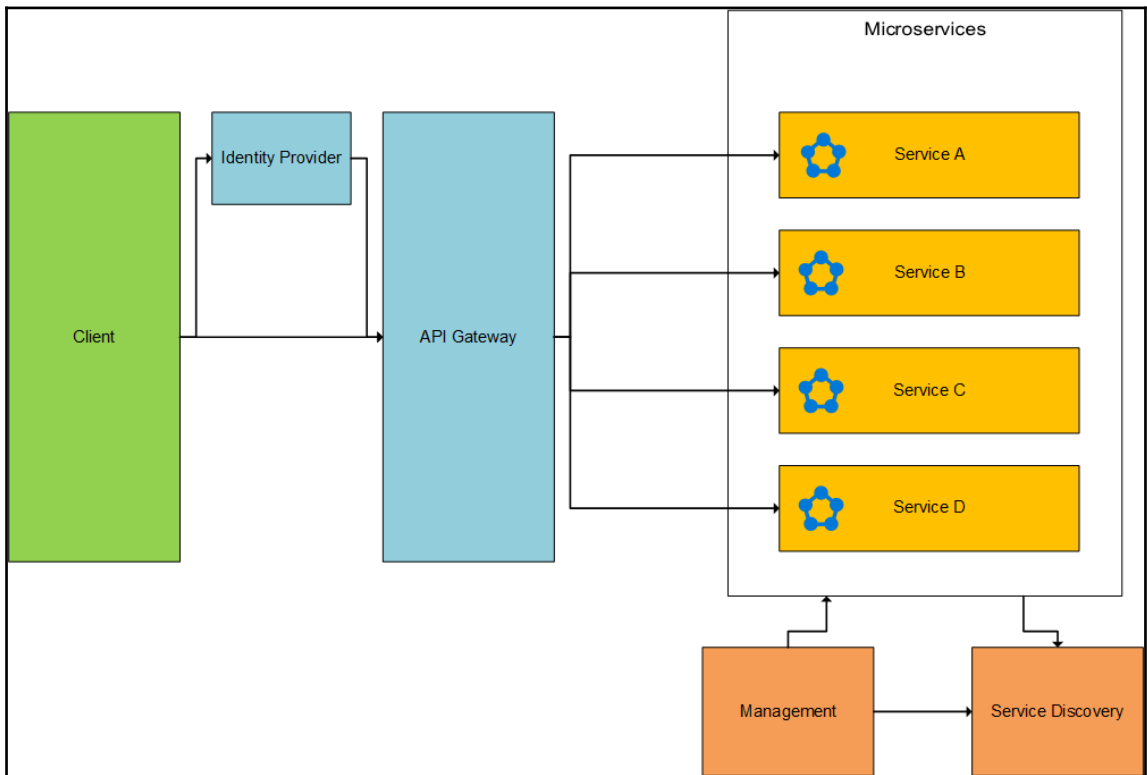
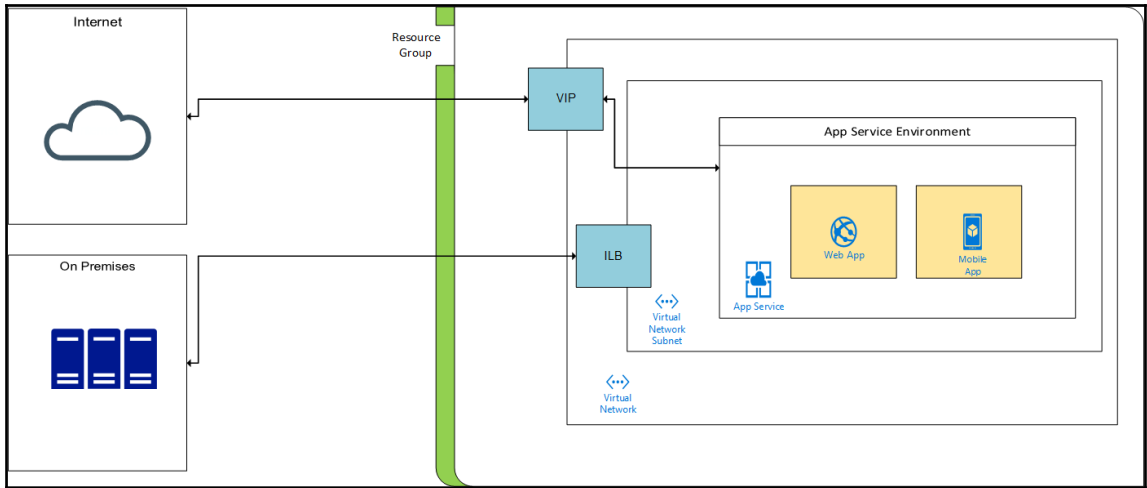


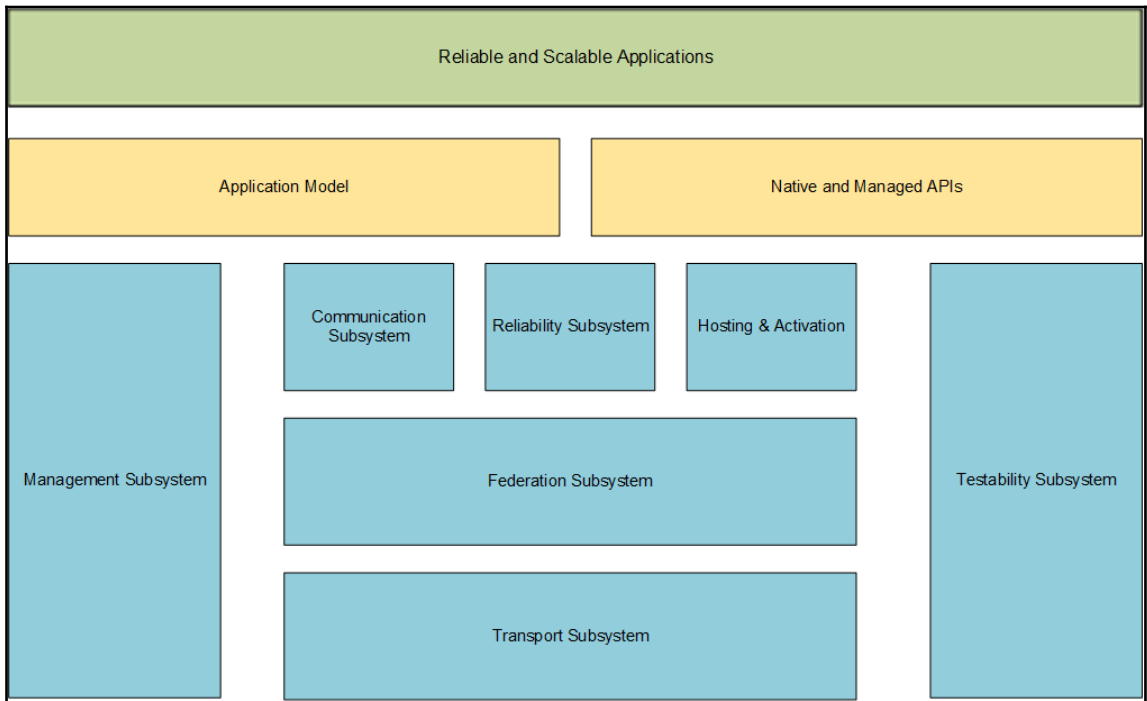
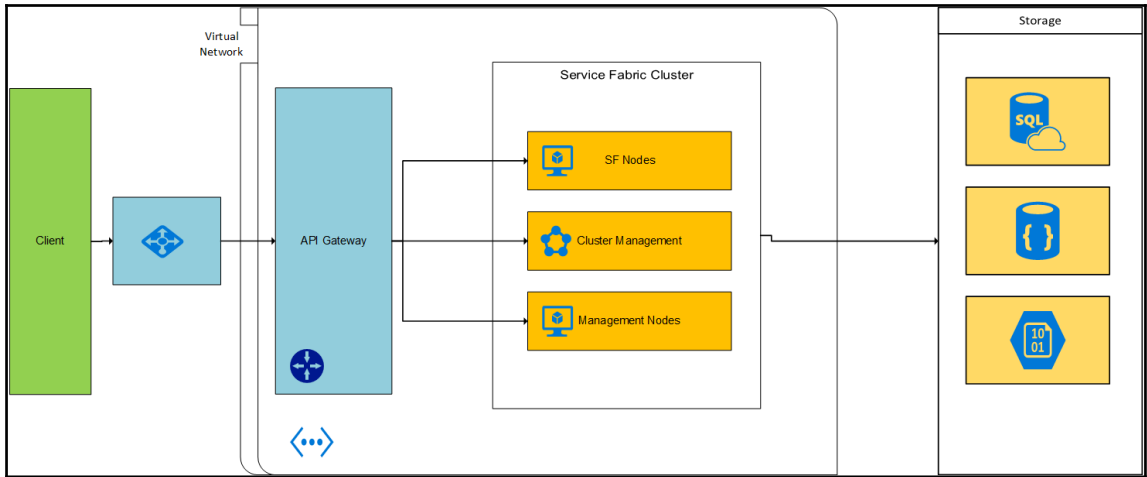




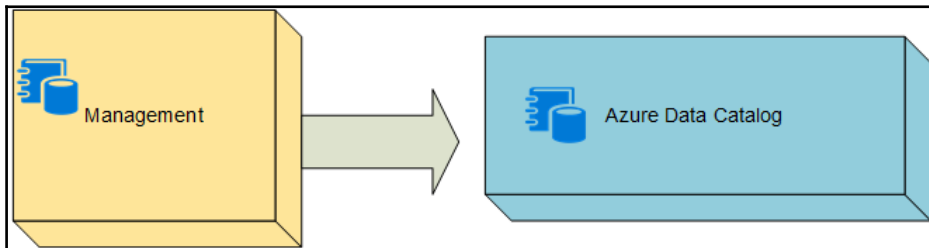
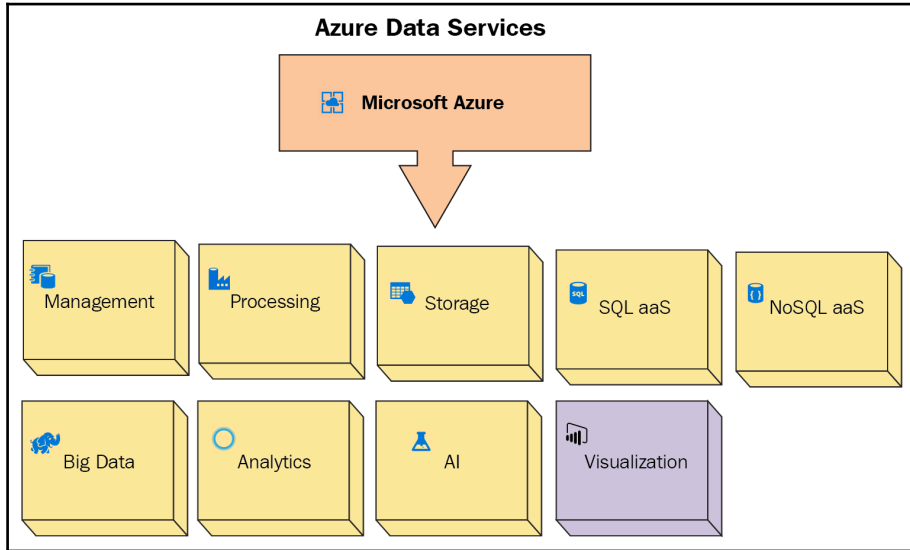


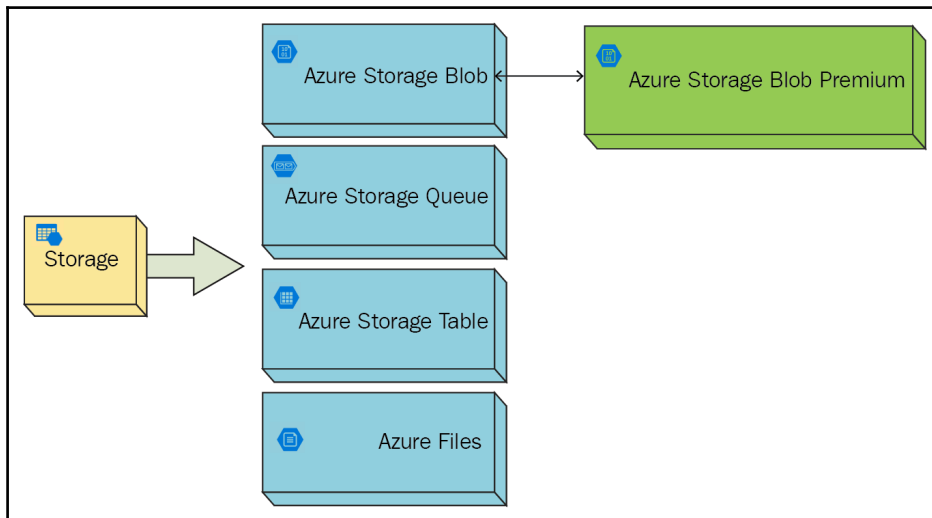
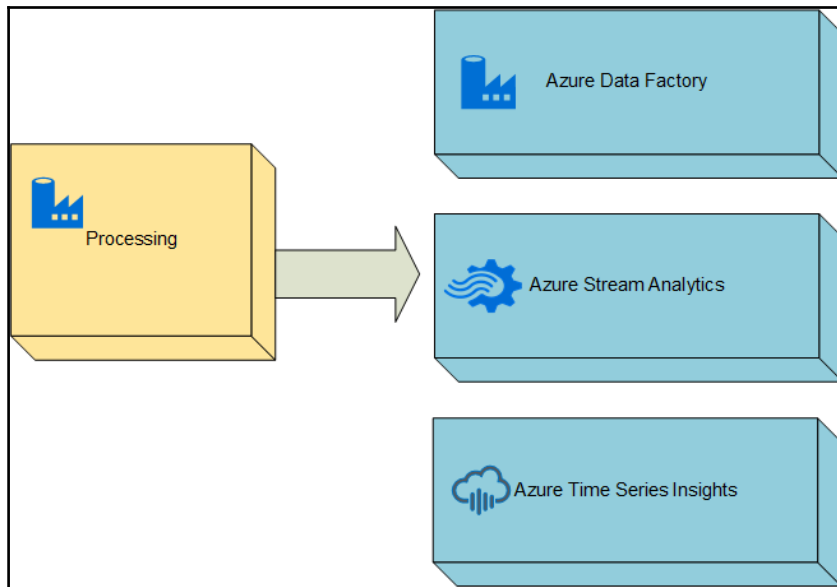


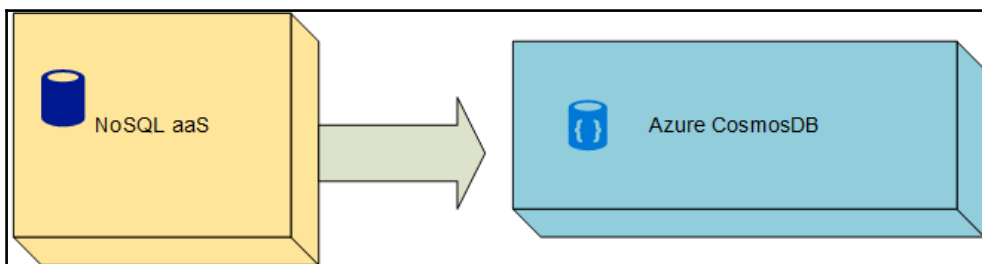
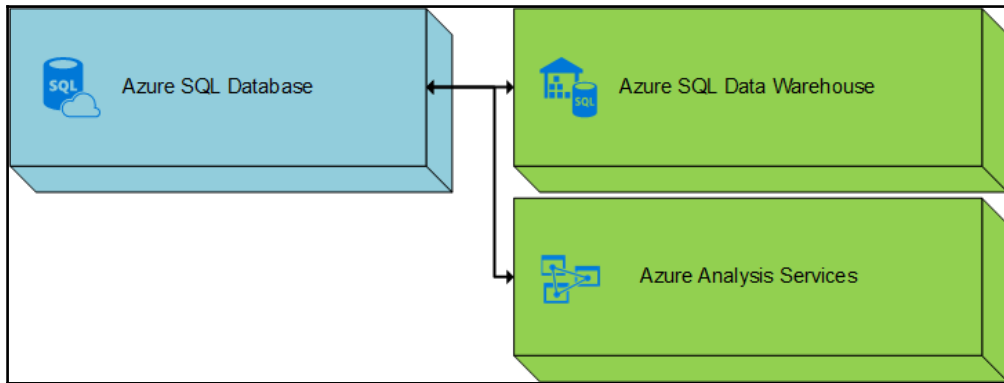
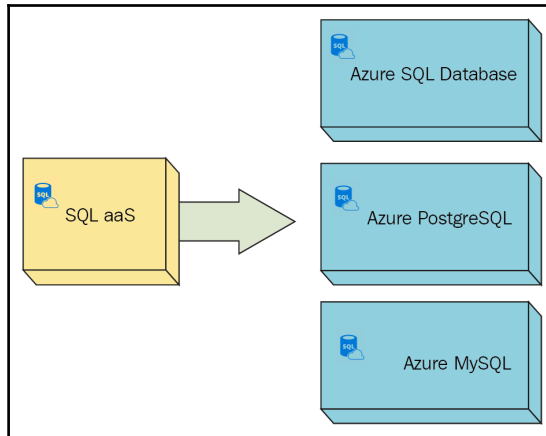


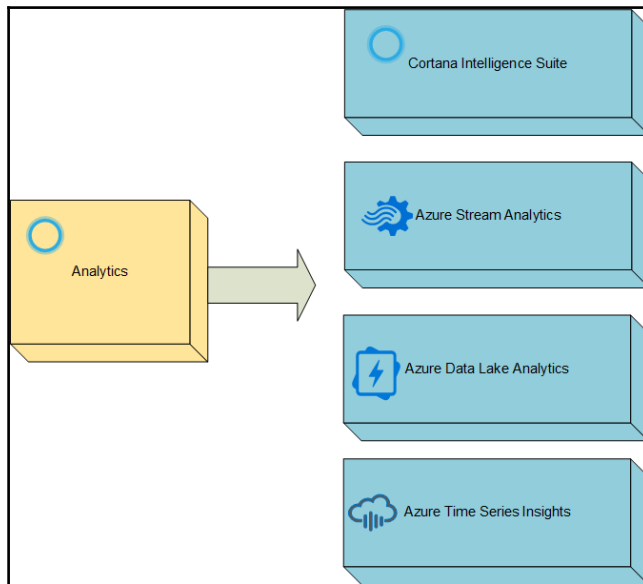
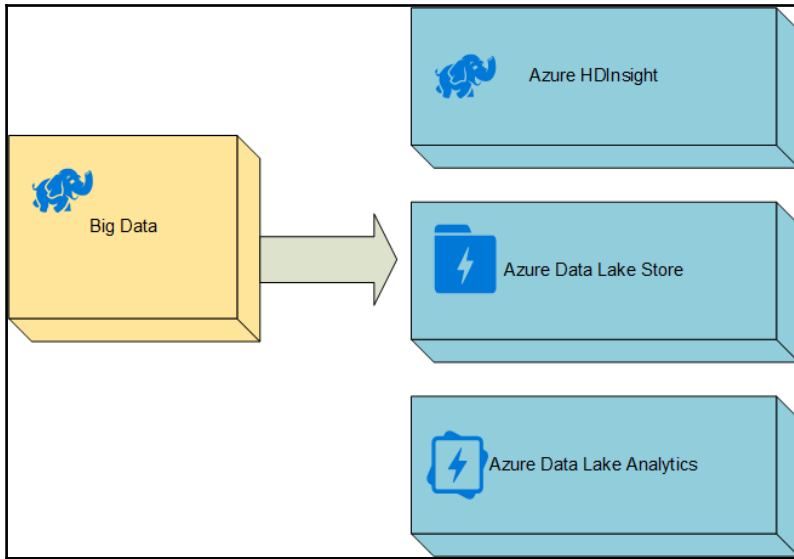


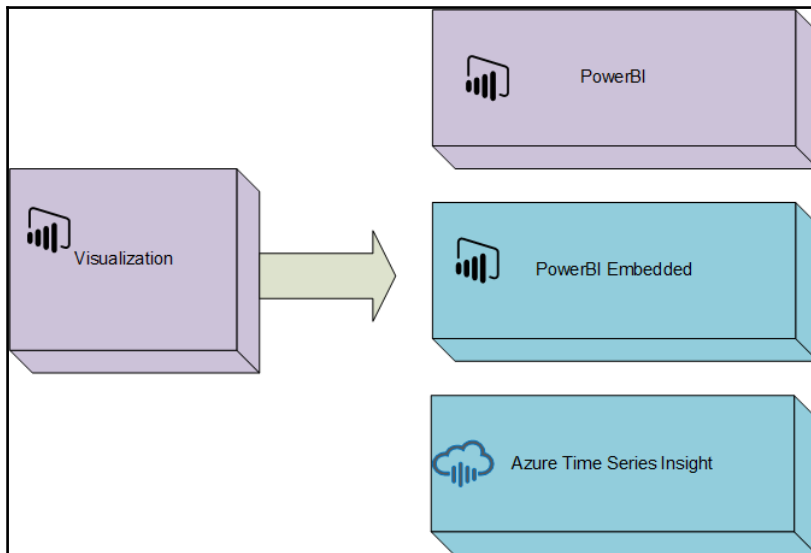
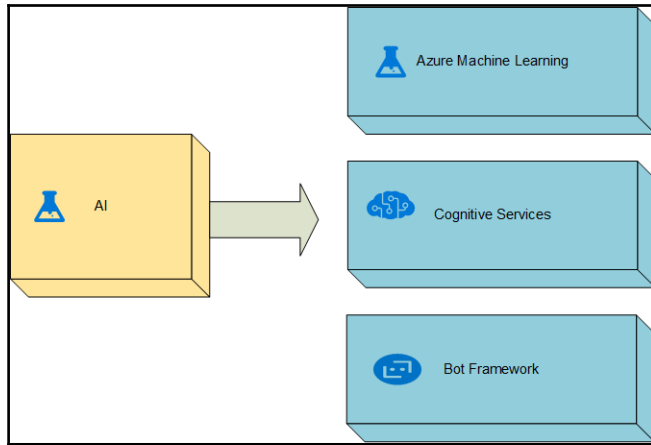
Chapter 03: Data Storing and Processing



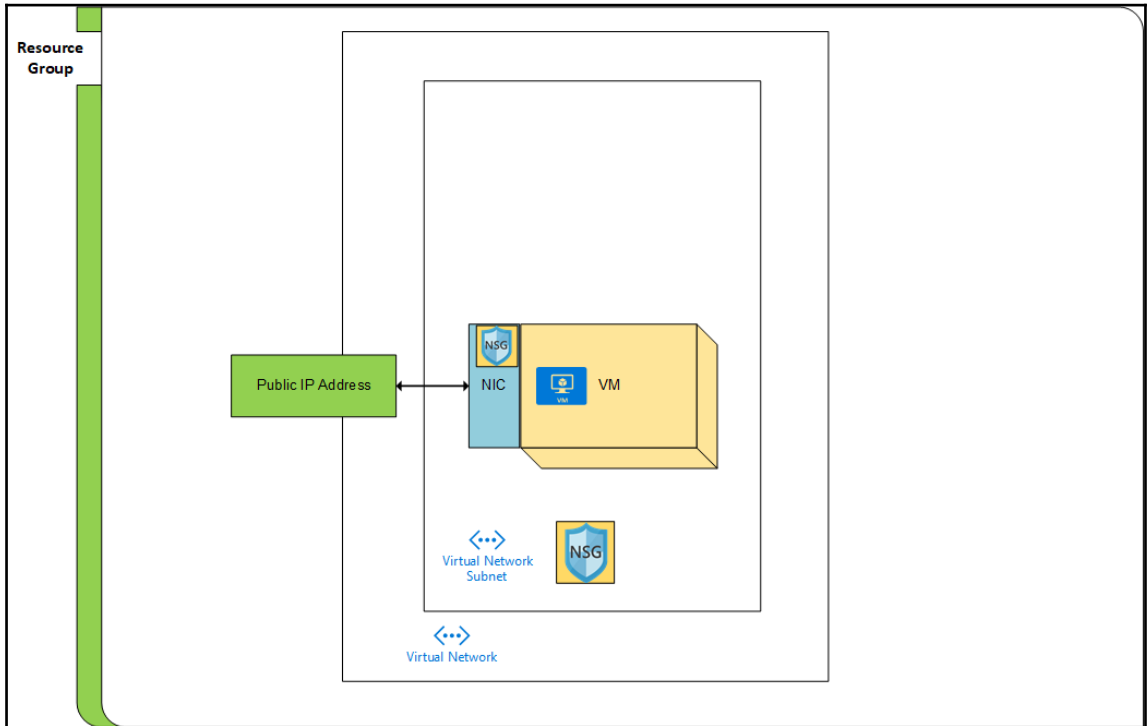


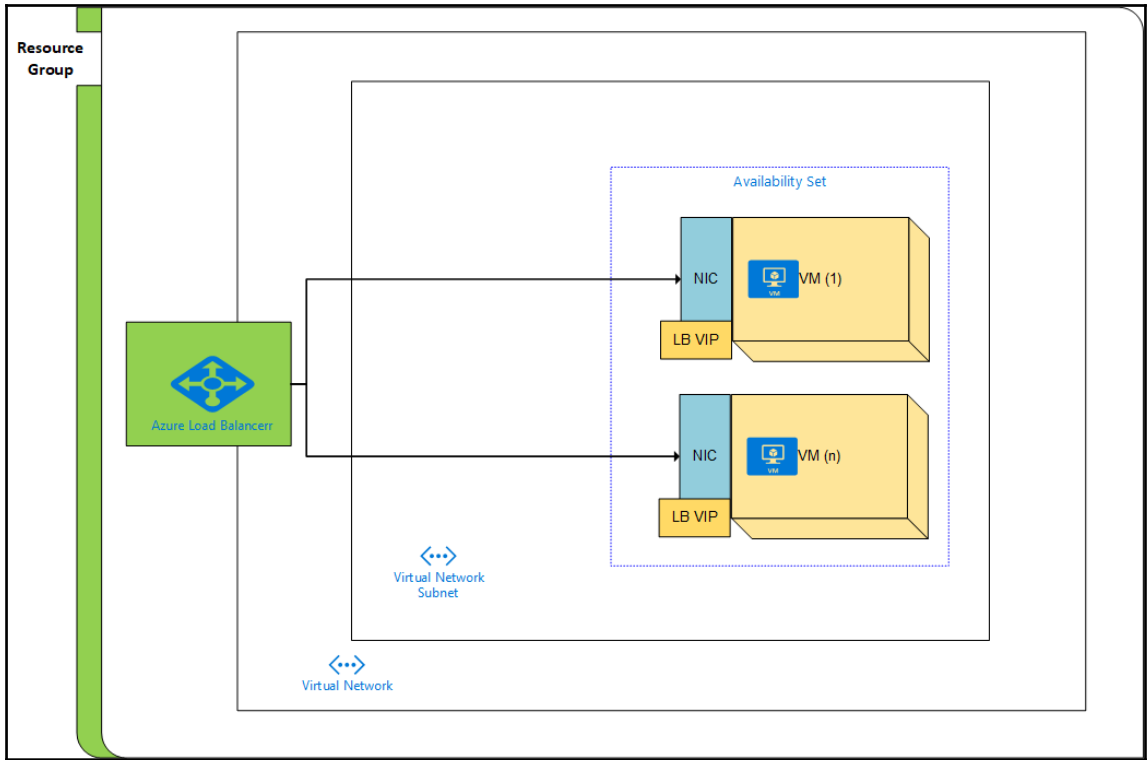


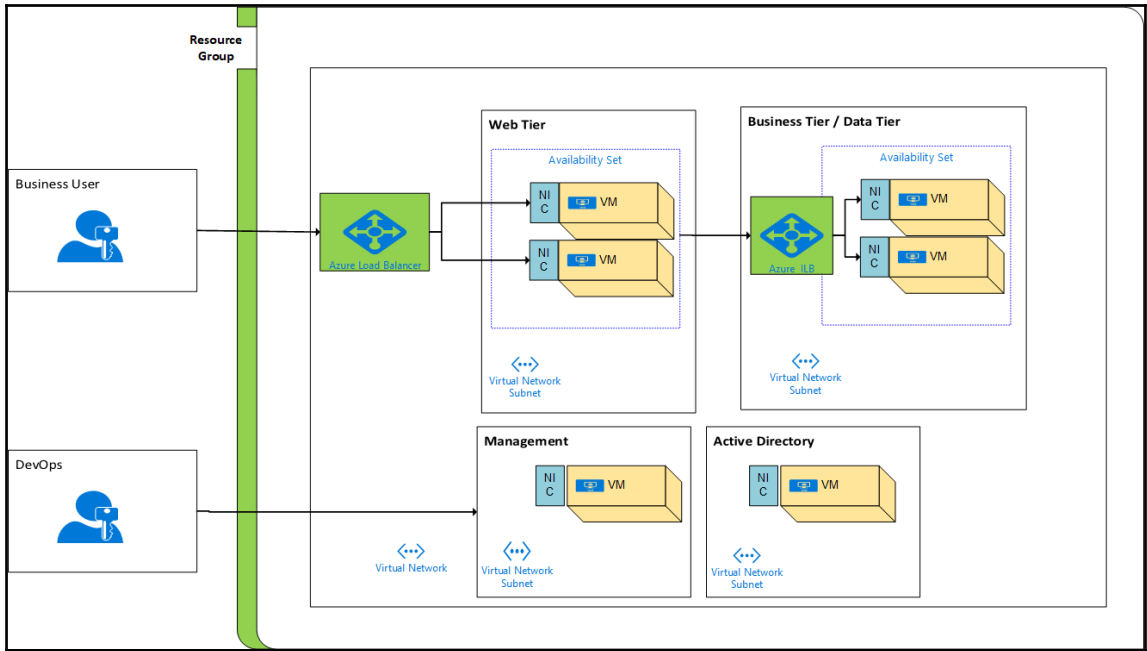


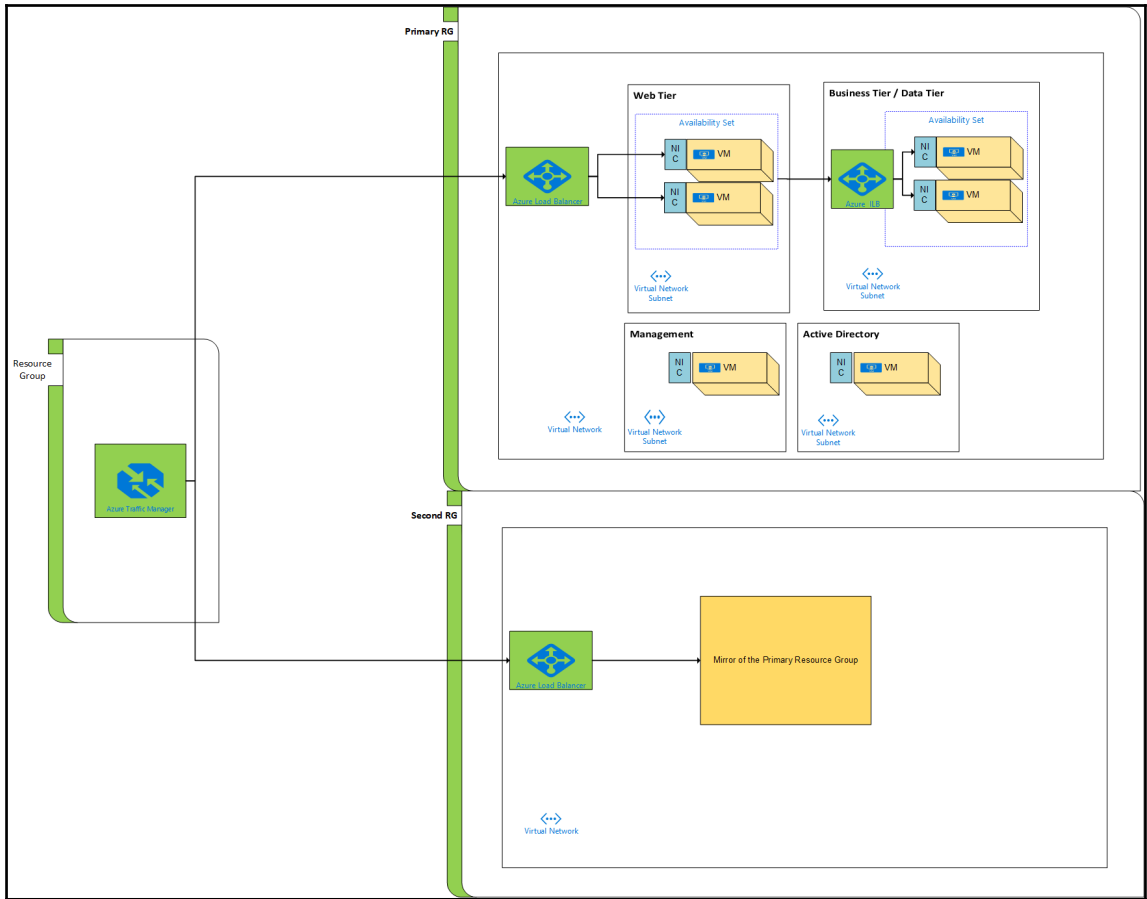


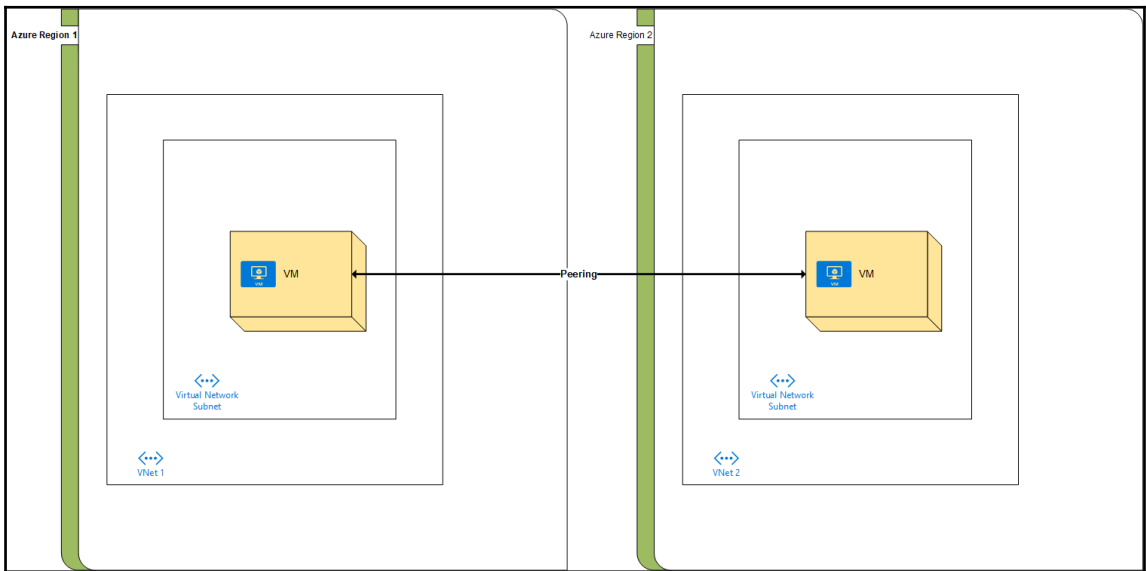
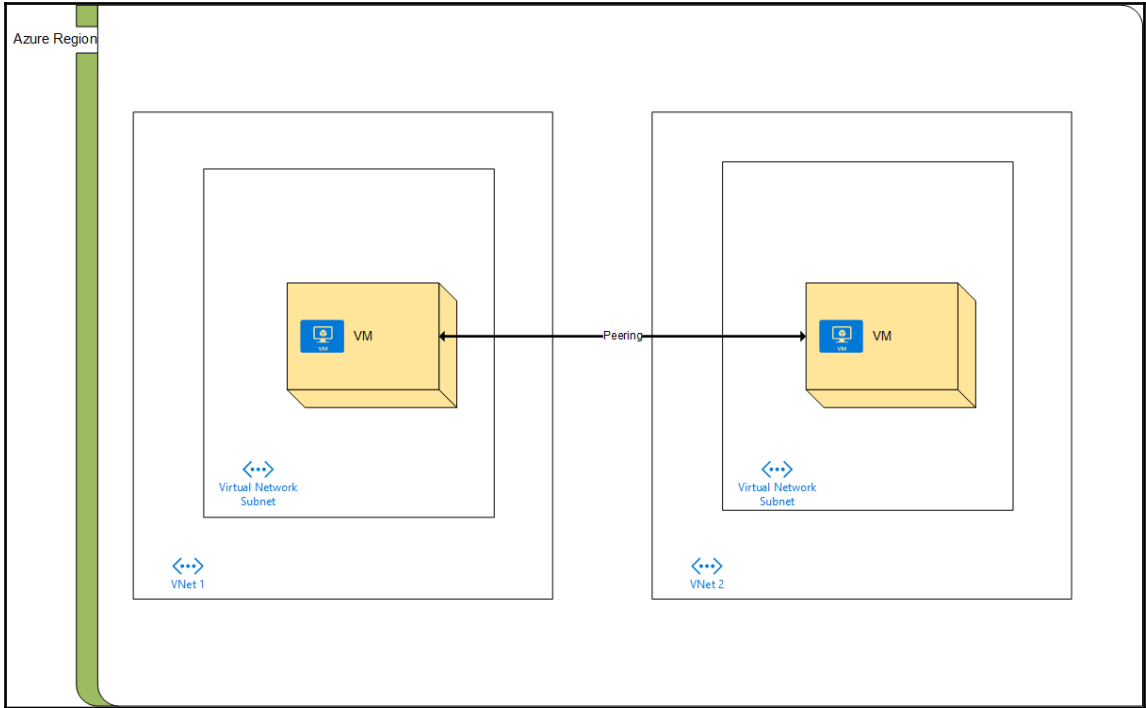
Chapter 04: Networking Design and Management

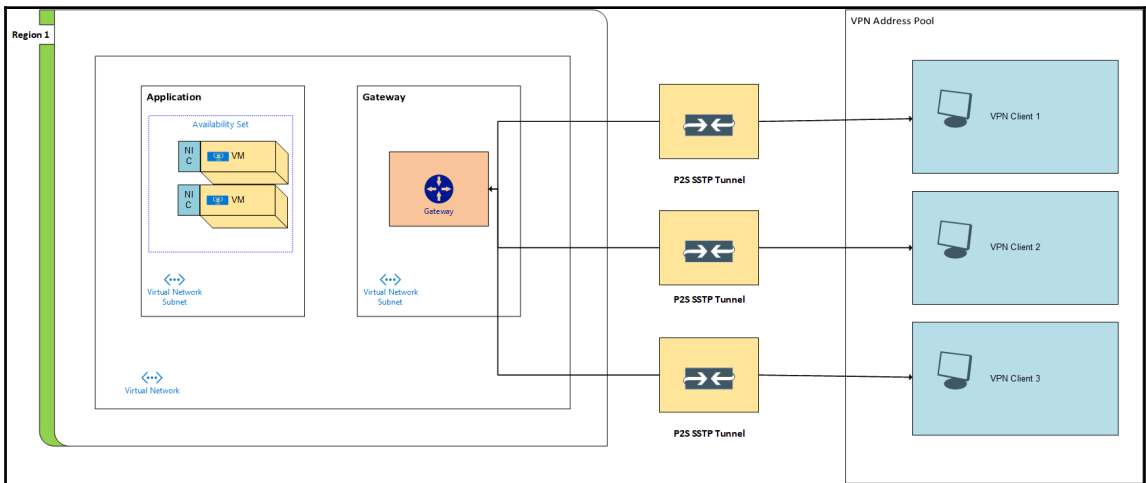
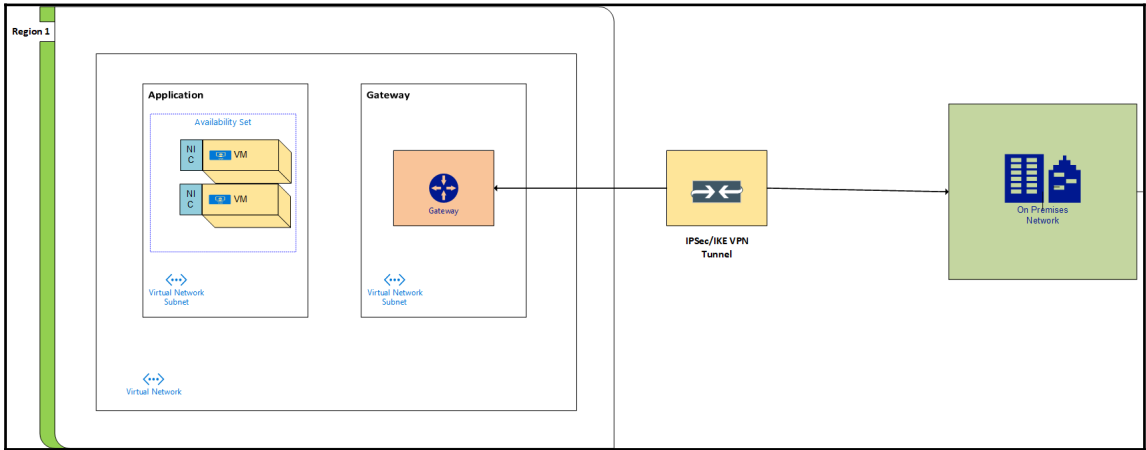
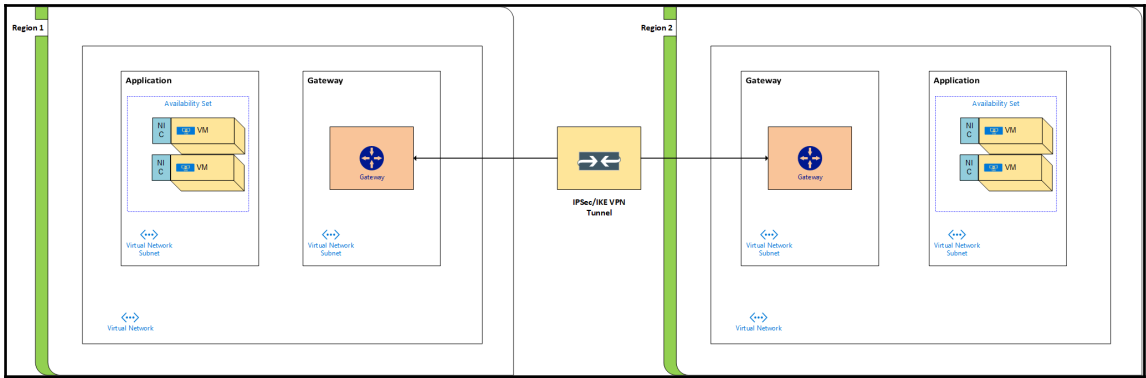


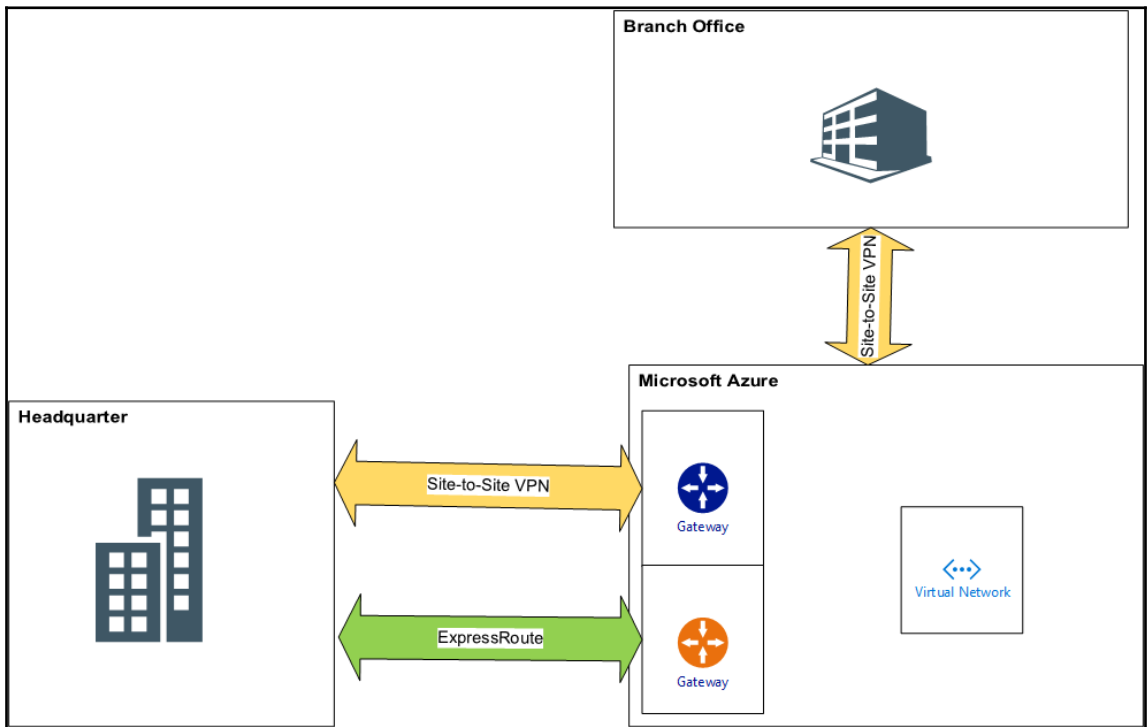
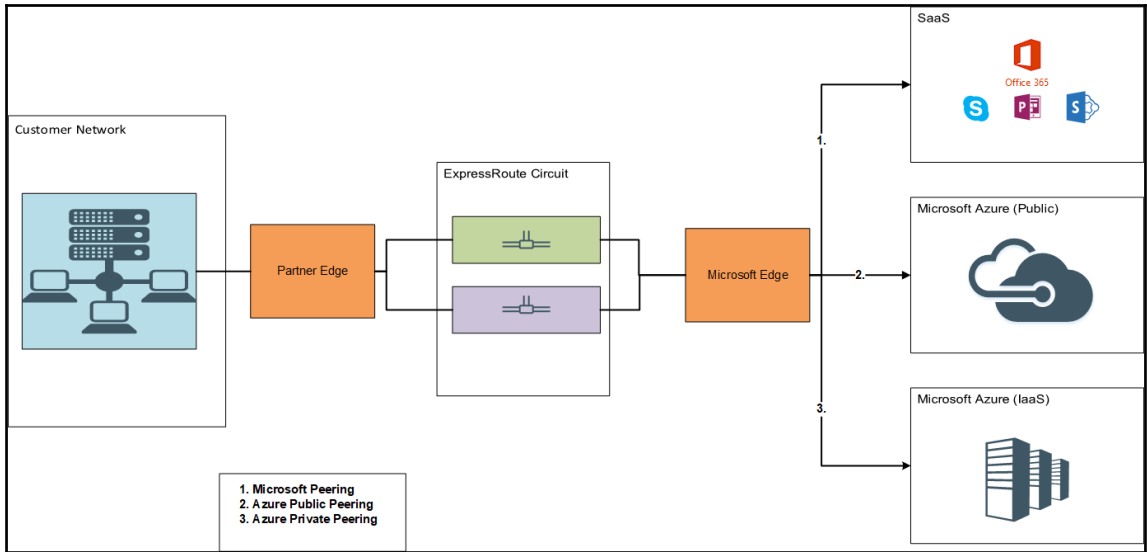




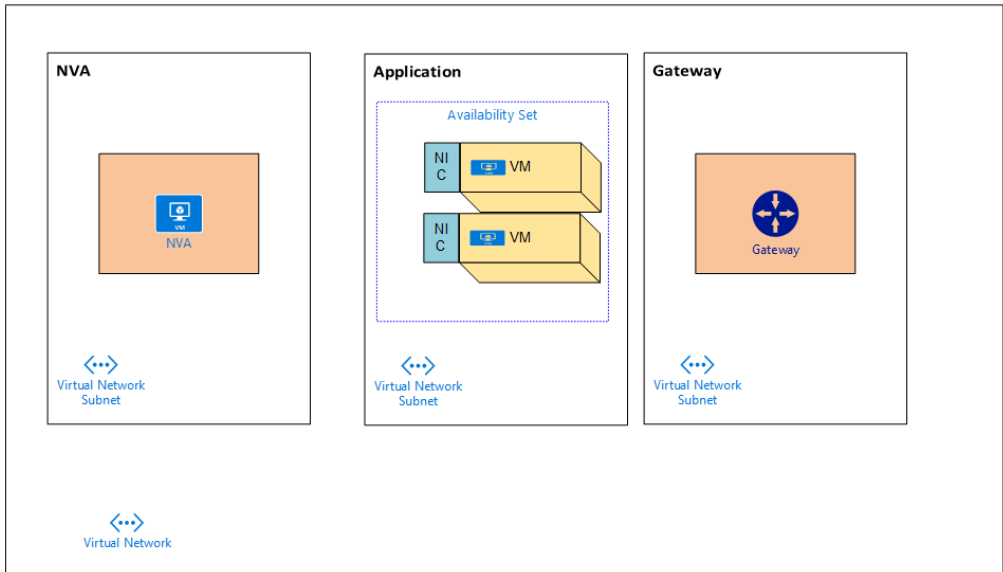




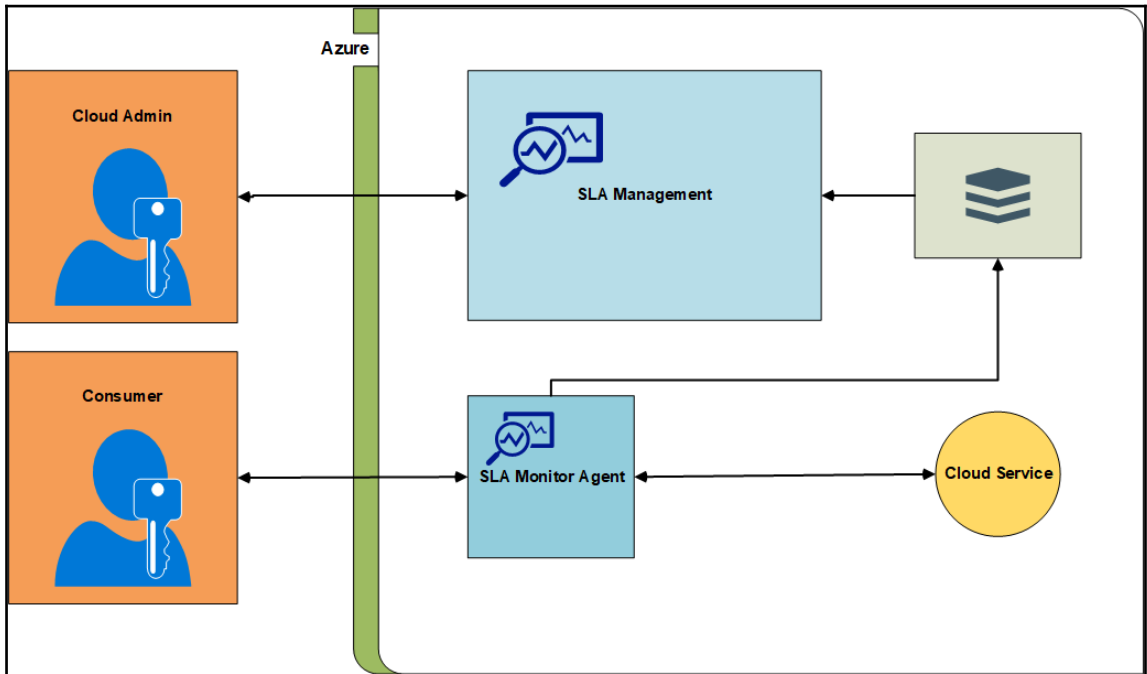


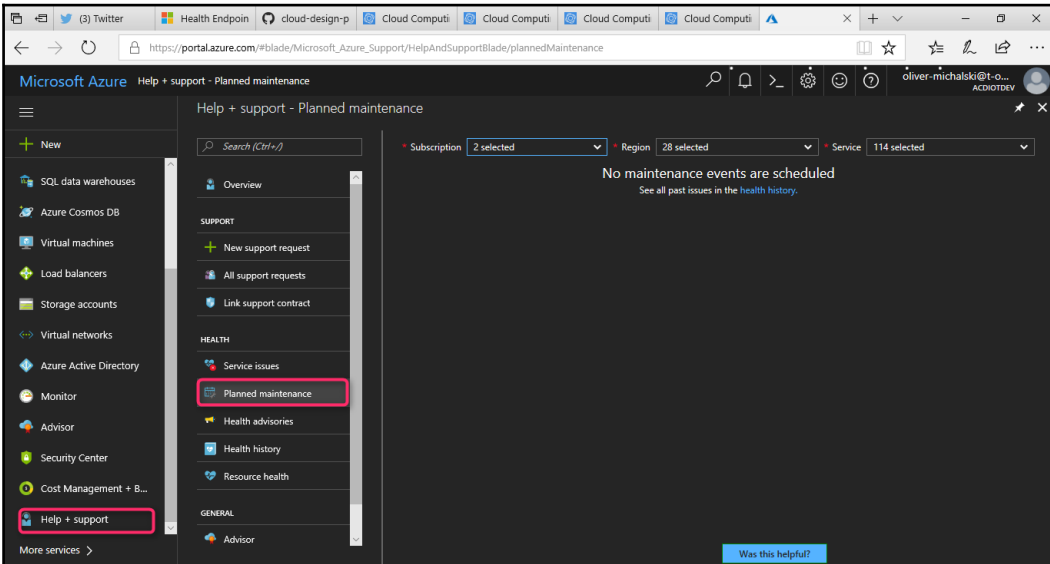
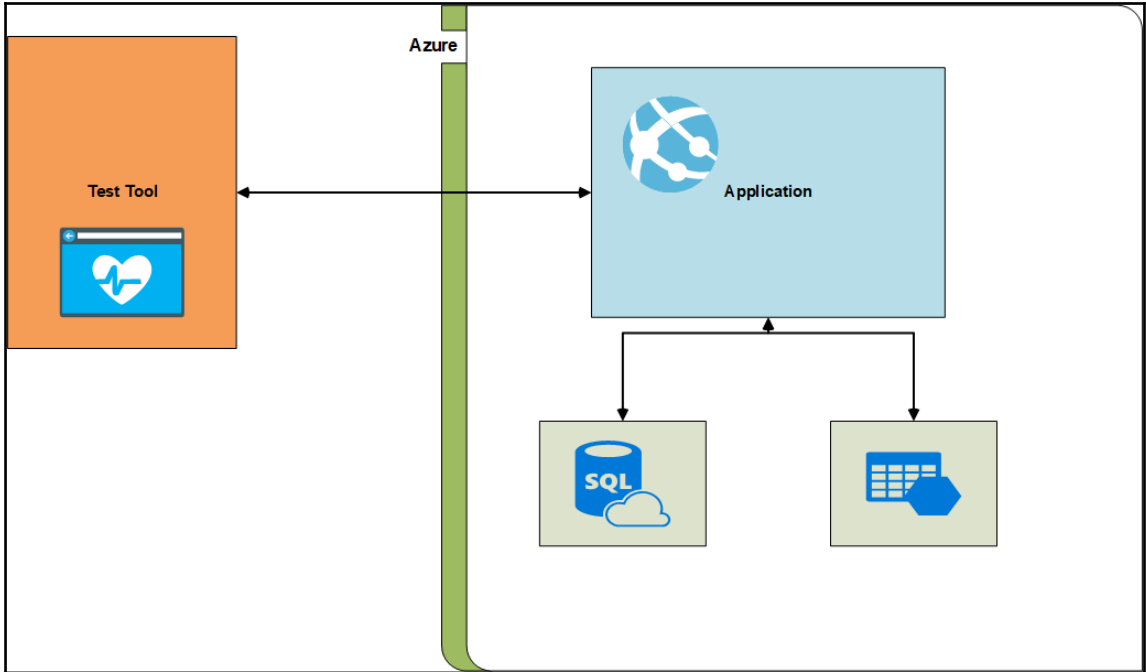


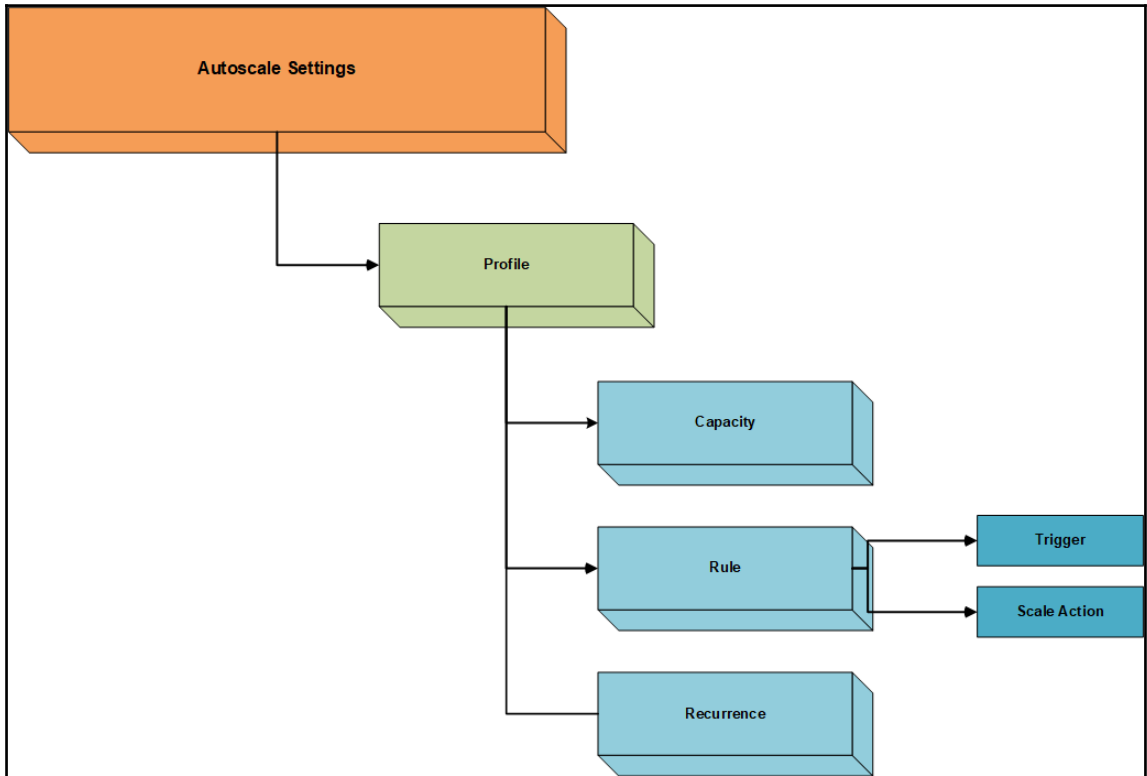
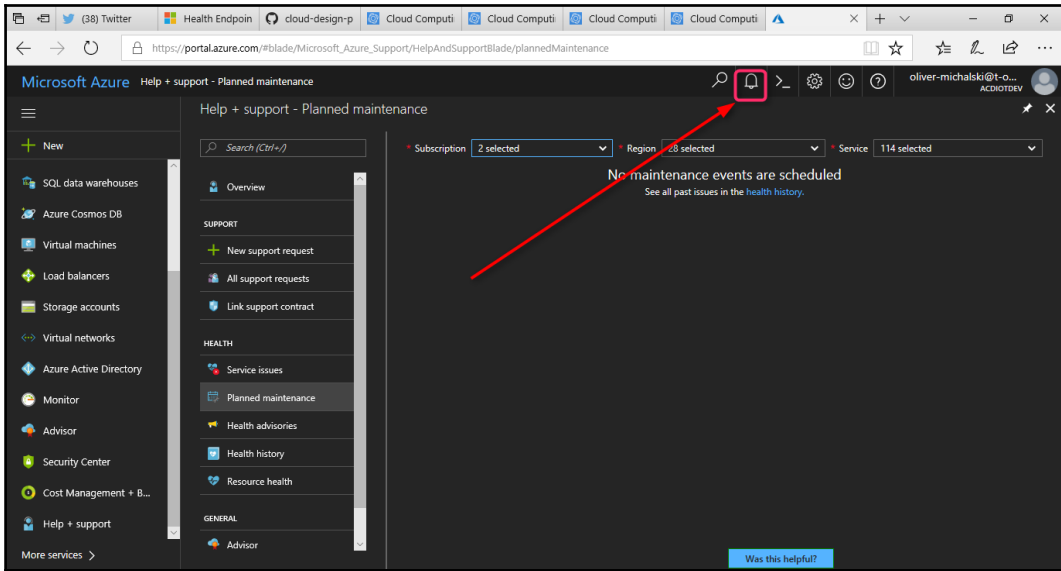
Region 1



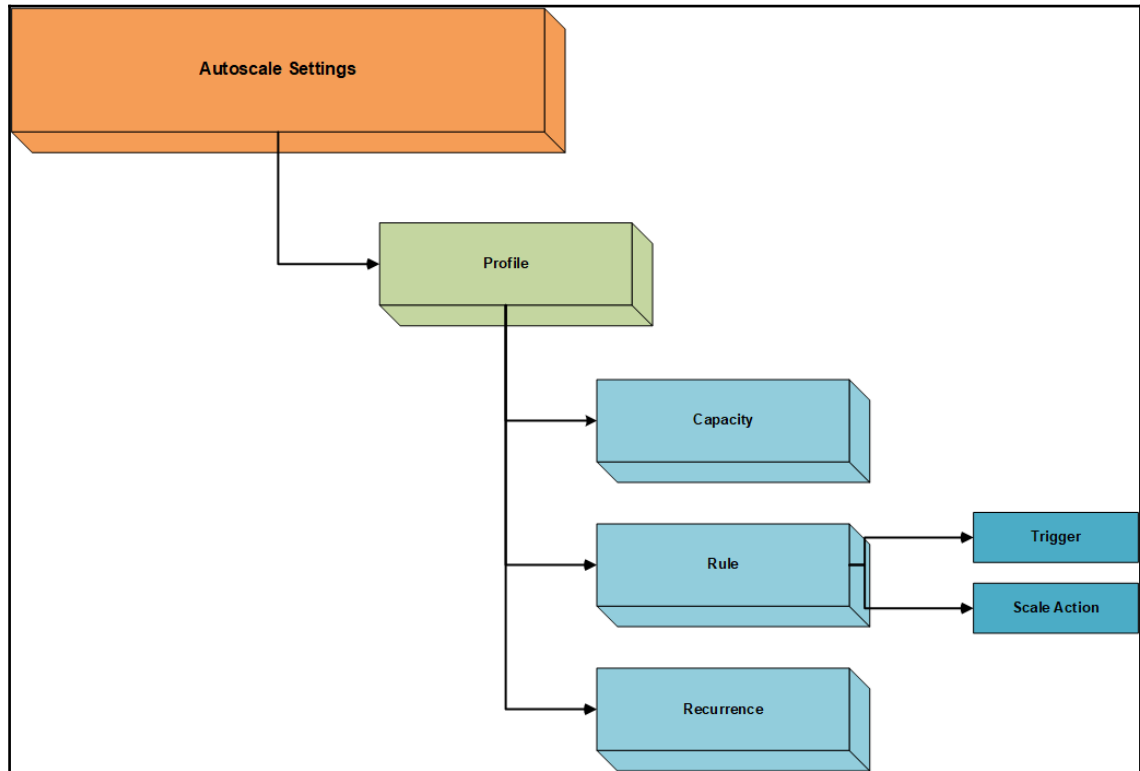
Chapter 05: Availability

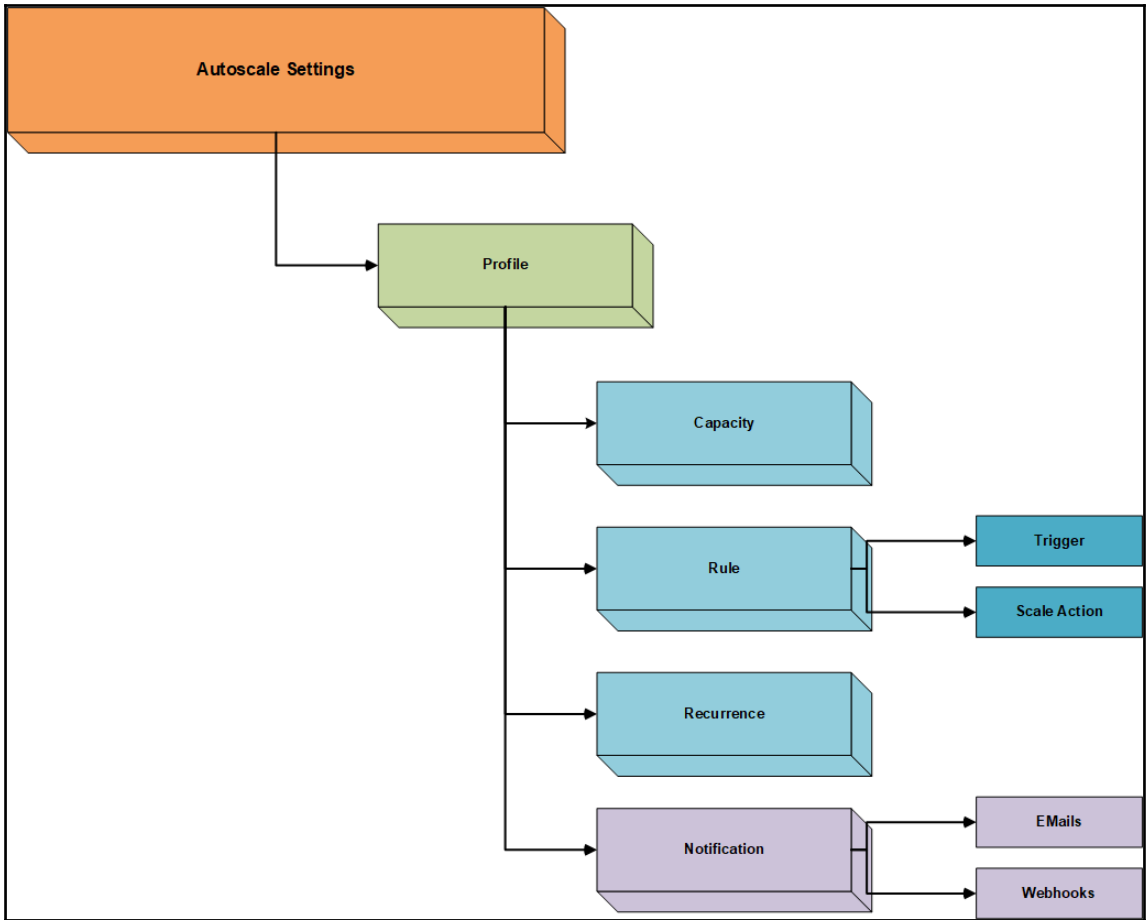




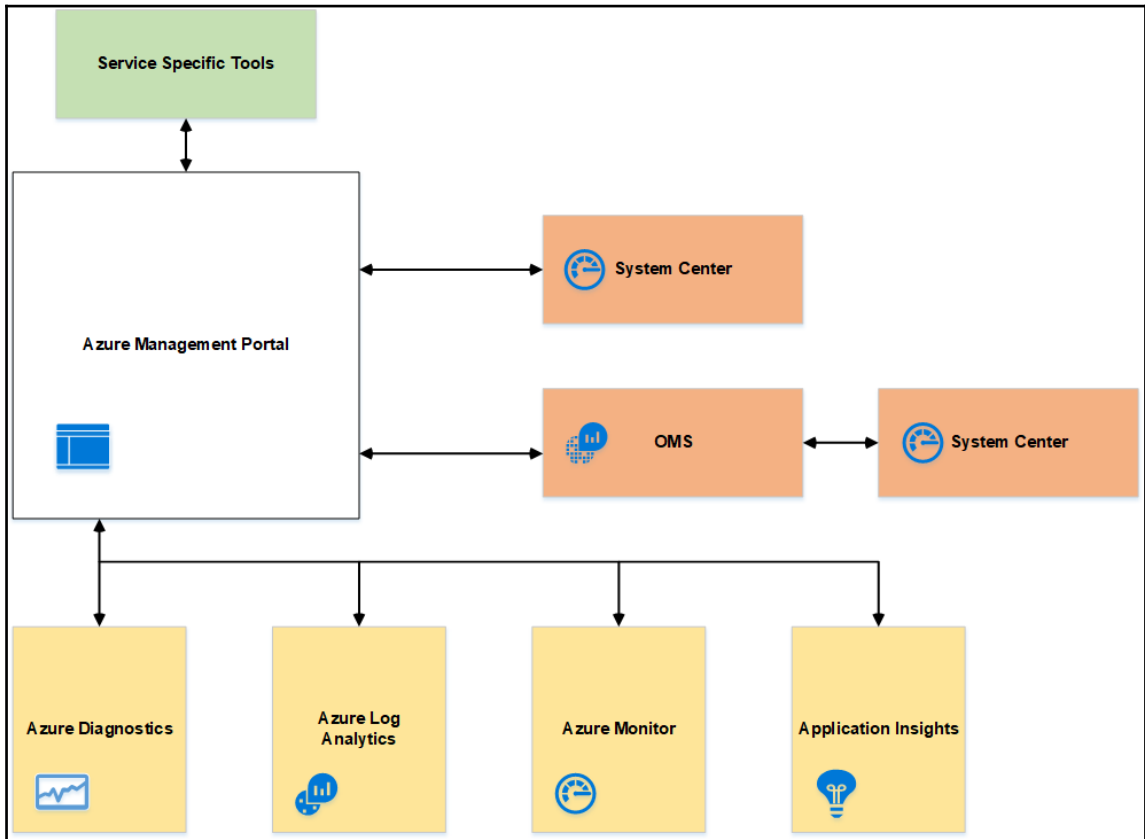


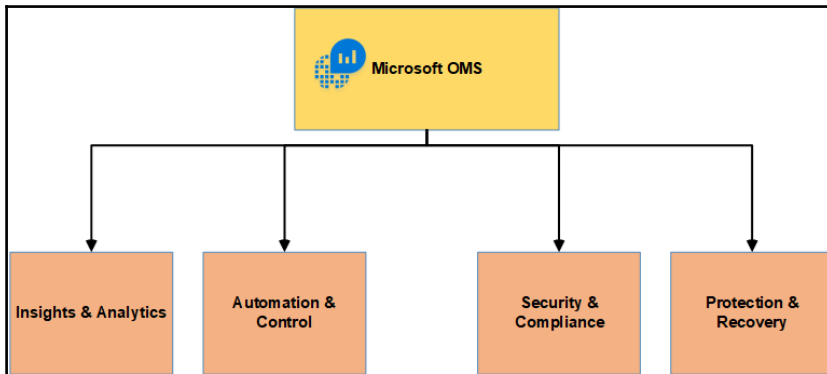
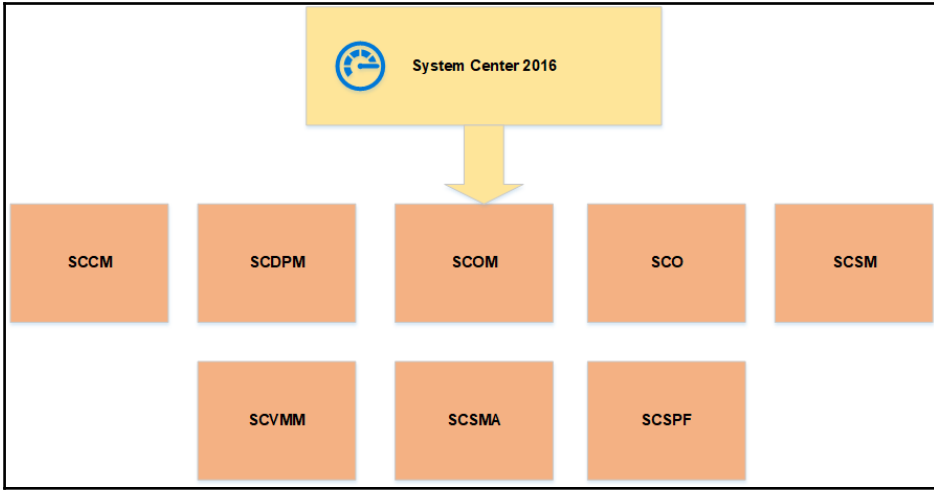
Chapter 06: Performance and Scalability

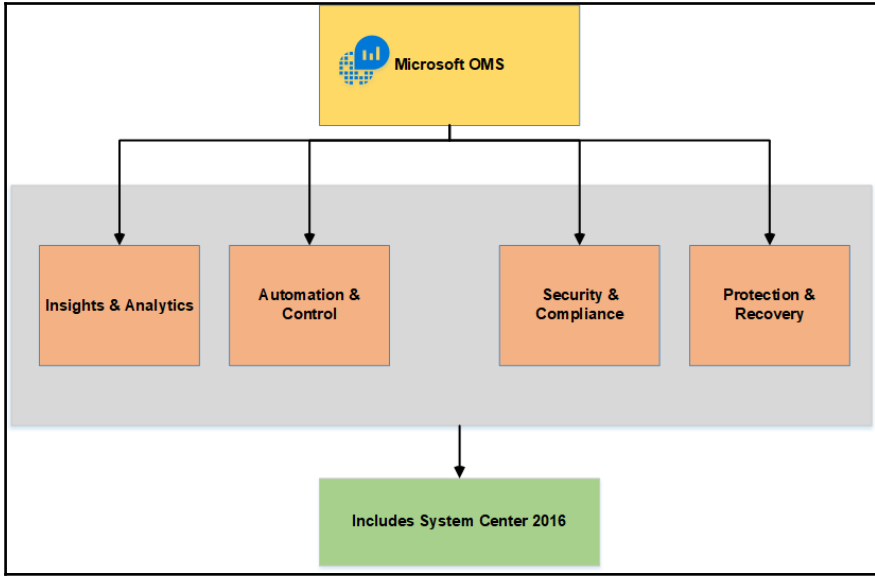


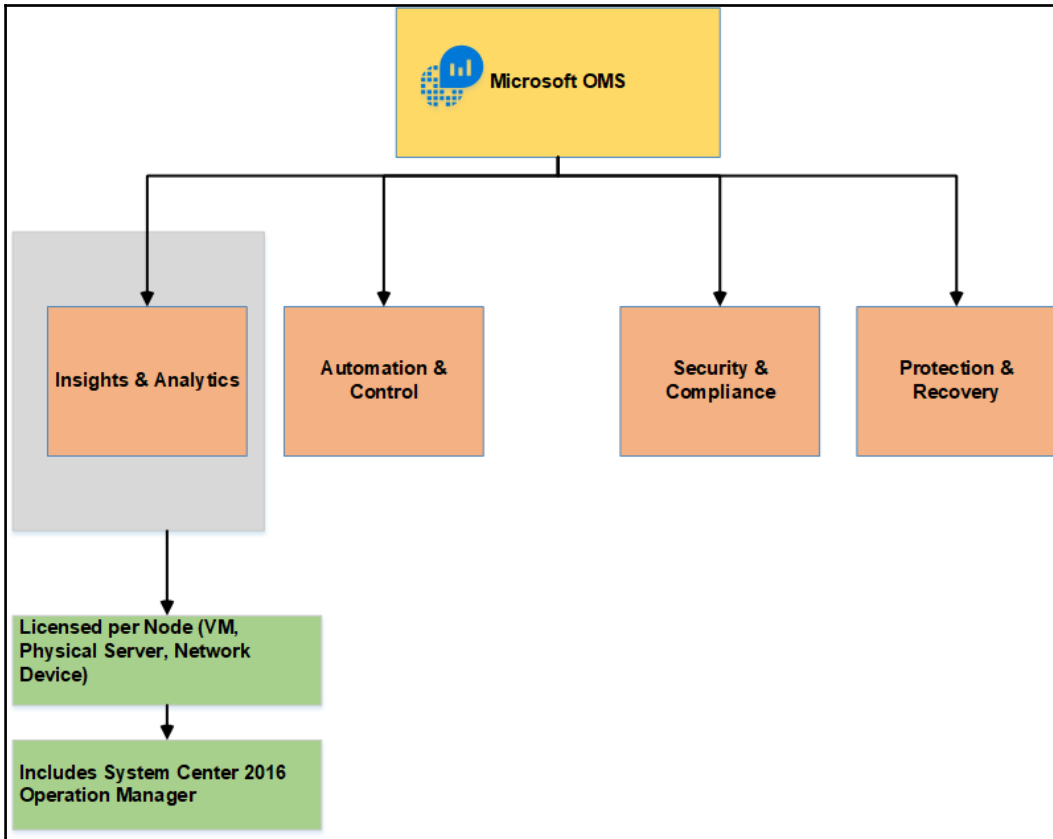


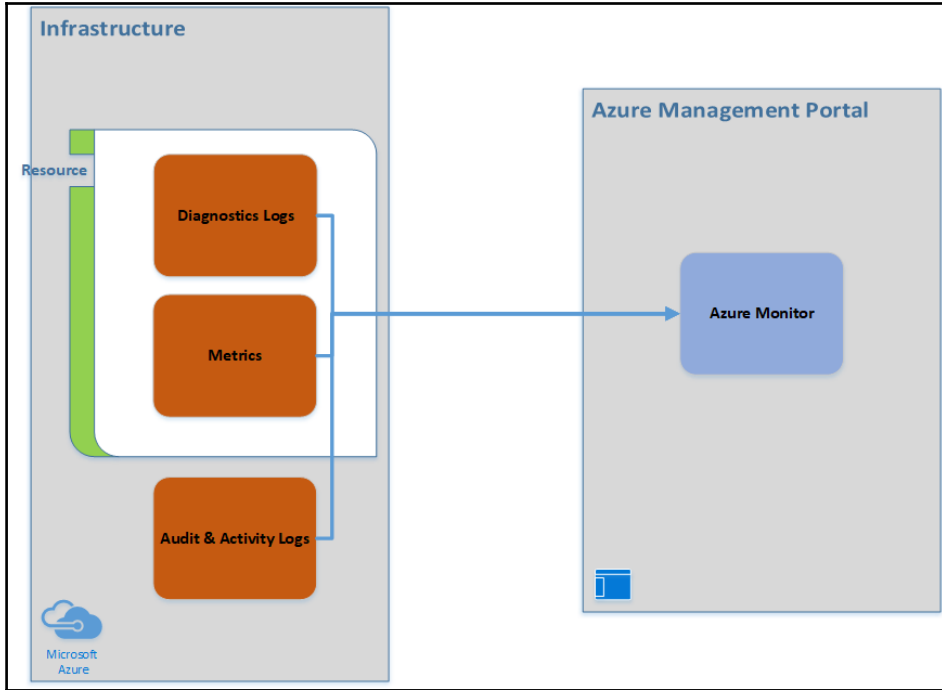
Chapter 07: Monitoring and Telemetry

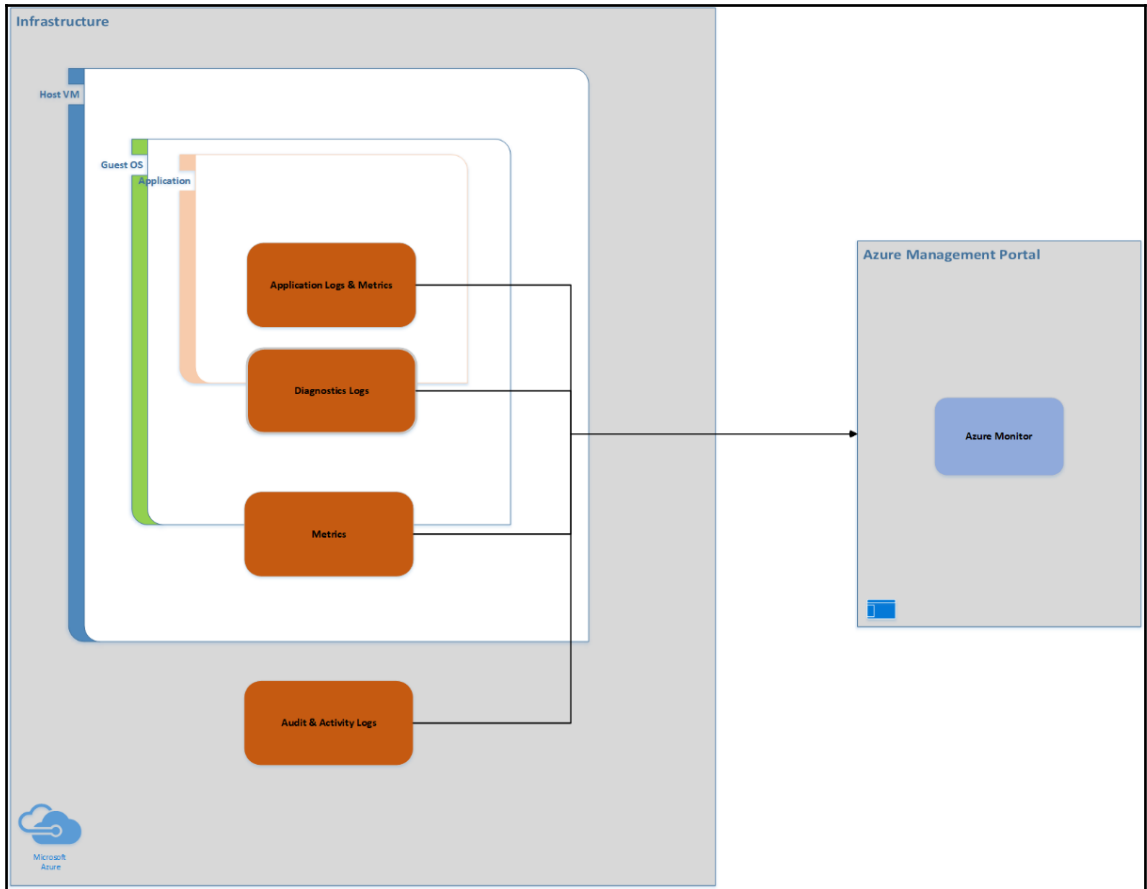


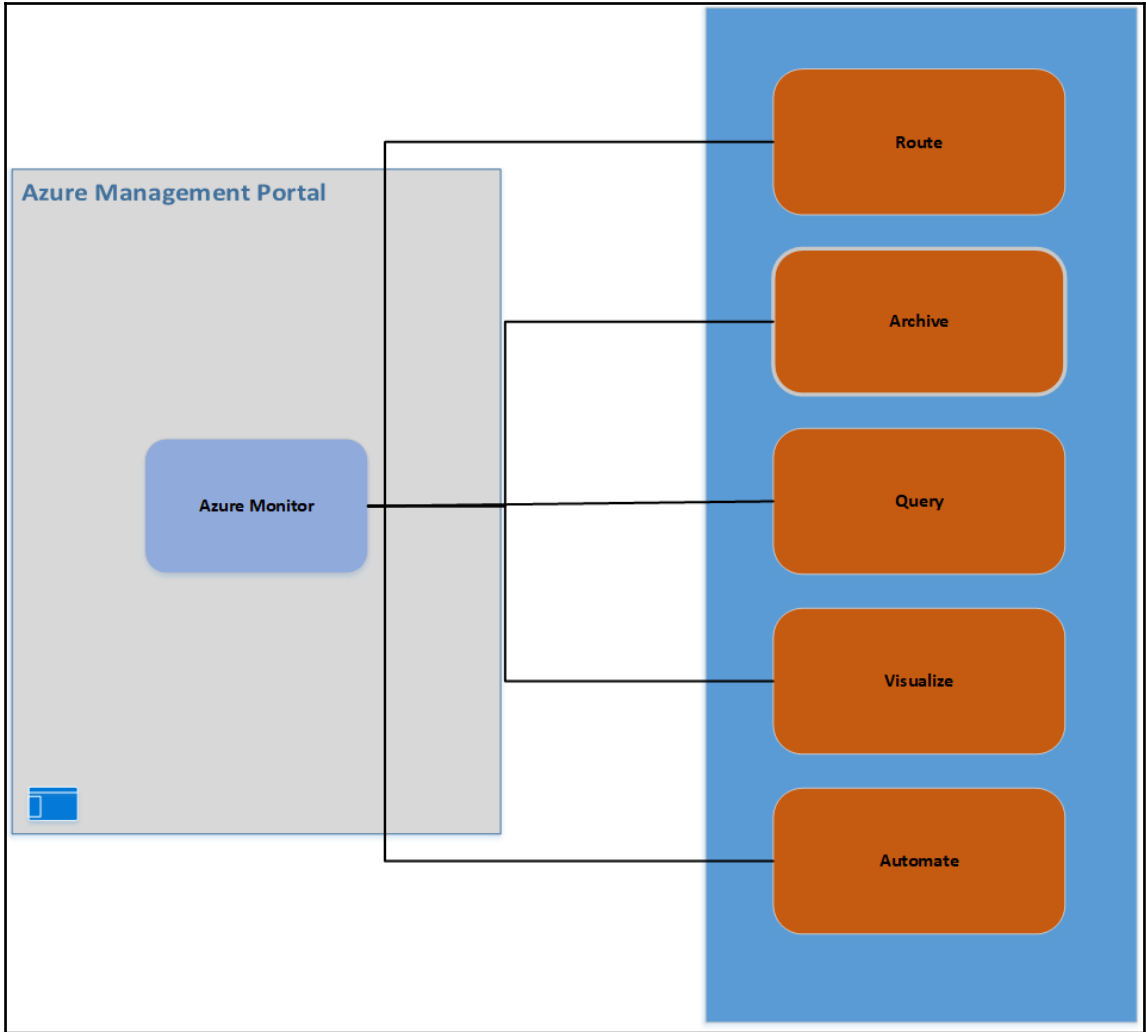


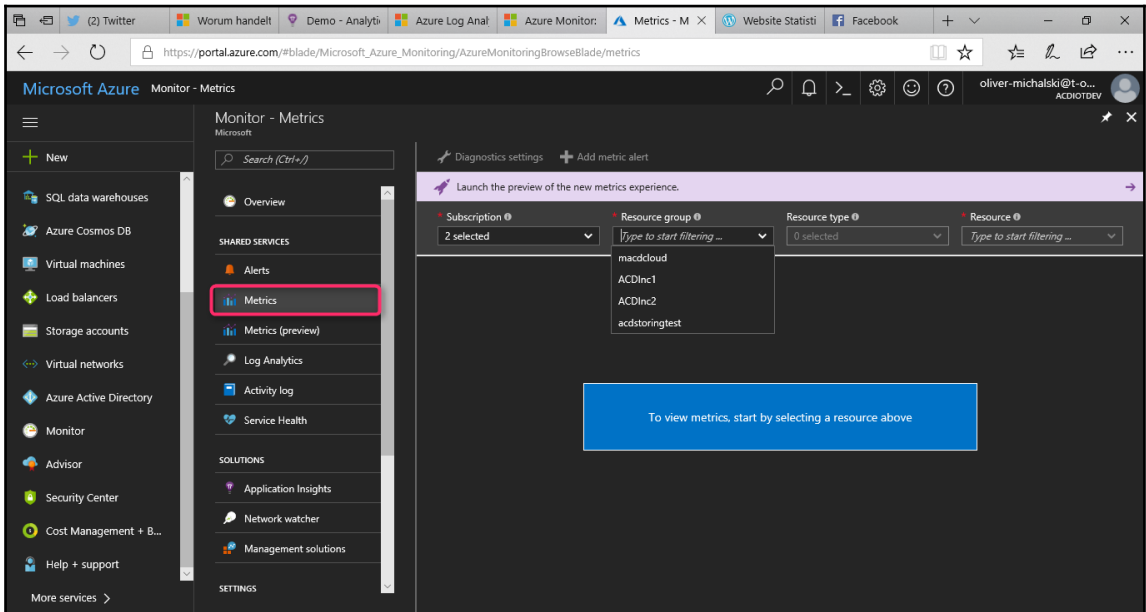
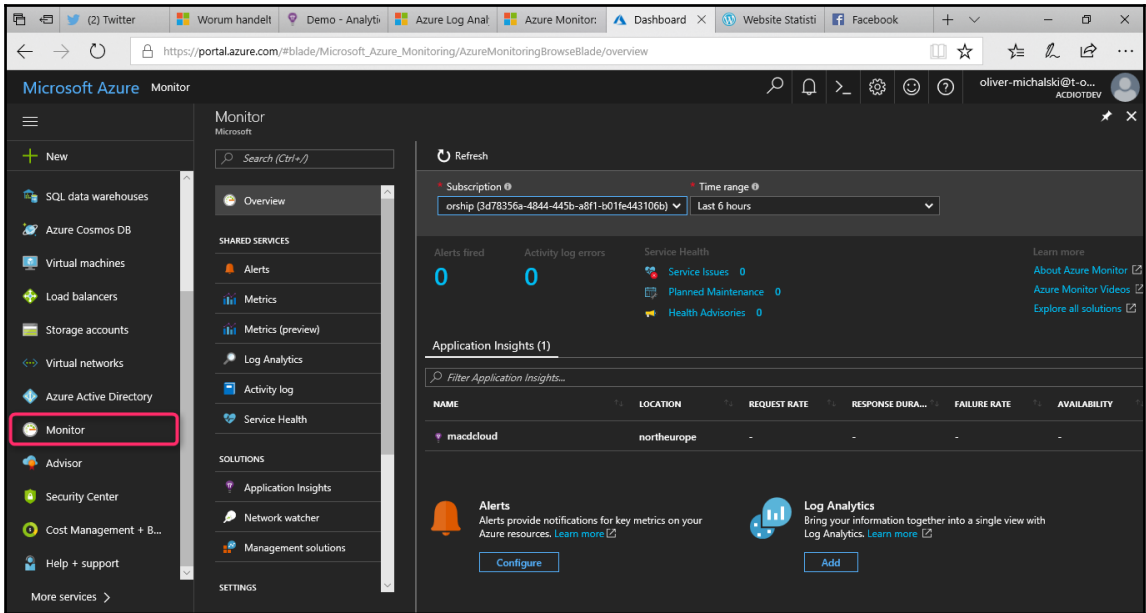


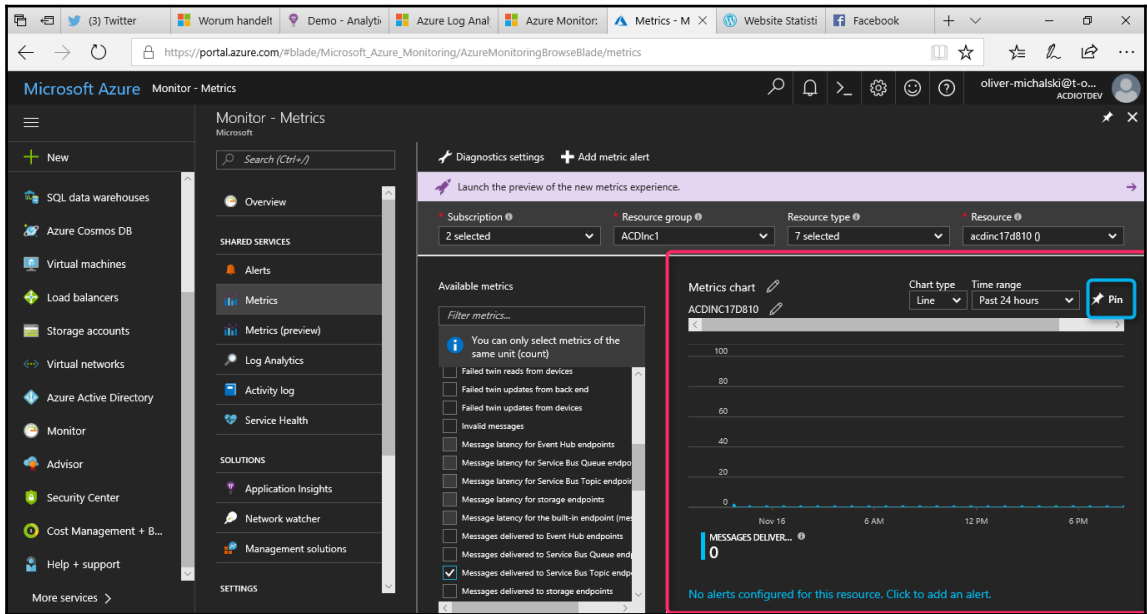
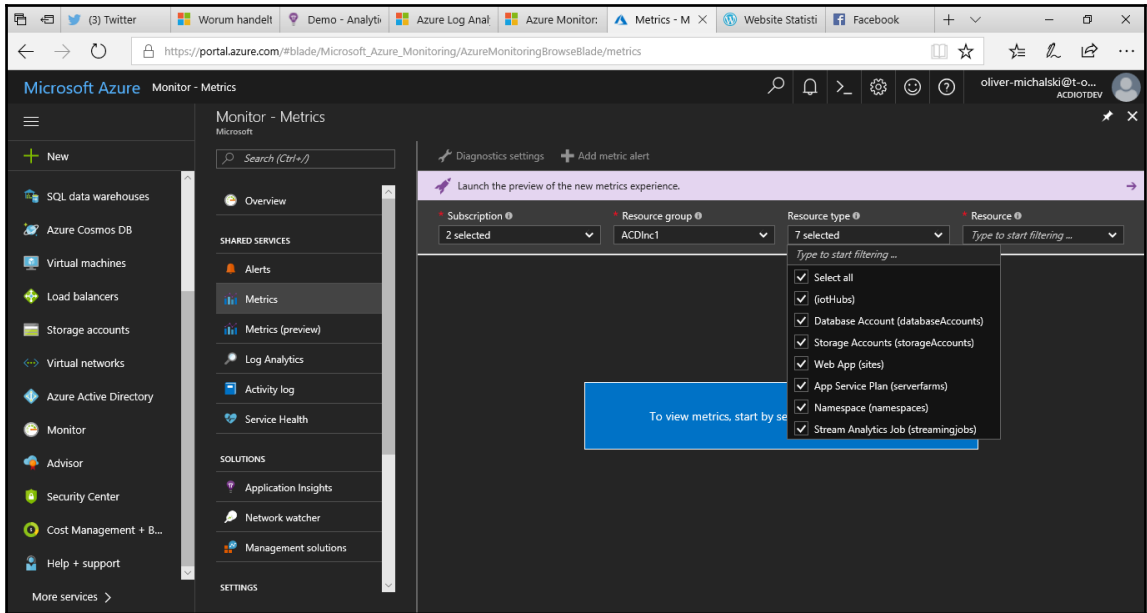


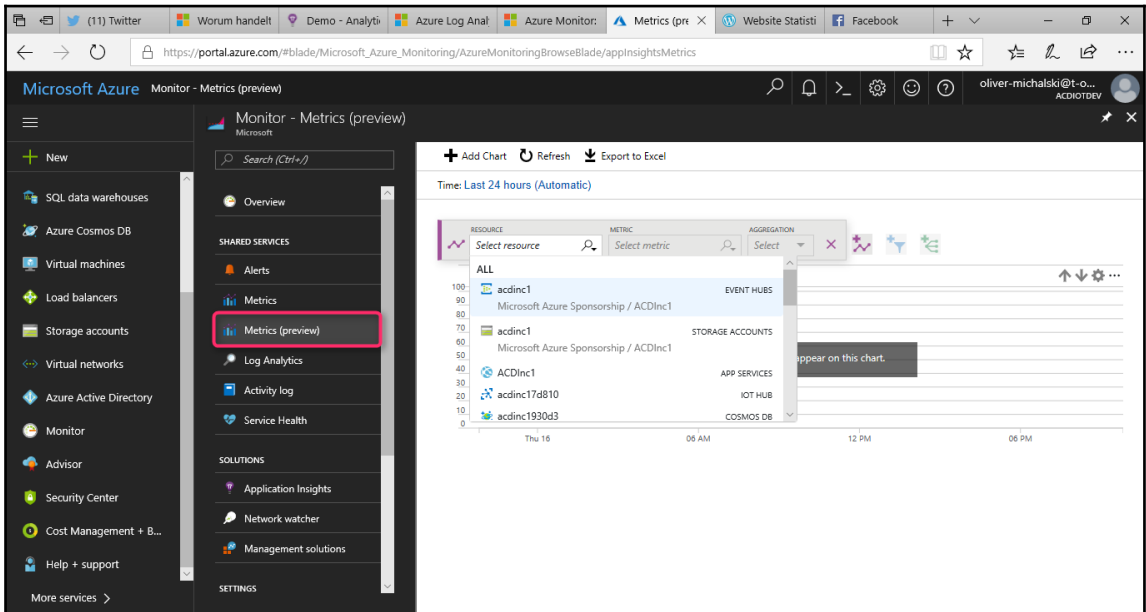
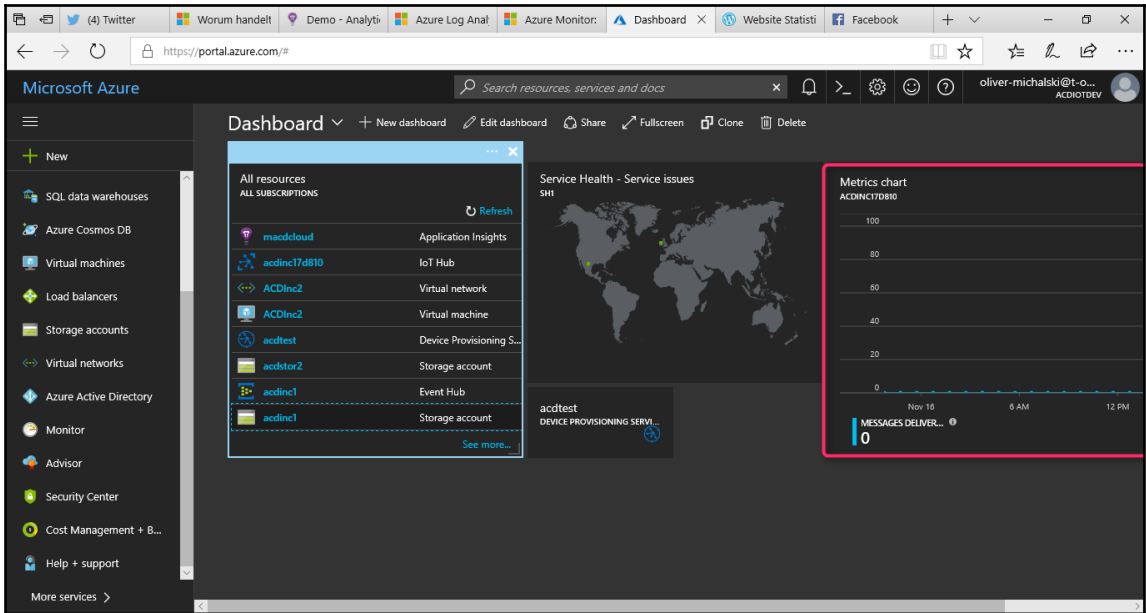


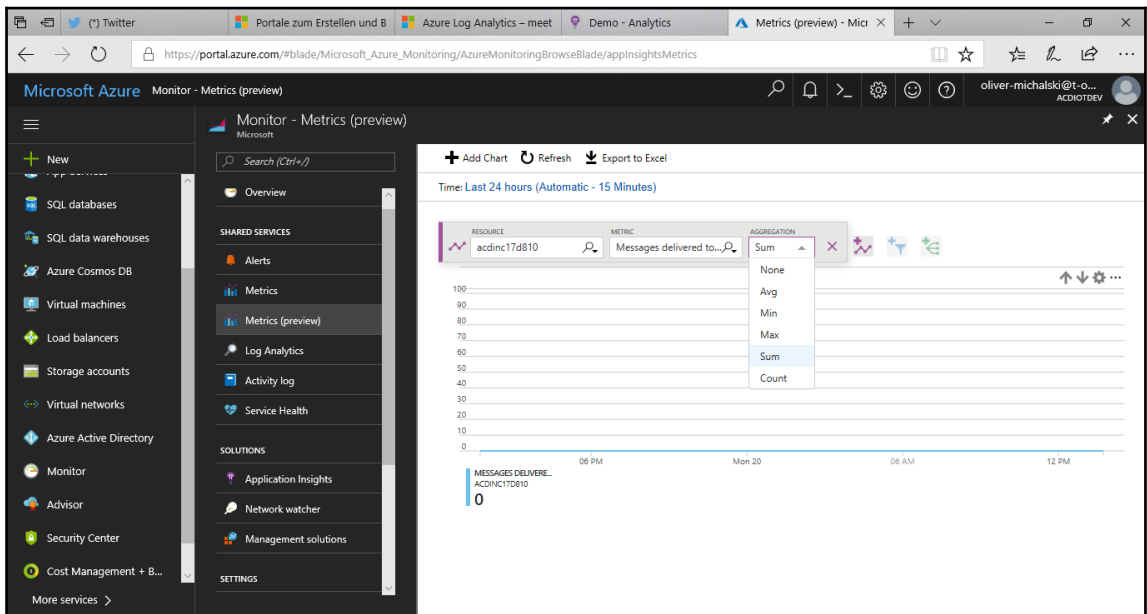
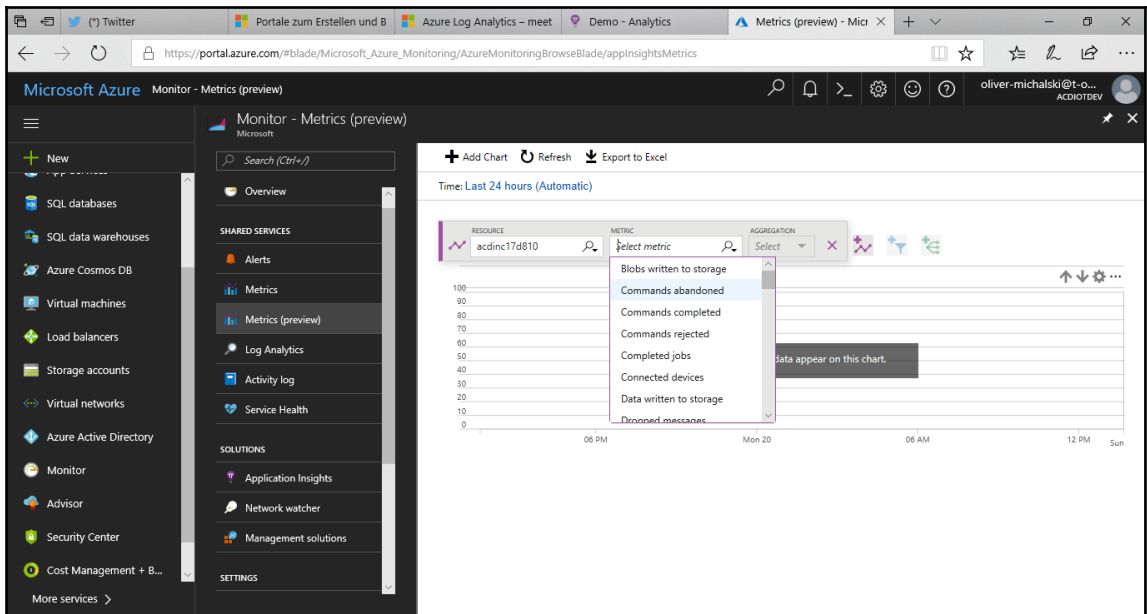


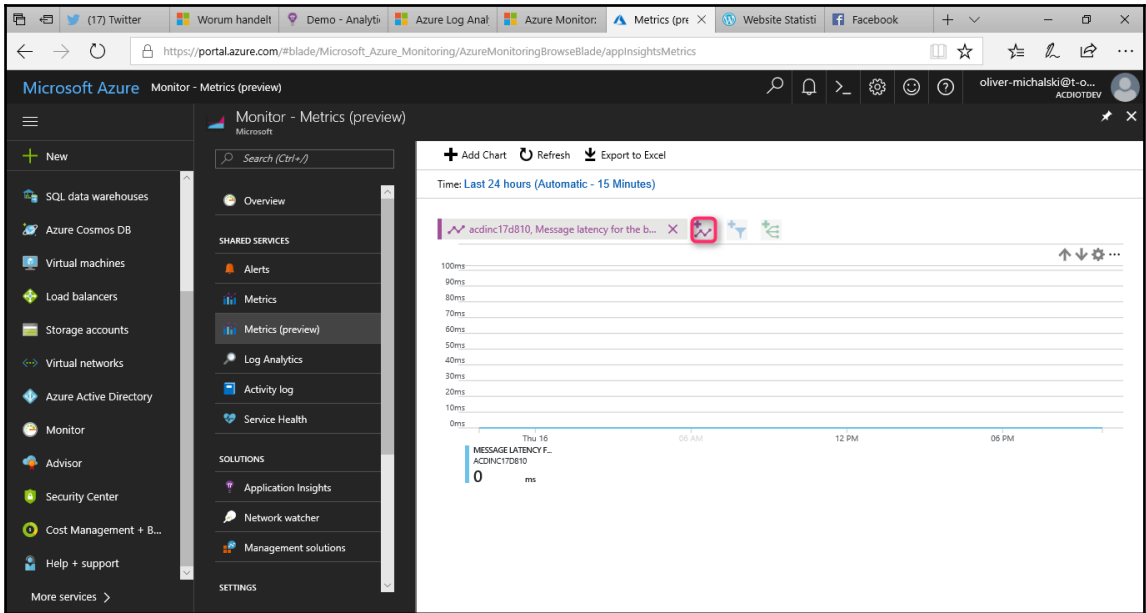












Microsoft Azure Monitor - Application Insights

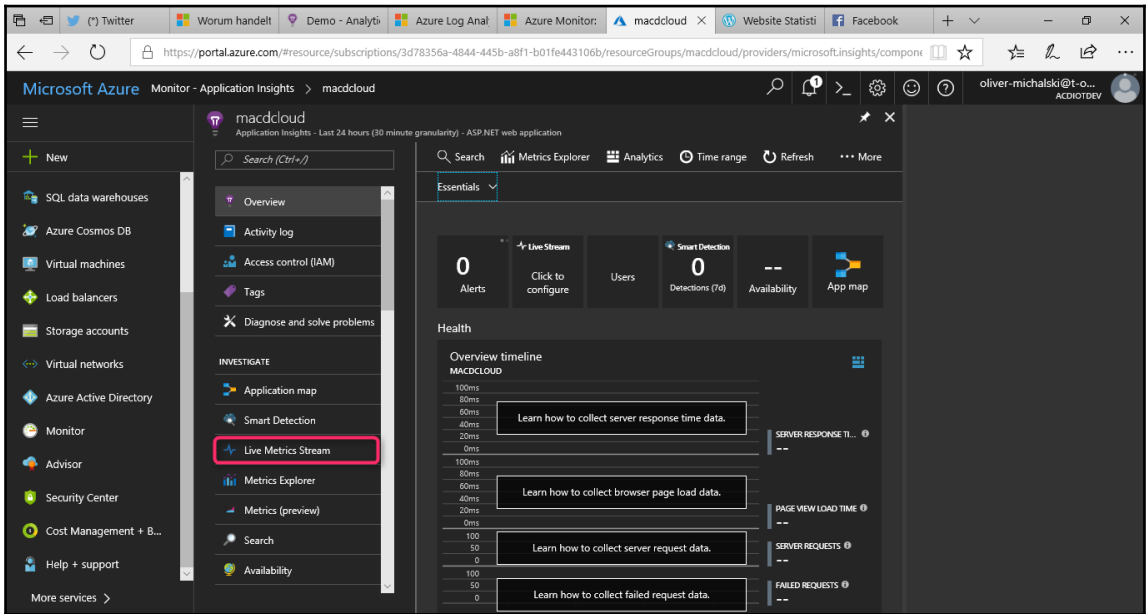
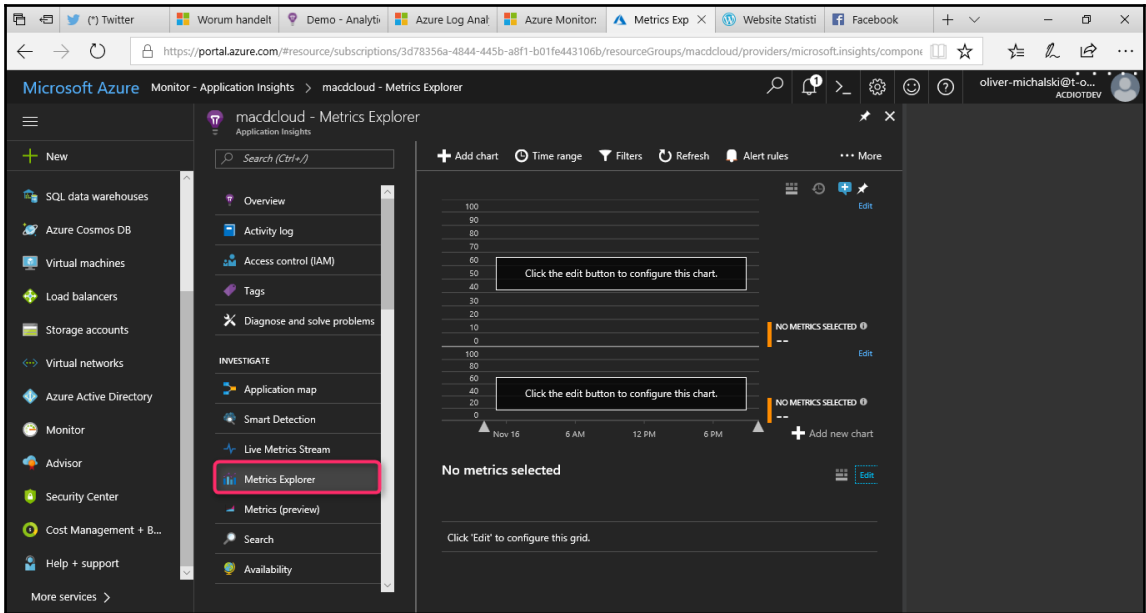
Subscriptions: All 2 selected - Don't see a subscription? Switch directories

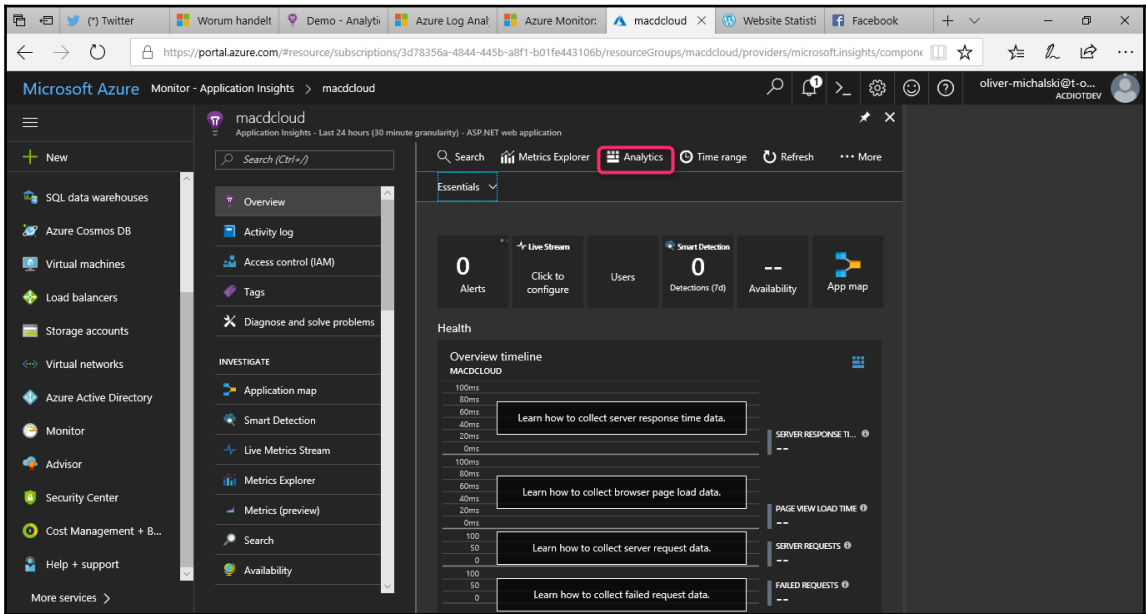
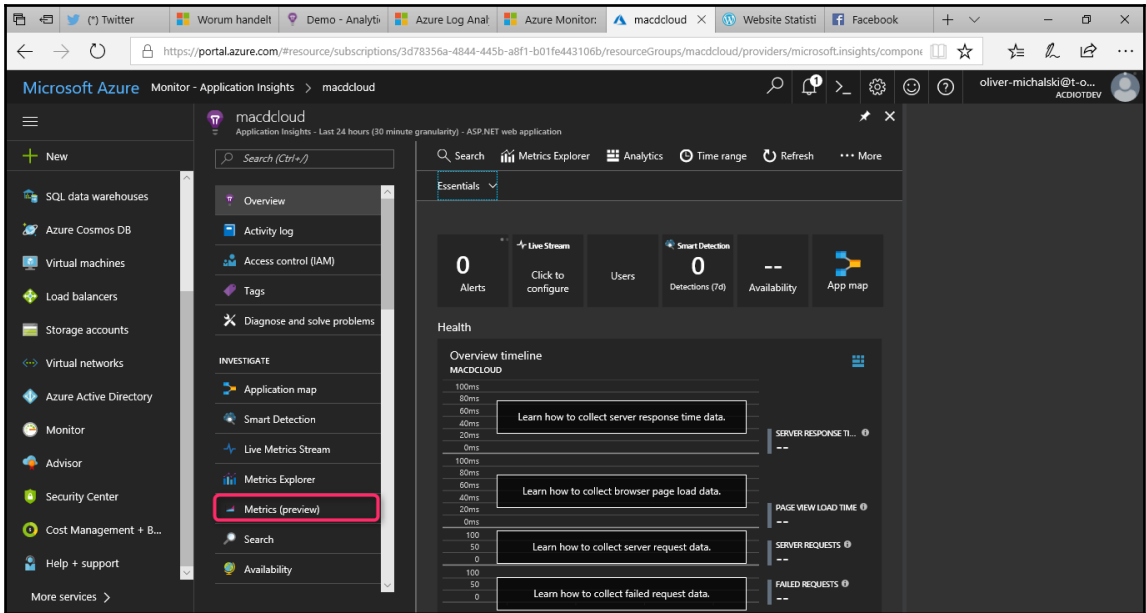
Filter by name... All subscriptions All resource groups All locations No grouping

NAME	RESOURCE GROUP	LOCATION	SUBSCRIPTION
macdcloud	macdcloud	North Europe	Microsoft Azure Sponsor...

This screenshot shows the 'Essentials' view in the Azure Monitor Application Insights interface for the 'macdcloud' application. The left sidebar contains a navigation menu with categories like 'New', 'INVESTIGATE', and 'More services'. The main content area displays several key metrics: Alerts (0), Users (Click to configure), Smart Detection (0 Detections (7d)), Availability (0), and App map. Below these metrics is a 'Health' section with an 'Overview timeline' showing server response time, browser page load data, server requests, and failed requests. Each metric has a corresponding 'Learn how to collect...' link.

This screenshot shows the 'Application map' view in the Azure Monitor Application Insights interface for the 'macdcloud' application. The left sidebar is similar to the previous view, but the 'Application map' option is highlighted with a red box. The main content area displays a dependency graph with nodes for 'Availability', 'Client: macdcloud', 'macdcloud', 'Azure storage', 'HTTP', and 'SQL'. Each node has a brief description of its role and the data it monitors. The graph shows dependencies between these components, with arrows indicating the flow of data and dependencies. A 'Warning thresholds' section at the top right indicates the current status of the application: green for <5% failure, yellow for >=5% failure, and red for >=20% failure.

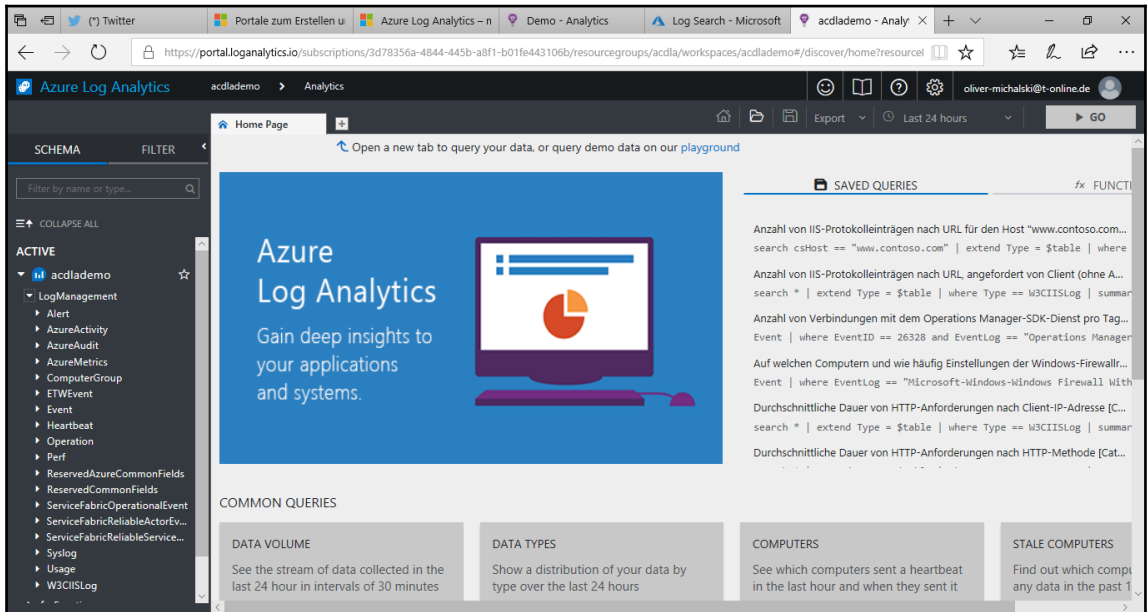
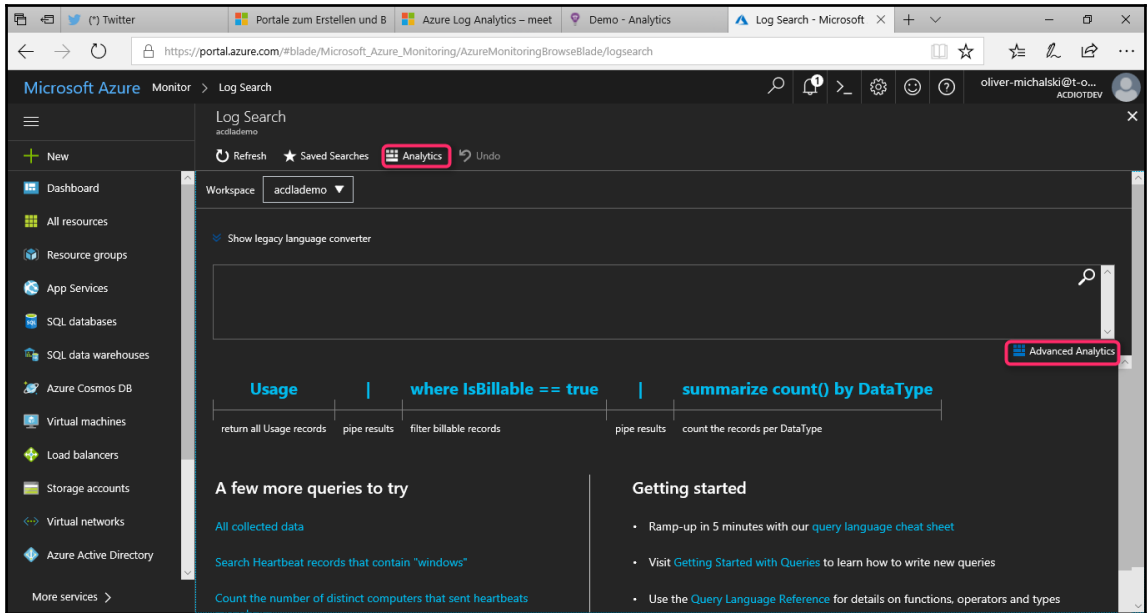




The screenshot shows the Application Insights Analytics portal. The main content area features a video player titled "Application Insights Analytics" with a play button and a progress bar. The video player shows a play button and a progress bar. Below the video player, there are "COMMON QUERIES" sections for "USERS", "PERFORMANCE", "ERRORS", and "USAGE". The left sidebar contains a "SCHEMA" and "FILTER" section, and an "ACTIVE" section listing various data sources like "traces", "customEvents", "pageViews", etc.

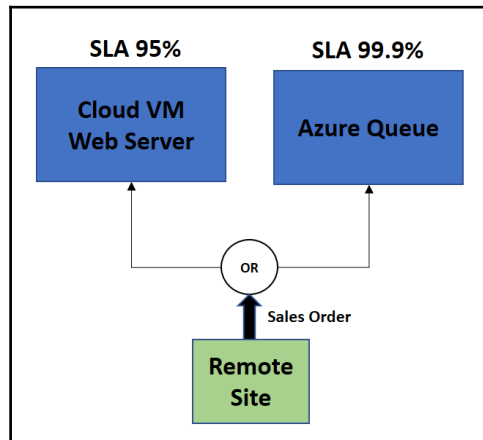
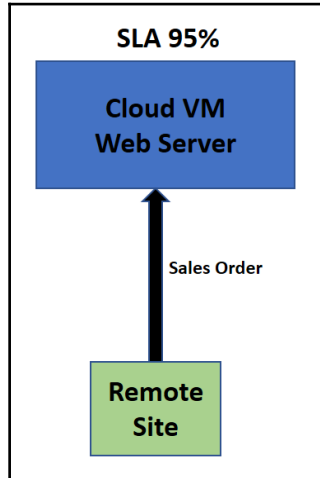
The screenshot shows the Microsoft Azure Monitor dashboard. The left navigation pane is open, and the "Log Analytics" service is highlighted with a red box. The main content area displays the "Monitor" overview for a specific subscription, showing "Alerts fired" (0), "Activity log errors" (0), and "Service Health" (0). Below this, there is a section for "Application Insights (1)" with a table listing the service name and location. The table has columns for NAME, LOCATION, REQUEST RATE, RESPONSE DURA..., FAILURE RATE, and AVAILABILITY. The row shows "macdcloud" in the "northeurope" location.

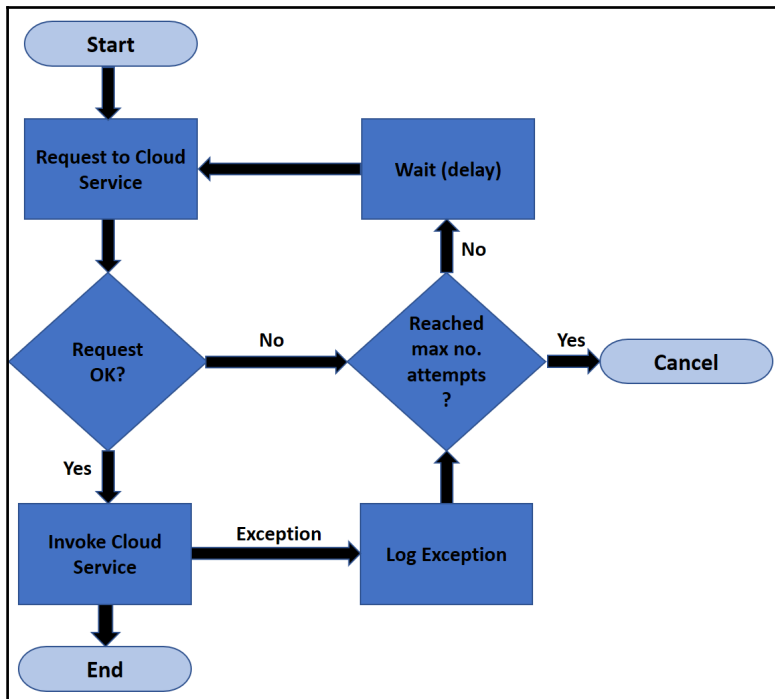
NAME	LOCATION	REQUEST RATE	RESPONSE DURA...	FAILURE RATE	AVAILABILITY
macdcloud	northeurope	-	-	-	-

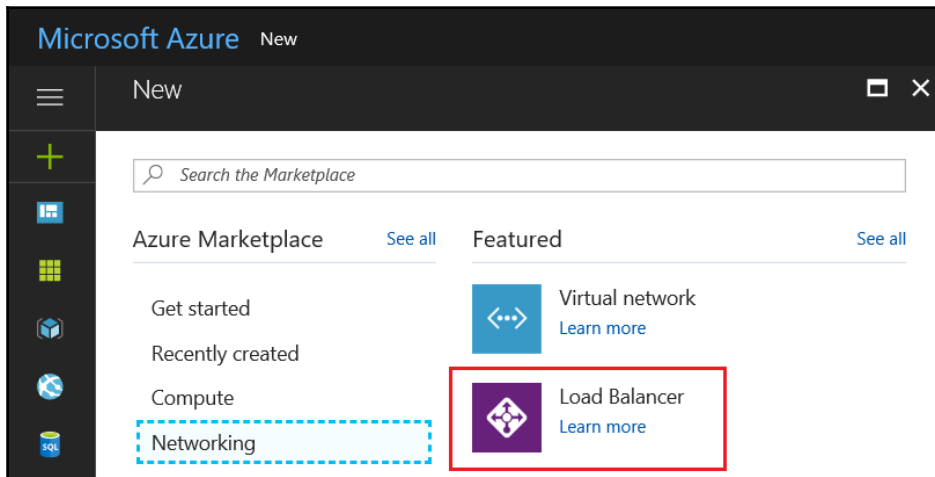
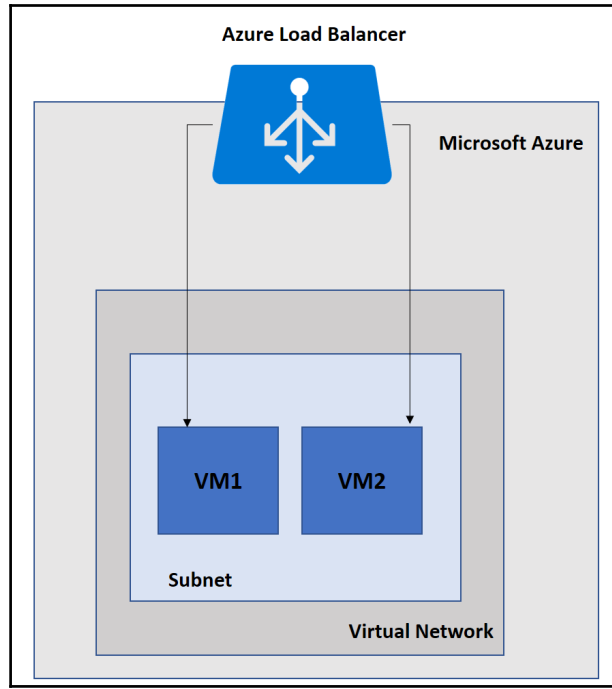


The screenshot displays the Azure Log Analytics portal interface. At the top, the browser address bar shows the URL <https://portal.loganalytics.io/demo#/discover/home>. The page header includes the Azure Log Analytics logo and navigation options like 'Home Page' and 'Open a new tab to start writing queries'. On the left, a 'SCHEMA' sidebar lists various data fields under the 'ACTIVE' section, including 'Demo', 'ADAssessment', and 'ADAssessmentRecommendation'. The main content area features a large blue banner with the text 'Azure Log Analytics Gain deep insights to your applications and systems.' and an illustration of a computer monitor displaying a pie chart. Below the banner, a 'COMMON QUERIES' section offers four query suggestions: 'DATA VOLUME' (See the stream of data collected in the last 24 hour in intervals of 30 minutes), 'DATA TYPES' (Show a distribution of your data by type over the last 24 hours), 'COMPUTERS' (See which computers sent a heartbeat in the last hour and when they sent it), and 'STALE COMPUTERS' (Find out which computers sent any data in the past 1 hour). A 'SAVED QUERIES' section on the right indicates that the workspace has no saved queries.

Chapter 08: Resiliency







Create load balancer ✕

*** Name**
PacktLoadBalancer ✓

*** Type** ⓘ
 Internal Public

*** Public IP address**
(new) LBPublicIP >

Add a public IPv6 address ⓘ

*** Subscription**
Microsoft Partner Network ▾

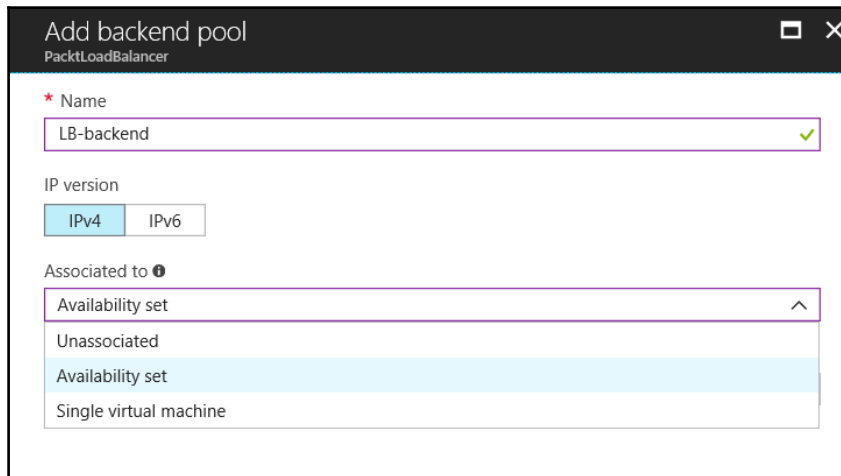
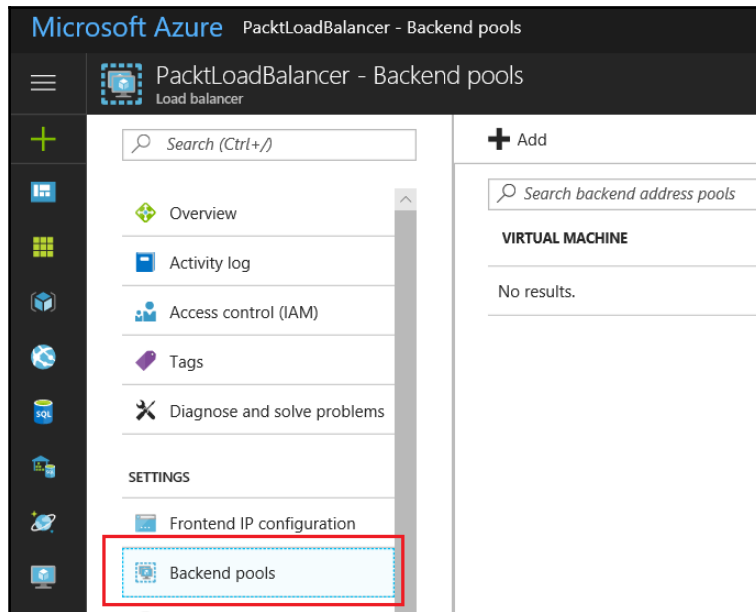
*** Resource group**
 Create new Use existing

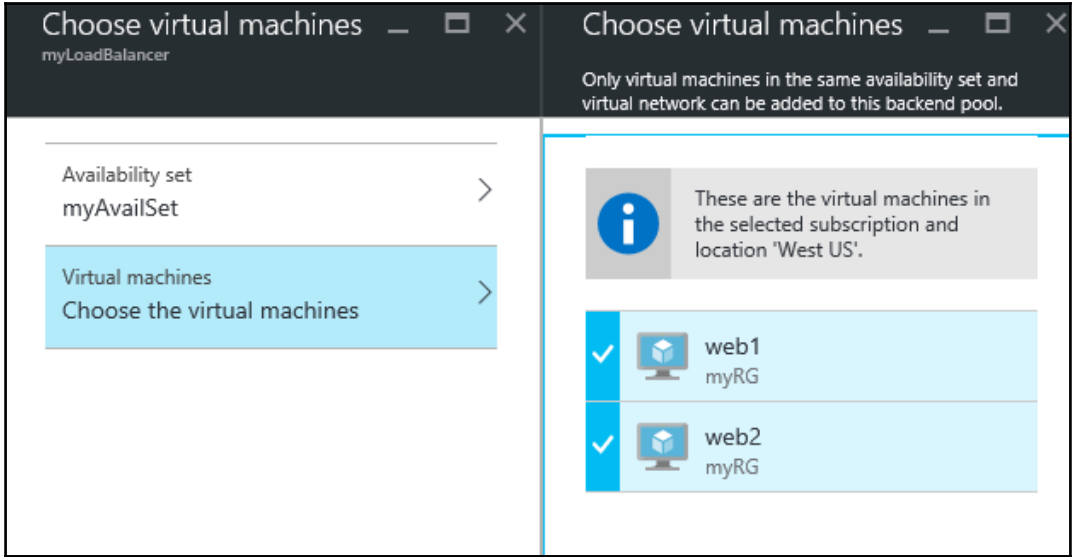
MyRG ▾

*** Location**
West Europe ▾

Pin to dashboard

[Create](#) [Automation options](#)





Add health probe ✕
PacktLoadBalancer

* Name
 ✓

IP version
IPv4

Protocol
 HTTP TCP

* Port

* Path ⓘ
 ✓

* Interval ⓘ
 seconds

* Unhealthy threshold ⓘ
 consecutive failures

✔✔✔ PacktLoadBalancer - Load balancing rules
✔✔✔ Load balancer

🔍 Search (Ctrl+/)

- 📌 Overview
- 📅 Activity log
- 👤 Access control (IAM)
- 🏷️ Tags
- 🔧 Diagnose and solve problems

SETTINGS

- 📄 Frontend IP configuration
- 🏗️ Backend pools
- 📍 Health probes
- ✔✔✔ Load balancing rules

+ Add

🔍 Search load balancing rules

NAME

No results.

Add load balancing rule — □ ×
myLoadBalancer

* Name
HTTP ✓

Protocol
 TCP UDP

* Port
80

* Backend port ⓘ
80

Backend pool ⓘ
LB-backend (2 virtual machines) ▼

Probe ⓘ
HealthProbe (HTTP:80/HealthProbe.aspx) ▼

Session persistence ⓘ
None ▼

Idle timeout (minutes) ⓘ
 4

Floating IP (direct server return) ⓘ
 Disabled Enabled

Add inbound NAT rule
PacktLoadBalancer

* Name
inboundNATRuleVM1 ✓

Frontend IP address ⓘ
LoadBalancerFrontEnd (104.40.230.191) ▾

IP Version ⓘ
IPv4

Service
Custom ▾

Protocol
 TCP UDP

* Port
3341 ✓

Associated to ⓘ
Availability set ▾

Availability set ⓘ
None ▾

Port mapping ⓘ
 Default Custom

Floating IP (direct server return) ⓘ
 Disabled Enabled

OK

Create storage account ✕

The cost of your storage account depends on the usage and the options you choose below.
[Learn more](#)

*** Name** ⓘ

mypacktstorageaccount ✓
.core.windows.net

Deployment model ⓘ

Resource manager Classic

Account kind ⓘ

Storage (general purpose v1) ▾

Performance ⓘ

Standard Premium

Replication ⓘ

- Read-access geo-redundant storage (RA-... ^
- Locally-redundant storage (LRS)
- Zone-redundant storage (ZRS)
- Geo-redundant storage (GRS)
- Read-access geo-redundant storage (RA-GRS)
- Microsoft Partner Network ▾

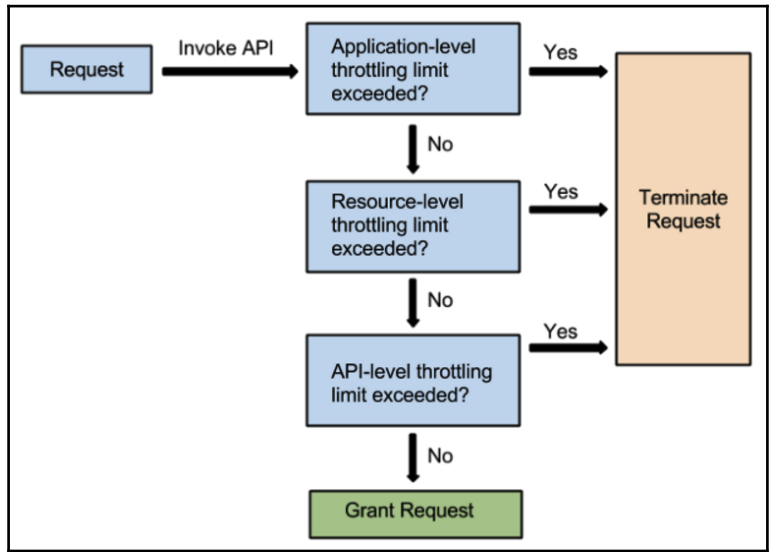
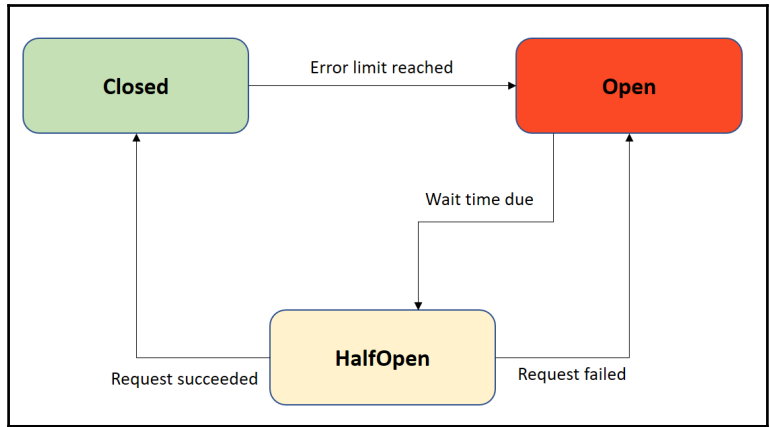
*** Resource group**

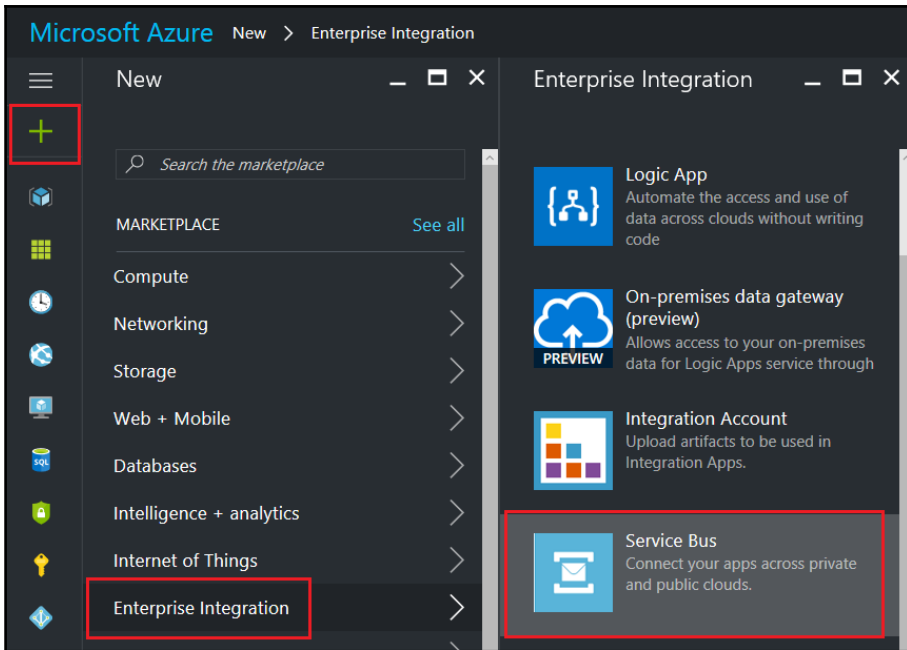
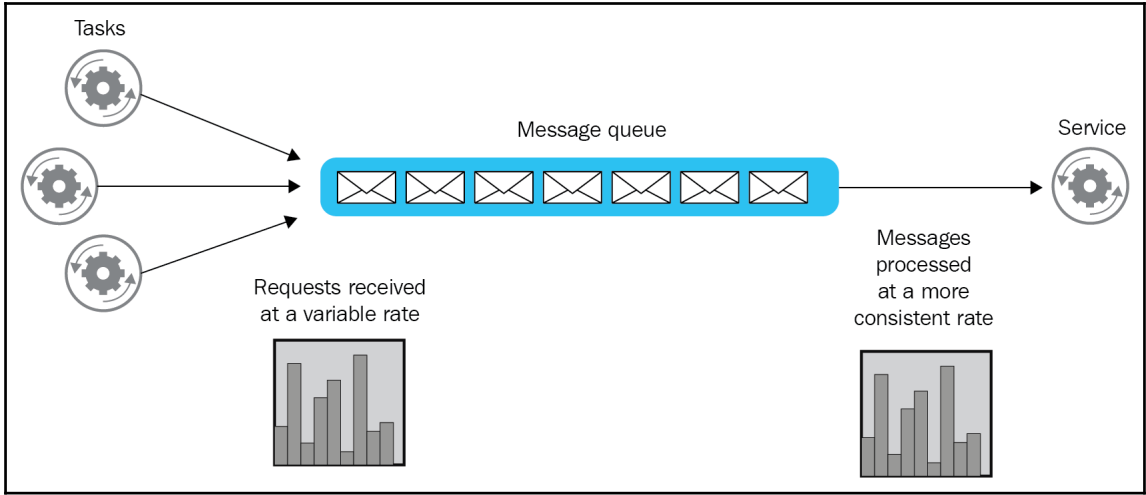
Create new Use existing

MvRG ✓

Pin to dashboard

Create Automation options





Create namespace
Service Bus - PREVIEW

* Name
NAVSBQueue-ns ✓
.servicebus.windows.net

* Pricing tier
Standard >

* Subscription
Microsoft Partner Network ▾

* Resource group ⓘ
 Create new Use existing
Default-Networking ▾

* Location
West Europe ▾

Pin to dashboard

Create [Automation options](#)

NAVSBQueue-ns - Queues Queue
Service Bus - PREVIEW

+ Queue

Search (Ctrl+/)

- Properties
- Locks
- Automation script

ENTITIES

- Queues**
- Topics

Search to filter items...

NAME

no queues yet.

Create queue
NAVSQueue-ns - PREVIEW

* Name
NAVSQueue

Max size
1 GB

Message time to live (default)
14 days

Lock duration
30 seconds

Move expired messages to the dead-letter subqueue
 Enable duplicate detection
 Enable sessions

Create

navsqueue
Service Bus - PREVIEW

Delete

Search (Ctrl+/)

Overview

Diagnose and solve problems

SETTINGS

- Shared access policies
- Properties
- Locks
- Automation script

SUPPORT + TROUBLESHOOTING

- New support request

Essentials

Namespace
NAVSQueue-ns

Queue URL
<https://NAVSQueue-ns.servicebus.windo...>

ACTIVE MESSAGE COUNT 0 MESSAGES	MAX SIZE 16 GB
SCHEDULED MESSAGE COUNT 0 MESSAGES	CURRENT 0.0 KB

DEAD-LETTER MESSAGE COUNT
0 MESSAGES

TRANSFER MESSAGE COUNT
0 MESSAGES

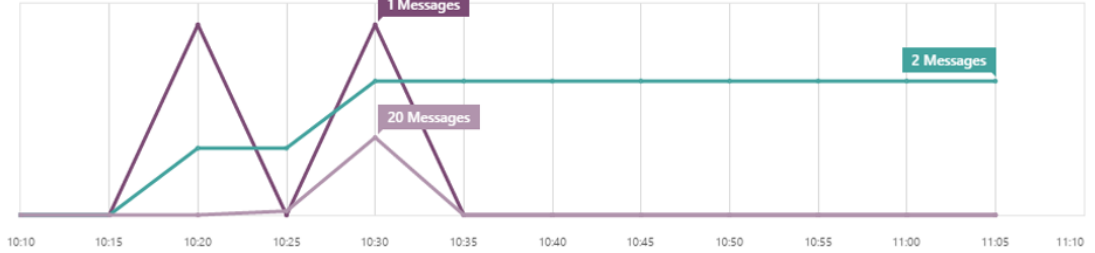
TRANSFER DEAD-LETTER MESSAGE COUNT
0 MESSAGES

100% FREE SPACE

navsbqueue

DASHBOARD CONFIGURE

INCOMING MESSAGES INTERNAL SERVER ERRORS LENGTH SERVER BUSY ERRORS 6 MORE RELATIVE 1 HOUR



usage overview

NAVSBQUEUE AVAILABLE



quick glance

- View Connection String
- Download the sample solution for a queue

STATUS

Active

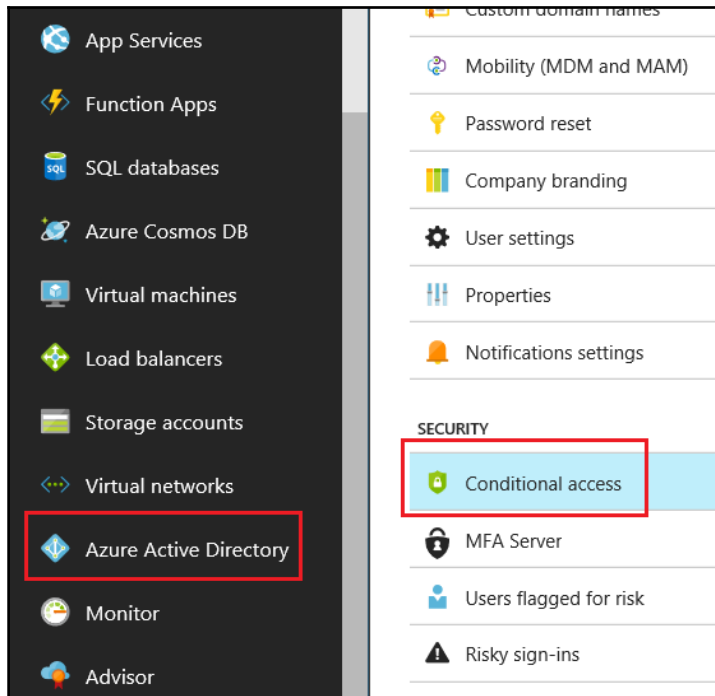
QUEUE URL

<https://navsbqueue->

Chapter 09: Identity and Security

The screenshot shows the Azure portal interface for managing users. The left-hand navigation pane has 'Azure Active Directory' selected. The main content area is titled 'Users and groups - All users'. At the top right of this area, the 'Multi-Factor Authentication' button is highlighted with a red box. Below this, there are search and filter options, and a table of users. The table has columns for NAME, USER NAME, and USER TYPE. Four users are listed, each with a colored profile picture and an email address ending in '@eidsrlborgomanero.onmicrosoft.com' and the role 'Member'.

The screenshot shows the 'multi-factor authentication users' settings page. The page title is 'multi-factor authentication users' with a breadcrumb 'users service settings'. A note states: 'Note: only users licensed to use Microsoft Online Services are eligible for Multi-Factor Authentication. Learn more about how to license other users. Before you begin, take a look at the multi-factor auth deployment guide.' Below the note, there are filters for 'View: Sign-in allowed users' and 'Multi-Factor Auth status: Any', along with a 'bulk update' button. A table lists users with columns for 'DISPLAY NAME', 'USER NAME', and 'MULTI-FACTOR AUTH STATUS'. The user 'Stefano Demiliani' is selected with a checkmark, and his status is 'Disabled'. To the right of the table, there is a card for 'Stefano Demiliani' with an 'Enable' button highlighted by a red box. Below the card, there is a 'Manage user settings' link.



New
PREVIEW
Info

Name
Access from non-corp network policy

Assignments

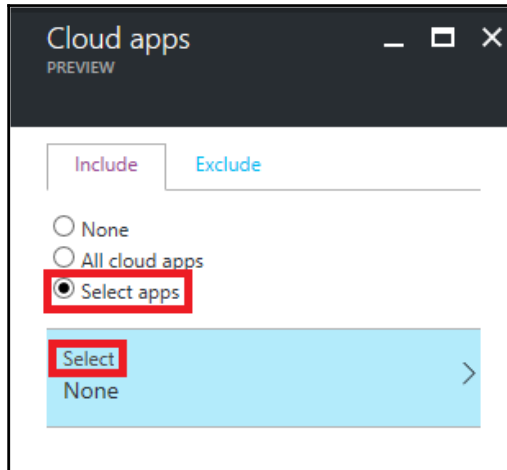
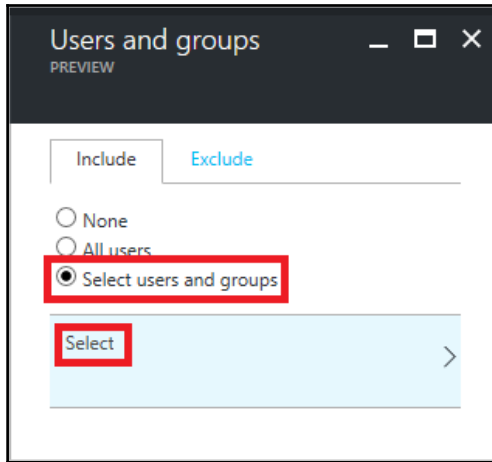
- Users and groups
0 users and groups selected
- Cloud apps
0 cloud apps selected
- Conditions
0 conditions selected

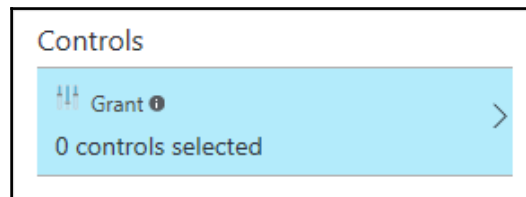
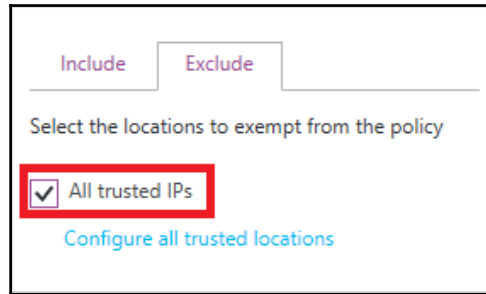
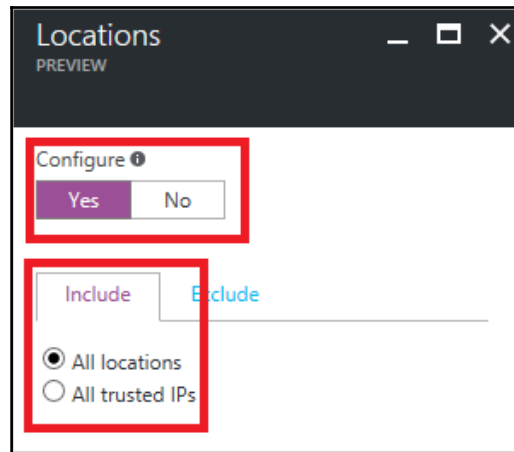
Controls

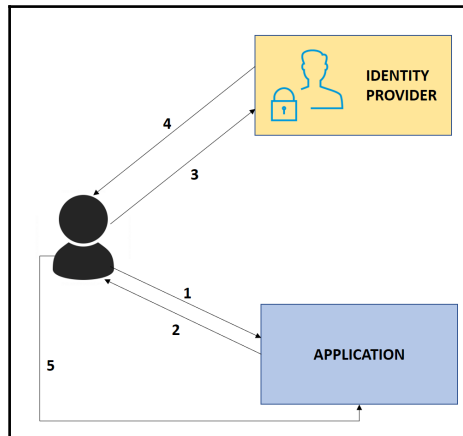
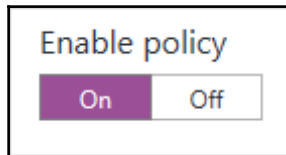
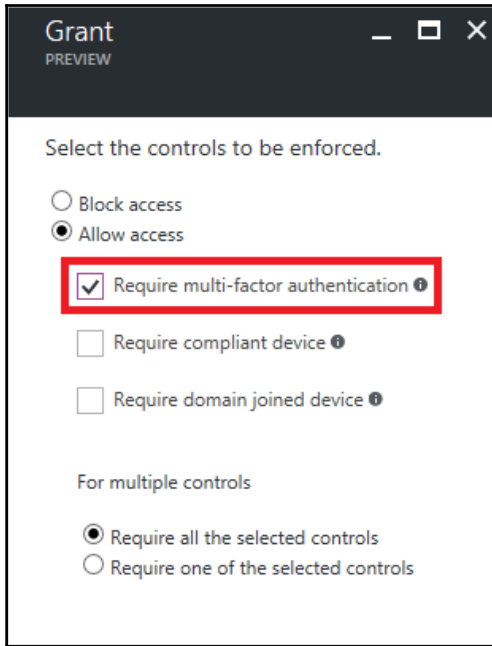
- Grant
0 controls selected

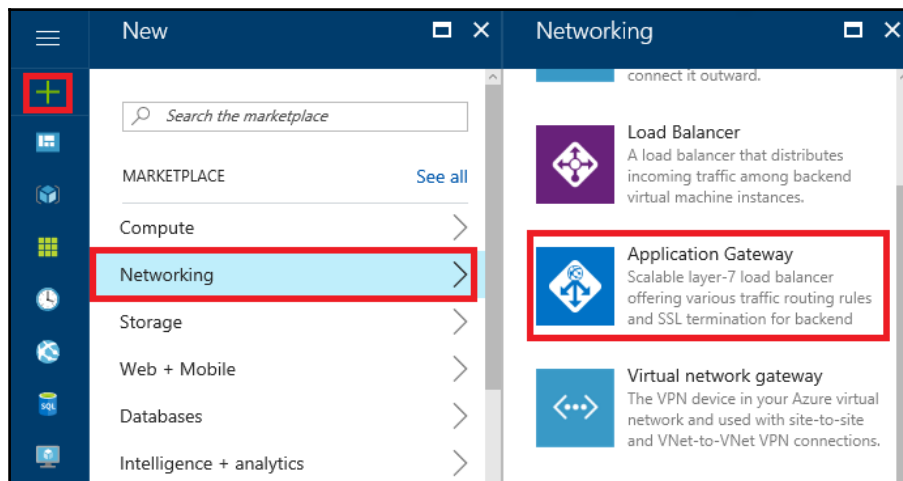
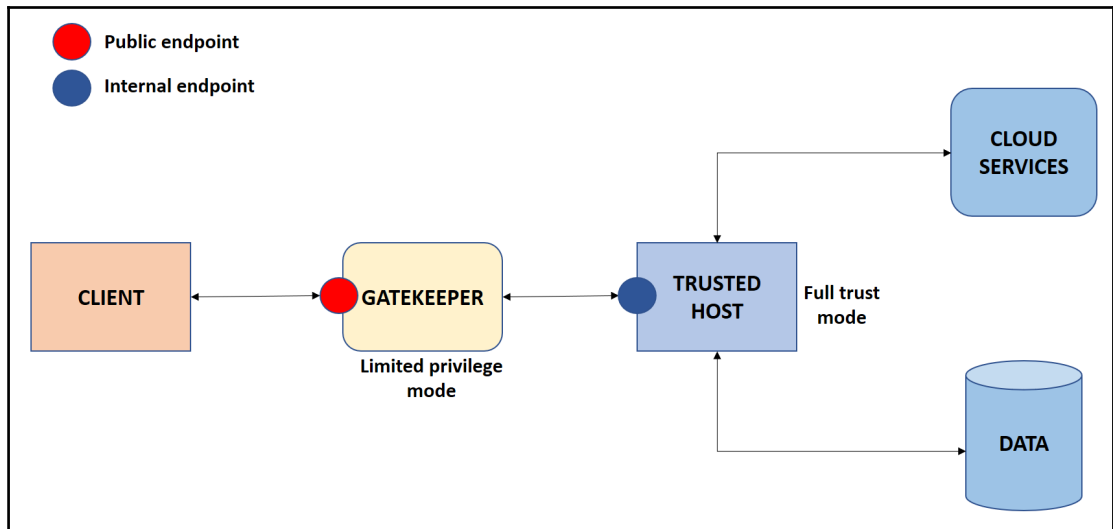
Enable policy

On Off















Microsoft Azure New

New

Search the Marketplace

Azure Marketplace [See all](#) **Featured** [See all](#)

- Get started
- Recently created
- Compute
- Networking
- Storage
- Web + Mobile
- Containers
- Databases
- Data + Analytics
- AI + Cognitive Services
- Internet of Things
- Enterprise Integration**
- Security + Identity

-  Logic App
[Learn more](#)
-  API management
[Learn more](#)
-  On-premises data gateway
[Learn more](#)
-  Integration Account
[Learn more](#)
-  Service Bus
[Learn more](#)
-  Data Factory
[Learn more](#)

API Management service

* Name
MyPacktAPI ✓
.azure-api.net

* Subscription
Microsoft Partner Network

* Resource group
 Create new Use existing
MyPacktAPI-RG ✓

* Location
West Europe

* Organization name ⓘ
Packt ✓

* Administrator email ⓘ
demiliani@outlook.com ✓

Pricing tier (View full pricing details)
Developer (No SLA)

Pin to dashboard

[Create](#) [Automation options](#)

Design Settings **Test** Revisions PREVIEW Change log PREVIEW

Search my operations

GET GetSession

GET GetSessions

GET GetSessionTopics

GET GetSpeaker

GET GetSpeakers

GET GetSpeakerSessions

GET GetSpeakerTopics

GET GetTopic

GET GetTopics

GET GetTopicSessions

GET GetTopicSpeakers

Demo Conference API > GetSpeakers > Console

GetSpeakers

Query parameters

NAME	VALUE	TYPE
dayno	<input type="text" value="value"/>	integer
speakername	<input type="text" value="value"/>	string
+ Add parameter		

Headers

NAME	VALUE	TYPE
Cache-Control	<input type="text" value="no-cache"/>	string
Ocp-Apim-Trace	<input type="text" value="true"/>	bool
Ocp-Apim-Subscription-Key	<input type="text" value="....."/>	string
+ Add header		

Publisher portal **Developer portal**

REVISION 1 UPDATED Sep 25, 2017, 11:...

Design Settings **Test**

Search my APIs

+ Add API

All APIs

Demo Conference API ...

Echo API ...

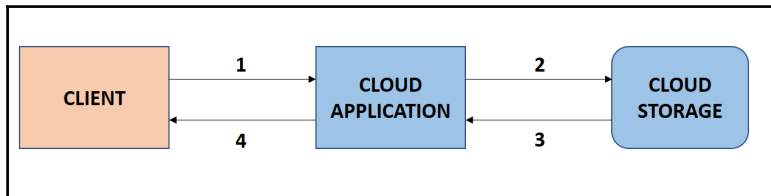
GET GetSession

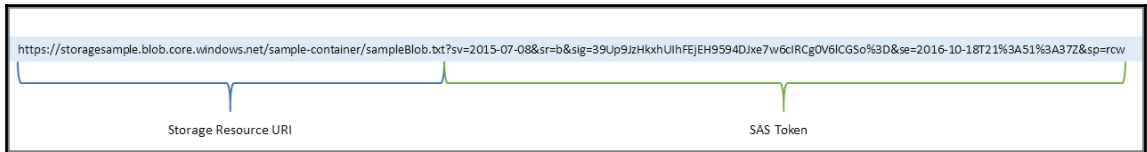
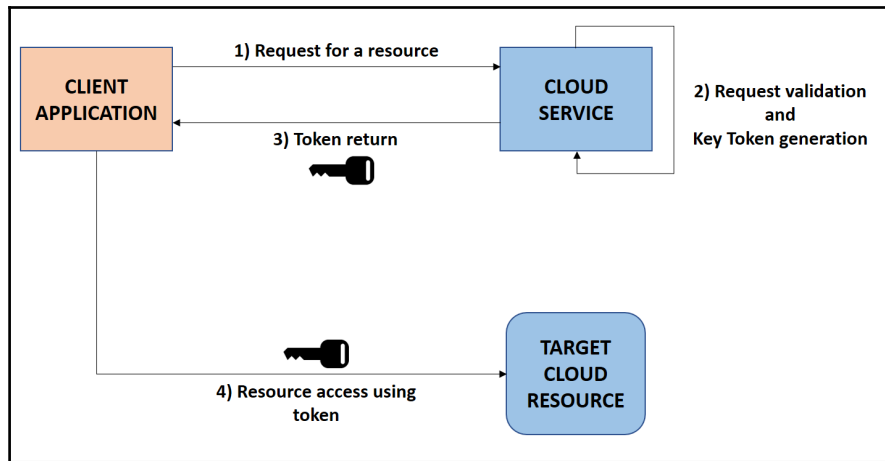
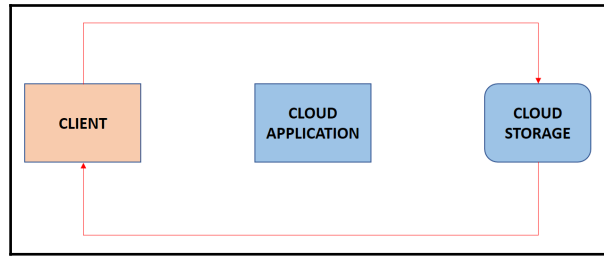
GET GetSessions

GET GetSessionTopics

GET GetSpeaker

GET GetSpeakers





preventstorage2 - Containers
Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

SETTINGS

- Access keys
- Configuration
- Shared access signature
- Firewalls and virtual network...
- Properties
- Locks
- Automation script

BLOB SERVICE

- Containers
- CORS

+ Container Refresh

Storage account
preventstorage2
Status
Primary: Available, Secondary: Available
Location
West Europe, North Europe
Subscription (change)
Microsoft Partner Network
Subscription ID

Search containers by prefix

NAME
demo

