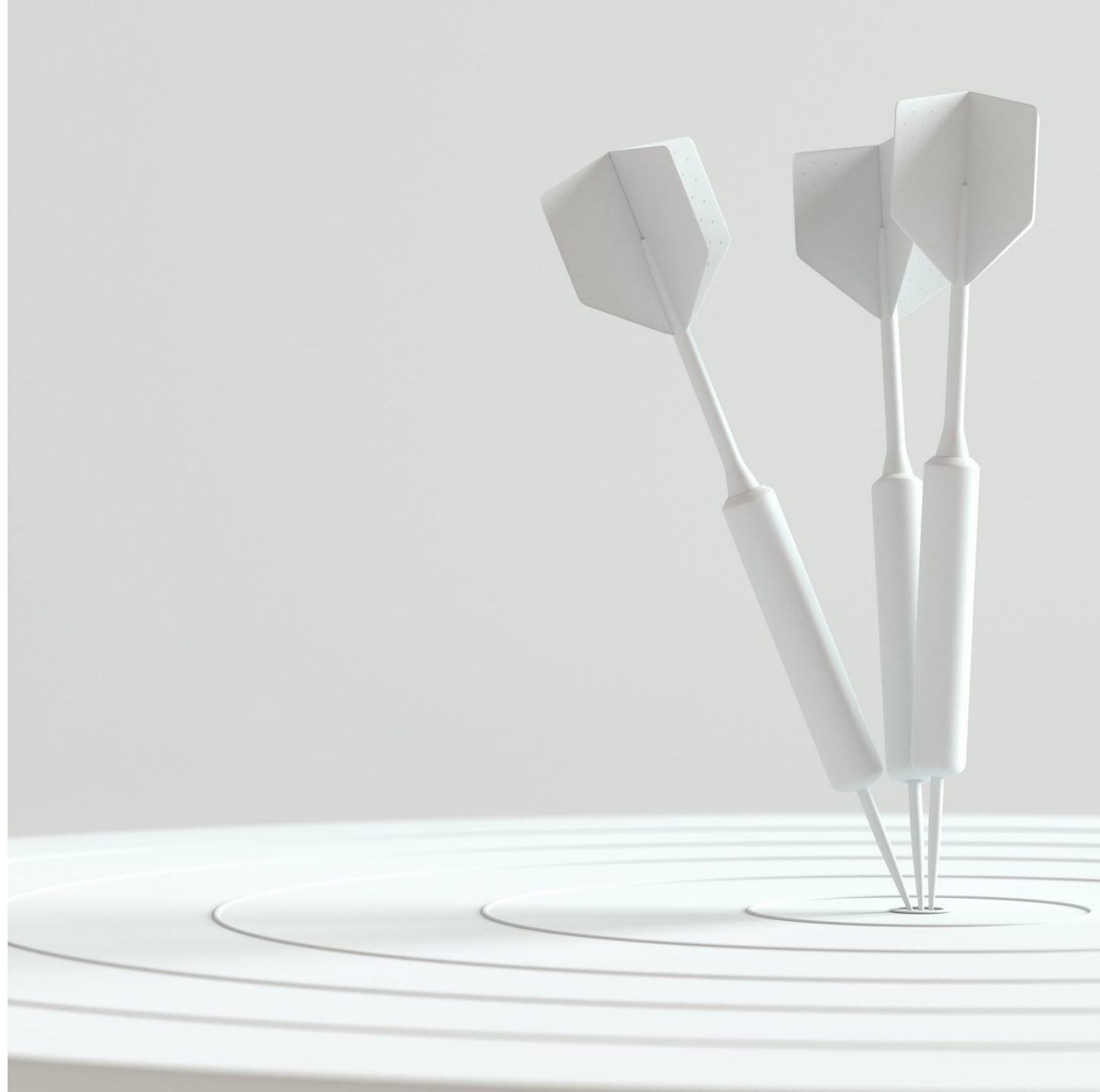




# Solution Assessments



# Solution Assessments

We provide customers with an in depth understanding of the **opportunities** available in their environments to improve productivity, reduce cost and optimize investments.

Our assessments provide insights for data-driven recommendations to help customers determine actionable steps for **digital transformations, cloud migrations and process improvement.**





# Solution Assessments

We utilize **modern tools** to collect and analyze endpoints in a **short period of time** to provide data-driven recommendations and insights like:

- Exposure to Ransomware & other threats
- Software Vulnerabilities
- Missing Antivirus
- Workplace security insights
- OS and SQL End of Support
- SQL Service Pack Deviations
- Hardware Lifecycle Analysis
- Performance Metrics
- Cloud Sizing (IaaS/PaaS)
- Managed Disks Sizing
- Office 365 usage





## Azure Assessment (SMB)

Provides customers with a **fast** data driven analysis of infrastructure **migration** recommendations.

We utilize **modern tools** to collect and analyze endpoints in a **short period of time** to provide insights like:

- Cloud Sizing (IaaS/PaaS)
- Managed Disks Sizing
- OS and SQL End of Support
- Performance Metrics
- Dependency Mapping
- Azure Readiness



# Assessment Report

Sample Outputs

# Operating Systems Lifecycle

150

Devices

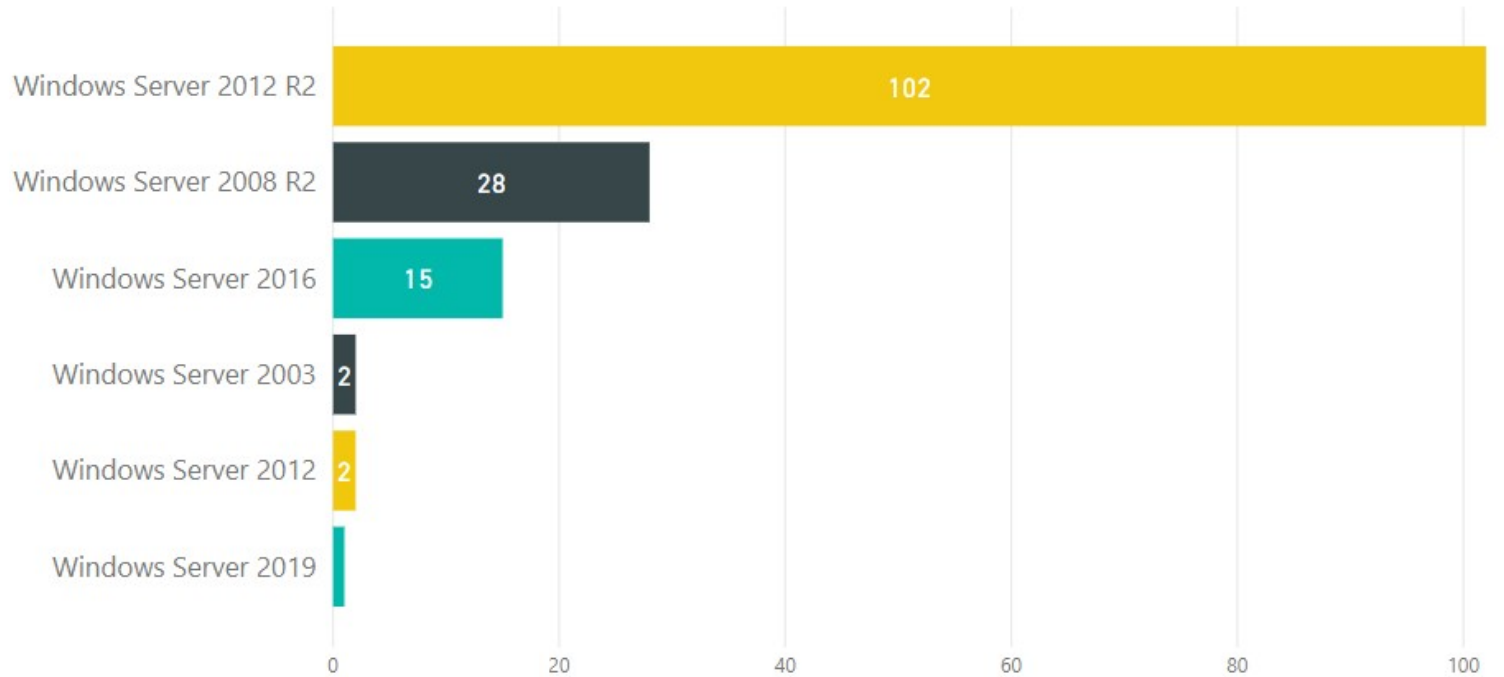
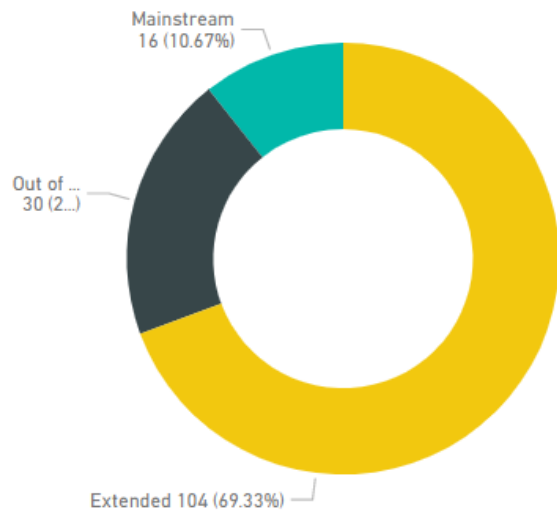
OS Type

Server

## Device Distribution: Operating System Lifecycle

OS Status ● Extended ● Mainstream ● Out of Support

### Lifecycle Analysis - Operating Systems



# Azure Projections

130

Devices

53.53%

Estimated Savings with Right-Sizing

26,072.51

Monthly VM+Storage

312,870.11

Over 1 year Cost VM+Storage

23,583.30

Azure VM per Month

2,489.21

Storage per Month

Azure VM Cost Breakdown (per Month)

23,583.30

Compute Cost

0.00

Windows Server License

0.00

SQL License

Region

Canada Central

Currency

CAD

VM Sizing

- As-Is
- Cost Optimized
- Right-Sized

Storage Scenario

- As-Is
- Cost Optimized
- Right-Sized

Commitment

- 1 year RI
- 3 year RI
- Pay as you Go

Dev/Test Scenario

- 24h/7d
- 8h/5d

AHUB Estimations

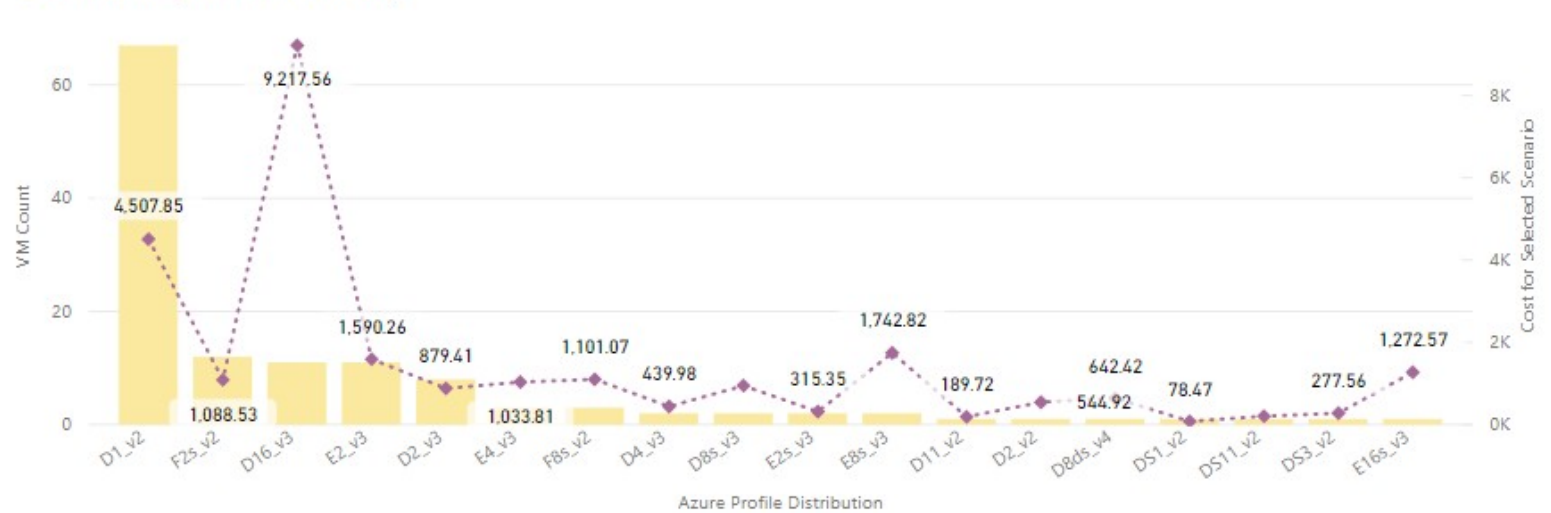
696  
SQL Server Cores

1136  
Windows Server Cores

AHUB Scenario

- Full AHUB
- No AHUB

# Sized Servers Cost Month: VM + Storage



Device Name

Search

Device Name

All

Migration Groups

All

Environment

All

OS Support

All

SQL Edition

All

Device Name	OS Version	SQL Edition	On-Prem Cores	On-Prem RAM (GB)	Azure Profile	Azure vCores	Azure RAM (GB)	AHUB WS	AHUB SQL	Hours Month	Azure VM Cost	Storage Cost	Total Cost	Description
DEMO-00504	2016		8	16	D1_v2	1	4	8	4	730	65.40	18.11	83.51	
DEMO-00503	2012		4	16	D1_v2	1	4	8	4	730	65.40	2.16	67.56	
DEMO-00500	2012	Enterprise	4	32	D1_v2	1	4	8	4	730	65.40	4.24	69.64	
DEMO-00499	2016		2	4	D1_v2	1	4	8	4	730	65.40	4.24	69.64	
DEMO-00498	2016	Enterprise	4	8	F8s_v2	8	16	8	8	730	346.63	61.18	407.81	
DEMO-00497	2016		2	16	D1_v2	1	4	8	4	730	65.40	8.47	73.87	
DEMO-00496	2016		2	16	D1_v2	1	4	8	4	730	65.40	8.47	73.87	
<b>Total</b>			<b>551</b>			<b>420</b>	<b>1873</b>	<b>1136</b>	<b>696</b>		<b>23,583.30</b>	<b>2,489.21</b>	<b>26,072.51</b>	



# Storage & IOPS Analysis

130

Devices

2,489.21

Storage Cost

Region

Canada Central

Currency

CAD

VM Sizing

- As-Is
- Cost Optimized
- Right-Sized

Storage Scenario

- As-Is
- Cost Optimized
- Right-Sized

Commitment

- 1 year RI
- 3 year RI
- Pay as you Go

Dev/Test Scenario

- 24h/7d
- 8h/5d

AHUB Scenario

- Full AHUB
- No AHUB

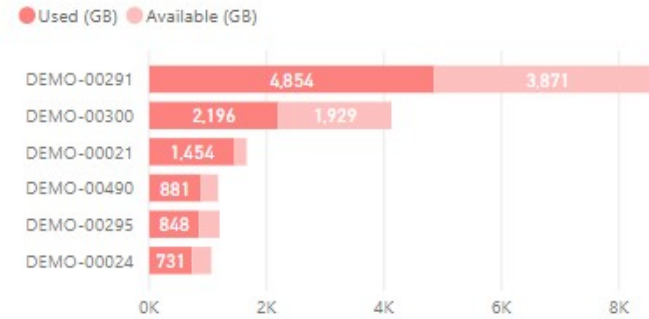
23,445.66

Azure VM

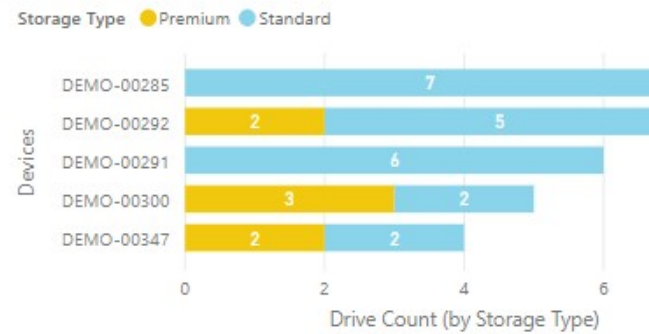
25,934.86

Monthly VM+Storage

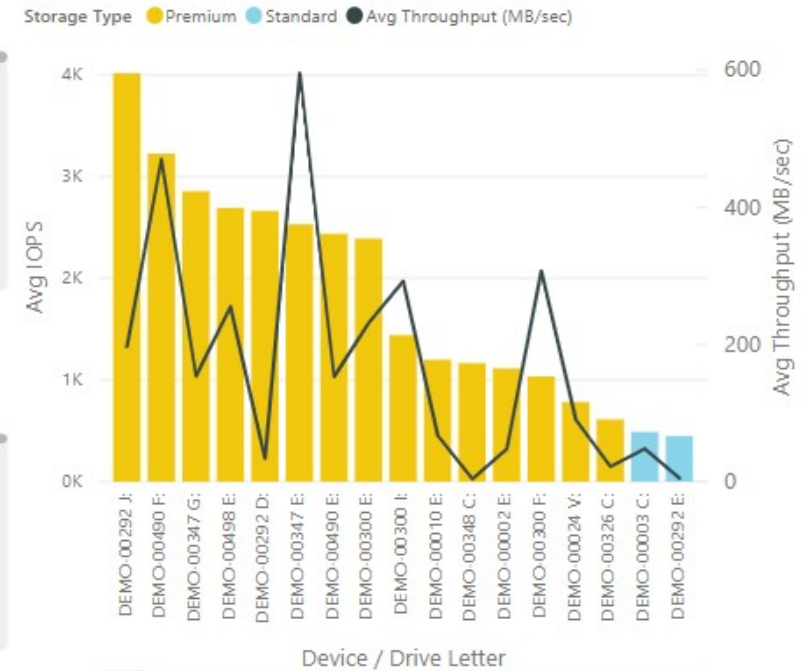
Disk Usage per Server



Drive Mix (Based on Right-Sizing)



IOPS, Throughput and Storage Type Recommendations



Device Name

Device Name

Migration Groups

Environment

OS Support

SQL Edition

On-Prem Profiling: Disk Usage, IOPS & Throughput (MB/sec)

Device	Drive Letter	Total (GB)	Used (GB)	IOPS	Thgpt	Description
DEMO-00001	C:	75	59	44	1	
DEMO-00001	D:	60	48	32	1	
DEMO-00002	C:	125	43	430	19	
DEMO-00002	E:	100	92	1115	48	
DEMO-00003	C:	120	106	490	48	
<b>Total</b>		<b>40,108</b>	<b>20,018</b>	<b>50898</b>	<b>3859</b>	

Azure Managed Disks Sizing Scenarios

Storage Sizing	1. As-Is			2. Right-Sized			3. Cost Optimized		
	Disk Profile	Size (GB)	Monthly Cost	Disk Profile	Size (GB)	Monthly Cost	Disk Profile	Size (GB)	Monthly Cost
DEMO-00001/C:	S10	128	8.29	S10	128	8.29	S6	64	4.24
DEMO-00001/D:	S6	64	4.24	S6	64	4.24	S6	64	4.24
DEMO-00002/C:	S10	128	8.29	S10	128	8.29	S6	64	4.24
DEMO-00002/E:	S10	128	8.29	P20	512	93.71	P10	128	25.23
<b>Total</b>	<b>P10</b>	<b>54784</b>	<b>5,612.33</b>	<b>P15</b>	<b>103296</b>	<b>11,477.39</b>	<b>P10</b>	<b>30296</b>	<b>2,489.21</b>

Azure storage profiles are available as "Standard" and "Premium". And this is where IOPS becomes a key factor. If a disk's IOPS exceeds 500 or has a throughput greater than 60MB per second during an ARC scan, then Movere will recommend Premium storage SKUs. [More information at: Movere: Cloud Storage Sizing & Pricing](#)



# Network Throughput

Device Name

Migration Groups

Environment

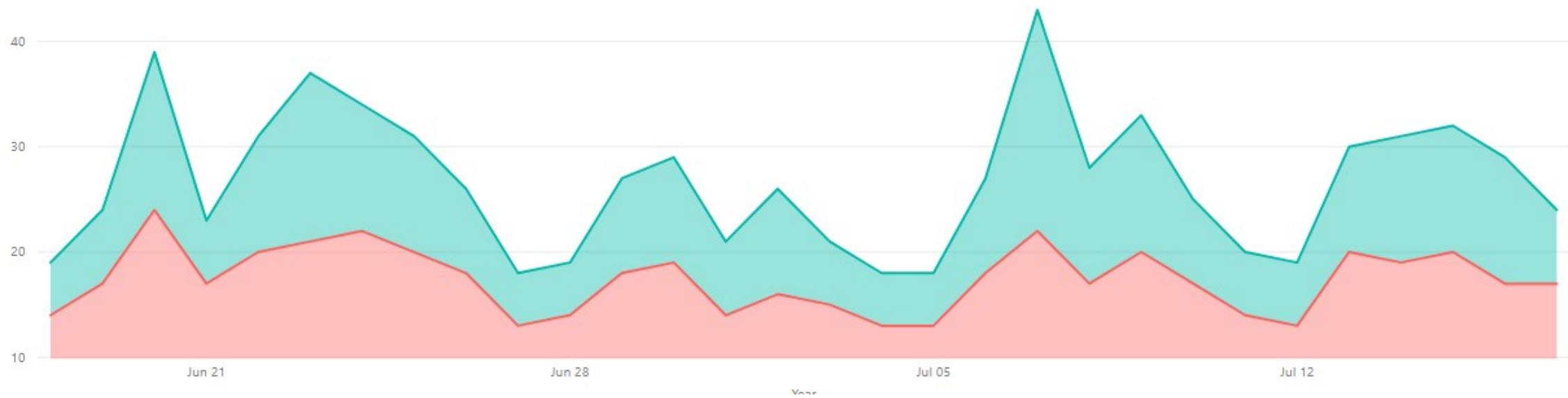
1,007,414

Max of Sent Throughput (MBpA)

1,232,535

Max of Received Throughput (MBpA)

● Max of Sent Throughput (MBpA) ● Max of Received Throughput (MBpA)



# Infrastructure Optimization - Dependency Mapping

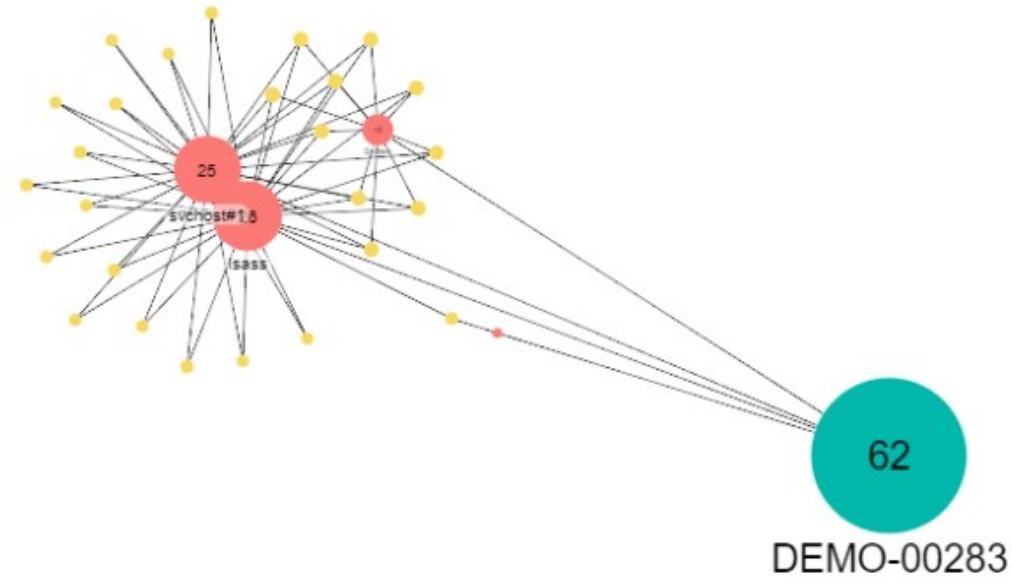
Device Name: 
 Environment: 
 Process Name: 
 State: 
 Environment (Foreign): 
 Foreign Devices:

Device Name: 
 Migration Groups:

Foreign Device: 
 Migration Groups (Foreign):

1 Servers Selected

- Servers
- DEMO-00283



26 Foreign Devices

- Foreign Devices
- DEMO-00001
- DEMO-00003
- DEMO-00004
- DEMO-00005
- DEMO-00006
- DEMO-00007
- DEMO-00008
- DEMO-00009
- DEMO-00011
- DEMO-00012
- DEMO-00014
- DEMO-00015
- DEMO-00016
- DEMO-00017
- DEMO-00018
- DEMO-00019
- DEMO-00020
- DEMO-00024
- DEMO-00025
- DEMO-00026
- DEMO-00027
- DEMO-00028
- DEMO-00245

● Shortname     
 ● Process Name     
 ● Foreign Device

Server	Process Name	Process Path	Local Port	State	Foreign Port	Foreign Device
DEMO-00283	lsass	C:\Windows\system32\lsass.exe	389	Established	228754	DEMO-00003
DEMO-00283	lsass	C:\Windows\system32\lsass.exe	389	Established	114267	DEMO-00012
DEMO-00283	lsass	C:\Windows\system32\lsass.exe	389	Established	435302	DEMO-00015
DEMO-00283	lsass	C:\Windows\system32\lsass.exe	389	Established	247035	DEMO-00016
DEMO-00283	lsass	C:\Windows\system32\lsass.exe	389	Established	536812	DEMO-00019
DEMO-00283	lsass	C:\Windows\system32\lsass.exe	389	Established	164985	DEMO-00026
DEMO-00283	lsass	C:\Windows\system32\lsass.exe	389	Established	227601	DEMO-00028
<b>Total</b>					<b>30058708</b>	

# SQL Overview

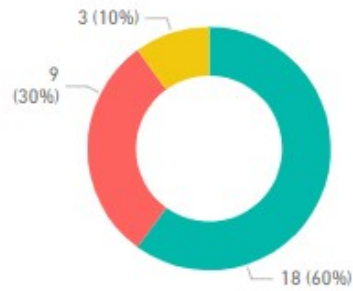
SQL Alert?

No Yes

20  
Devices  
30  
Instances  
558  
Databases

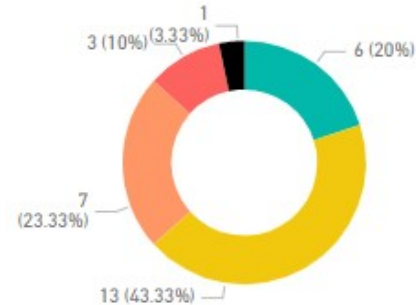
SQL Instances Lifecycle

Mainstream Out Extended

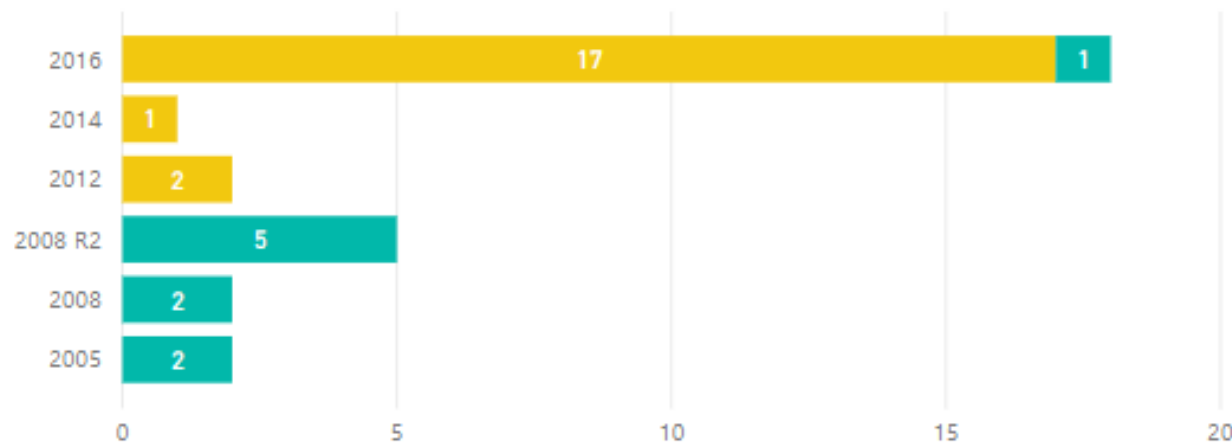


SQL Instances Service Pack Deviation

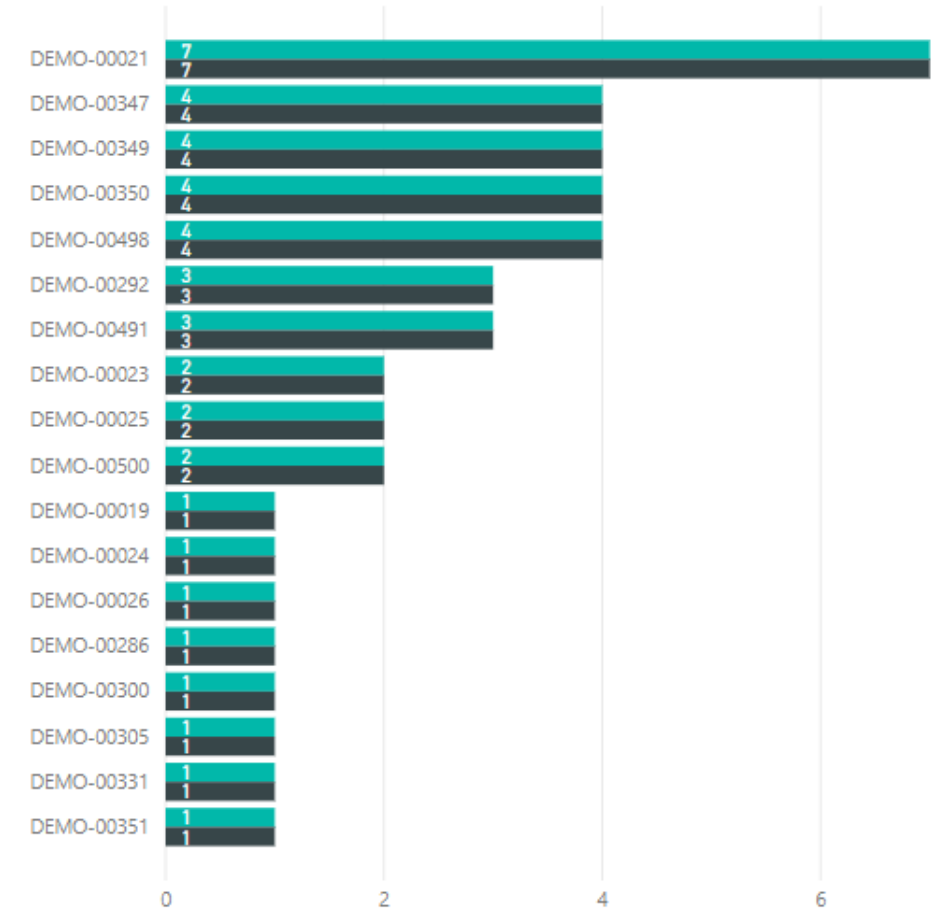
0 1 2 3 4



Edition Enterprise Standard

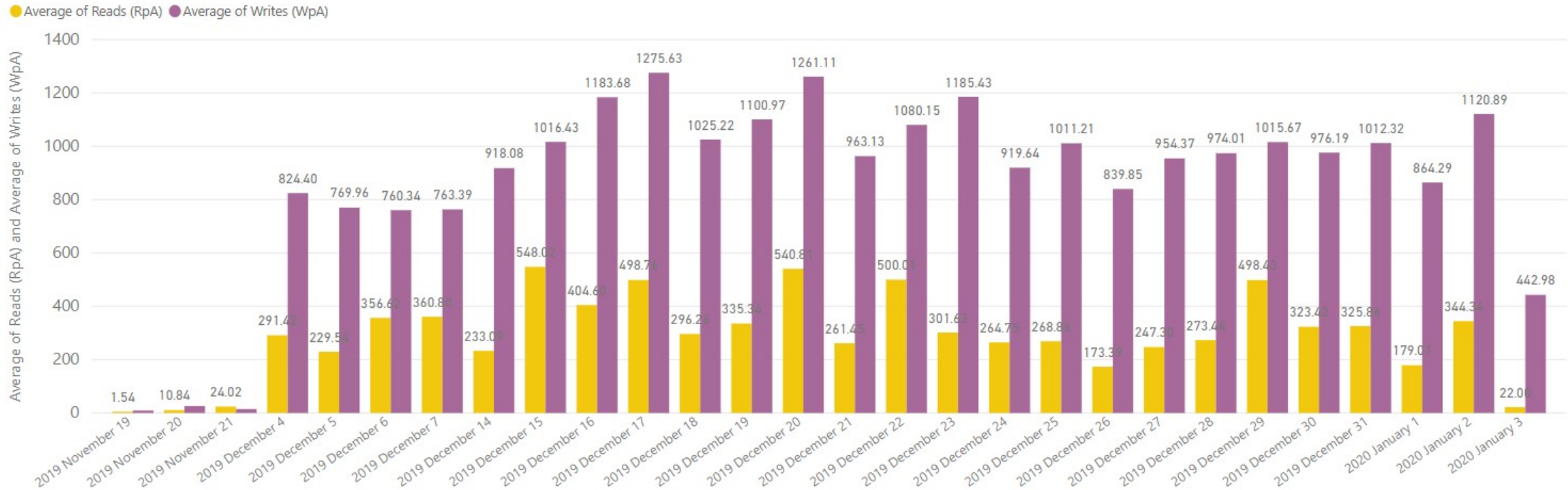


Running Components Installed Components



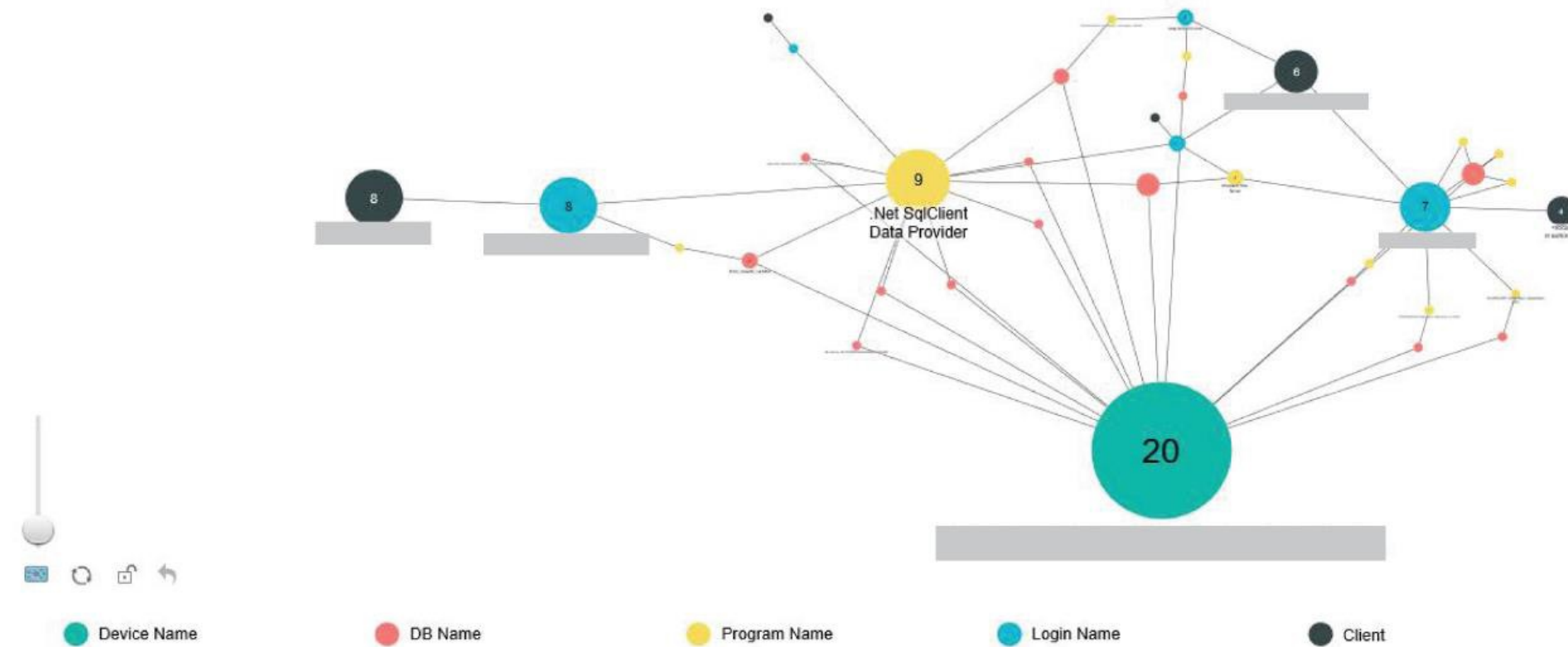


# SQL Performance – Average Reads & Writes



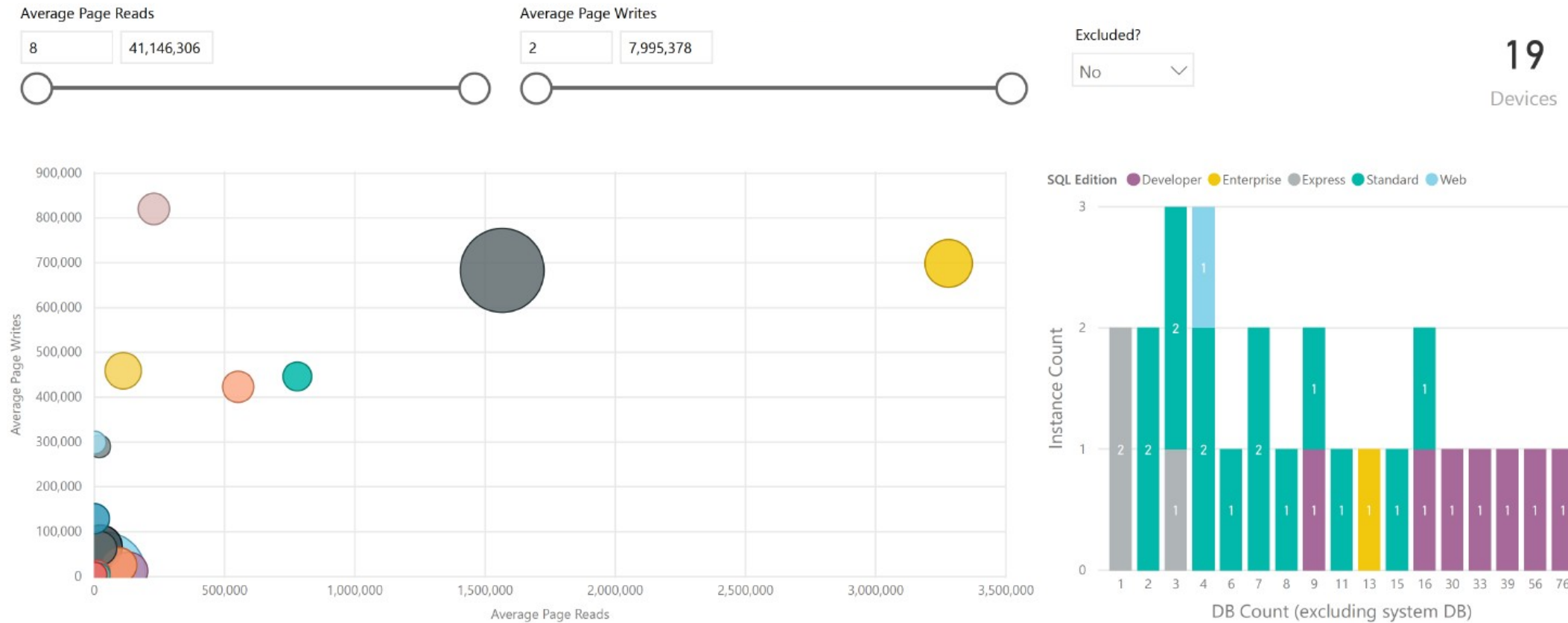
*Note: requires additional SQL Permissions. Please review Movere scanning prerequisites for SQL.*

# SQL Database Connections



*Note: requires additional SQL Permissions. Please review Movere scanning prerequisites for SQL.*

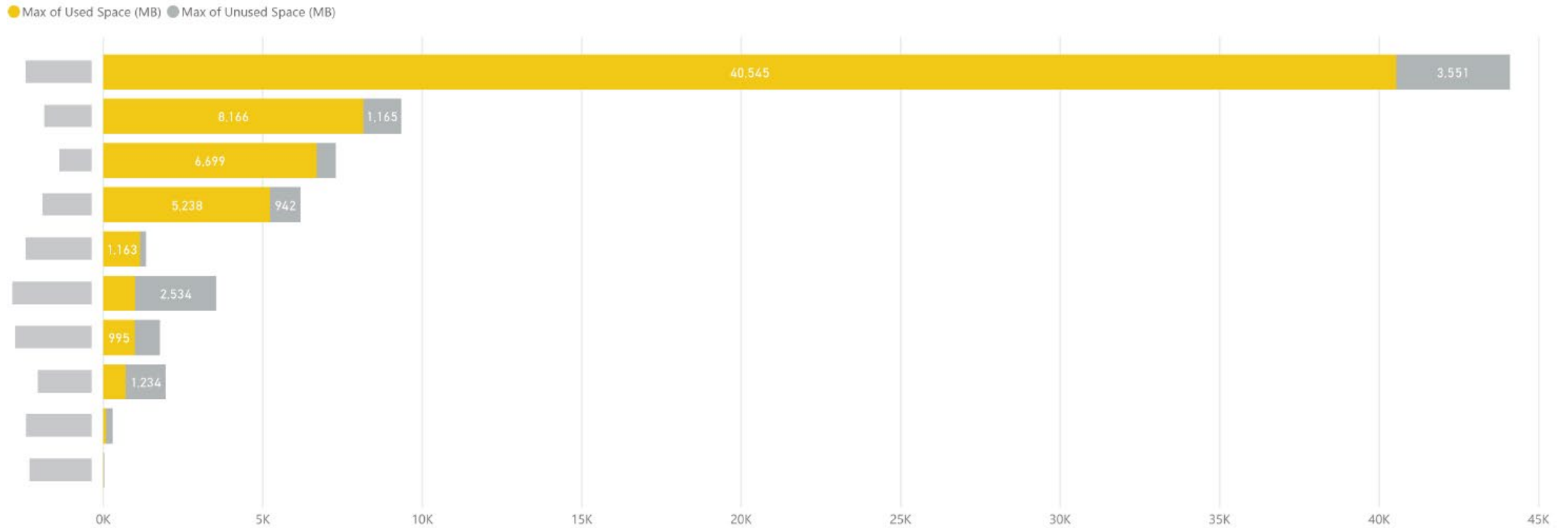
# SQL Activity



*Note: requires additional SQL Permissions. Please review Movere scanning prerequisites for SQL.*



# Database Usage



*Note: requires additional SQL Permissions. Please review Movere scanning prerequisites for SQL.*

# SQL Overview

145

Devices

197

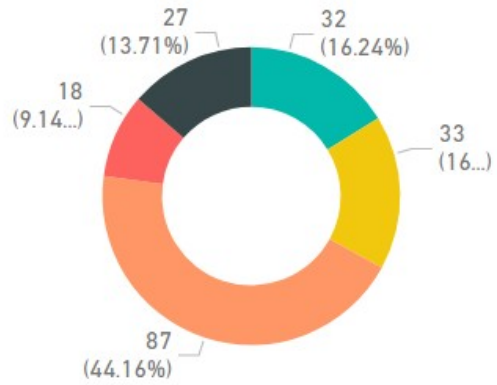
Instances

836

Services

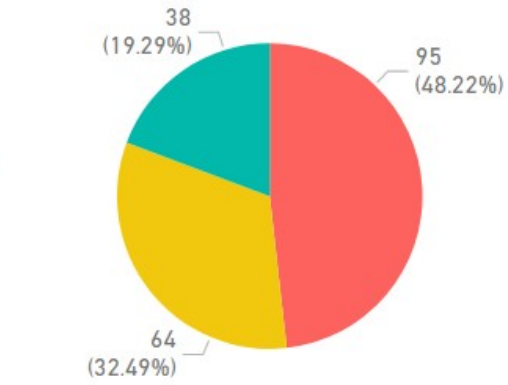
SQL Service Pack Deviations

● 0 ● 1 ● 2 ● 3 ● 4

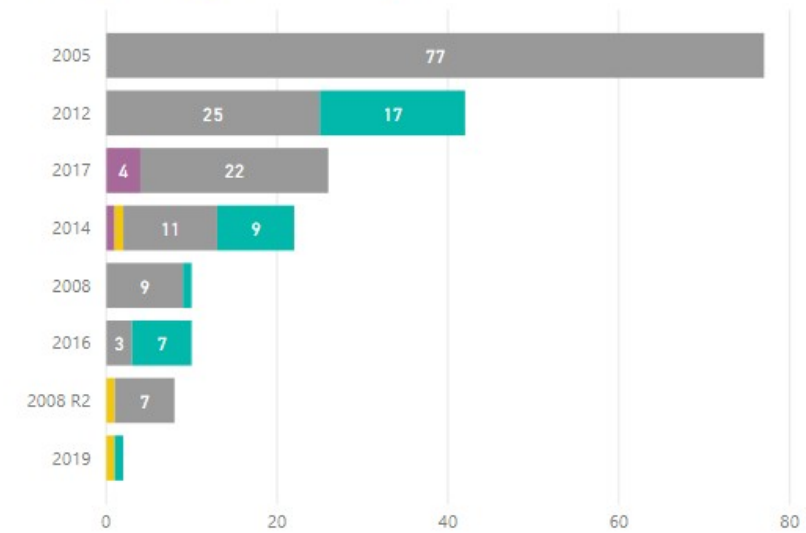


SQL Lifecycle Analysis

● Out ● Extended ● Mainstream



Edition ● Developer ● Enterprise ● Other ● Standard



Device Name

Environment

Dev/Test
  Productive

Service Running?

No
  Yes

Device Name	Instance Name	Machine Type	Service Pack	Max SP	SP Deviation	Total Cores
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	12.3.6024	3	3	16
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	12.3.6024	3	3	20
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	RTM	0	0	0
SAMPLE	SAMPLE_SQL_INSTANCE	Physical	RTM	0	0	4
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	RTM	0	0	4
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	RTM	2	2	12
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	RTM	2	2	16
SAMPLE	SAMPLE_SQL_INSTANCE	Physical	RTM	3	3	4
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	RTM	3	3	4
SAMPLE	SAMPLE_SQL_INSTANCE	Physical	RTM	4	4	2
SAMPLE	SAMPLE_SQL_INSTANCE	Physical	RTM	4	4	4
SAMPLE	SAMPLE_SQL_INSTANCE	Virtual	RTM	4	4	4

Device Name	Running	Service Name	Service Description	Start Type
SAMPLE	Yes	MsDtsServer110	SQL Server Integration Services 11.0	Auto
SAMPLE	Yes	MsDtsServer120	SQL Server Integration Services 12.0	Auto
SAMPLE	Yes	MsDtsServer120	SQL Server Integration Services 12.0	Manual
SAMPLE	Yes	MsDtsServer140	SQL Server Integration Services 14.0	Auto
SAMPLE	Yes	MsDtsServer150	SQL Server Integration Services 15.0	Auto
SAMPLE	Yes	MSOLAP\$AX	SQL Server Analysis Services (AX)	Auto
SAMPLE	Yes	MSOLAP\$PROJECT	SQL Server Analysis Services (PROJECT)	Auto
SAMPLE	Yes	MSOLAP\$SCCM2012	SQL Server Analysis Services (SCCM2012)	Auto
SAMPLE	Yes	MSOLAP\$SCSM2016	SQL Server Analysis Services (SCSM2016)	Auto
SAMPLE	Yes	MSOLAP\$SQL2017	SQL Server Analysis Services (SQL2017)	Auto
SAMPLE	Yes	MSOLAP\$TABULAR	SQL Server Analysis Services (TABULAR)	Auto
SAMPLE	Yes	MSSQL\$AACRSQLEXPRESS	SQL Server (AACRSQLEXPRESS)	Auto

# IaaS & PaaS Projections

Region (Cost in USD) ▾

○ East US 2

SQL Edition ▾

All ▾

OS Support Status ▾

All ▾

SQL Support Status ▾

All ▾

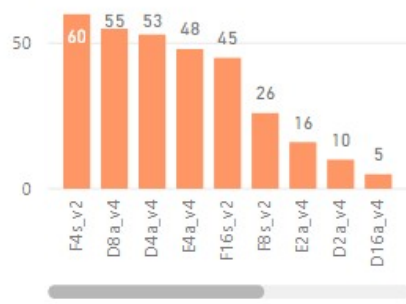
Environment ▾

All ▾

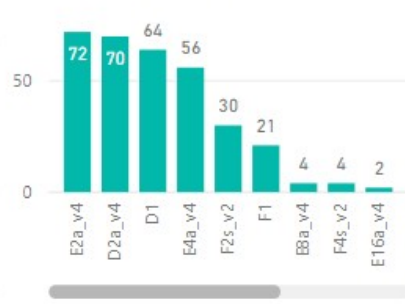
Device Name

Search 🔍

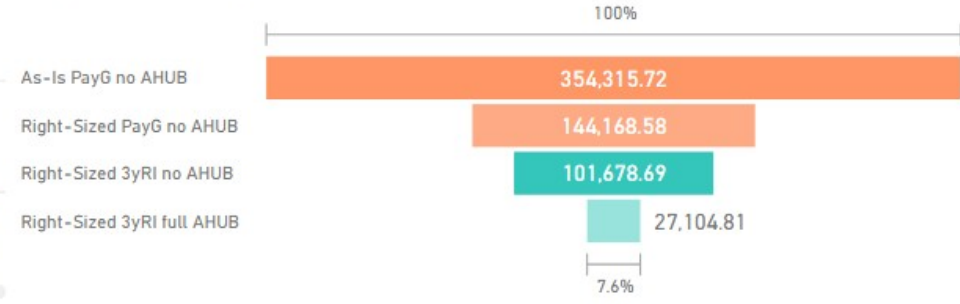
As-Is VM Profile Distribution



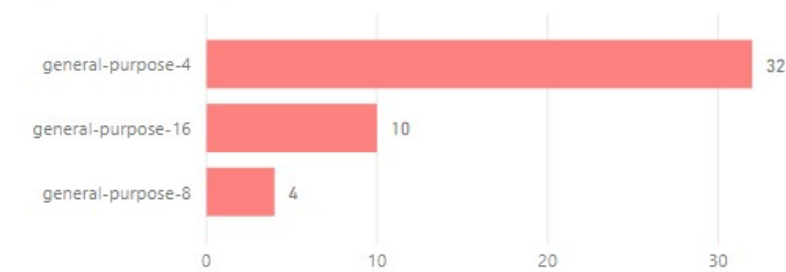
Right-Sized VM Profile Distribution



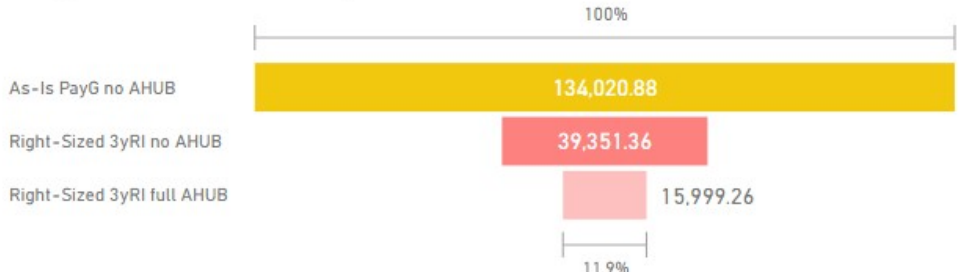
VM Scenario Cost Comparison



Right-Sized SQL Managed Instance Size Distribution



Managed Instance Scenario Cost Comparison



Server Migration Scenarios: Azure VMs & SQL Managed Instances

Device Name	OS Version	SQL Edition	SQL Version	AI VM Profile	RS VM Profile	AI-PayG-COS	RS-3yRI-COS	RS-3yRI-C	RS SQL MI Size	SQL
SAMPLE	2008			F4s_v2	D1	475.96	112.93	45.77		
SAMPLE	2008 R2			D2a_v4	D1	274.48	112.93	45.77		
SAMPLE	2008 R2			E2a_v4	D1	636.56	225.86	91.54		
SAMPLE	2008 R2			F4s_v2	D1	2,379.80	564.66	228.86		
SAMPLE	2008 R2			F8s_v2	D1	1,900.92	225.86	91.54		
SAMPLE	2012 R2			D2a_v4	D1	274.48	112.93	45.77		
SAMPLE	2012 R2			D4a_v4	D1	7,136.48	1,468.10	595.02		
SAMPLE	2012 R2			E2a_v4	D1	636.56	225.86	91.54		
SAMPLE	2012 R2			F4s_v2	D1	4,759.60	1,129.31	457.71		
SAMPLE	2012 R2			F8s_v2	D1	1,900.92	225.86	91.54		
SAMPLE	2016			D2a_v4	D1	823.44	338.79	137.31		
<b>Total</b>						<b>354,315.72</b>	<b>101,678.69</b>	<b>27,104.81</b>		

Storage Profiling (Managed Disks)

Device Name	Disk Name	Azure Profile	Price Per Month	Used Space (GB)
SAMPLE	0 C:	premiumssd-p10	5,519.36	13,401.59
SAMPLE	0 C:	premiumssd-p15	1,589.76	1,845.17
SAMPLE	0 C:	premiumssd-p20	1,597.44	2,719.12
SAMPLE	0 C:	premiumssd-p6	278.40	608.25
SAMPLE	0 C: D:	premiumssd-p20	2,662.40	419.51
SAMPLE	0 C: D:	premiumssd-p40	471.04	735.53
SAMPLE	0 C: D: K:	premiumssd-p4	9.60	33.83
SAMPLE	0 C: E:	premiumssd-p20	532.48	3.62
SAMPLE	0 C: E:	premiumssd-p6	37.12	10.76
SAMPLE	0 F: D:	premiumssd-p4	902.42	2,819.98
SAMPLE	1 B:	premiumssd-p15	69.12	257.22
SAMPLE	1 D:	premiumssd-p15	345.60	446.64
<b>Total</b>			<b>68,483.13</b>	<b>859,130.57</b>

Cost Acronyms: AI = As-Is; RS = Right-Sized | PayG = Pay as you go; 1yRI = 1 year Reserved Instances; 3yRI = 3 year Reserved Instances; C = Compute Cost; O = Operating System Cost; S = SQL Cost. (AHUB removes O and S cost) | SQL MI = SQL Managed Instance

**68,483.13**

Storage price Per Month (add to Azure VM Cost)



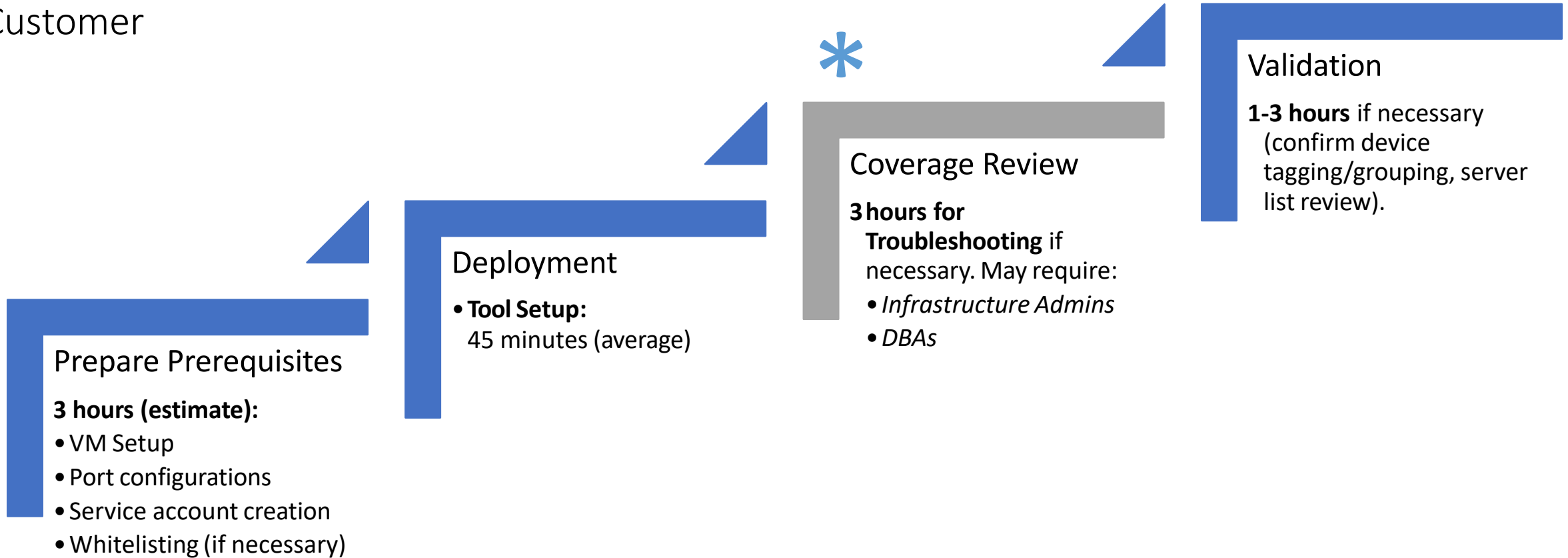


# Next Steps

Prepare Prerequisites and Deploy Tool

# Time Investment

Customer



*Estimated times may vary depending on internal roles, policies and procedures (e.g. change controls, approval processes)*

# Process Overview

Multi-Cloud



Preparing

Discovery

Analysis

Delivery

- Present assessment
- Align **expectations and scope**
- Prepare **prerequisites**

- Tool **deployment (45 minutes)**
- Check data quality

- Generate **deliverables**
- Validation
- Adjustments

- Closing meeting
- Identify **opportunities**
- Hand-off

2 to 21 days

1 to 6 days

1 day

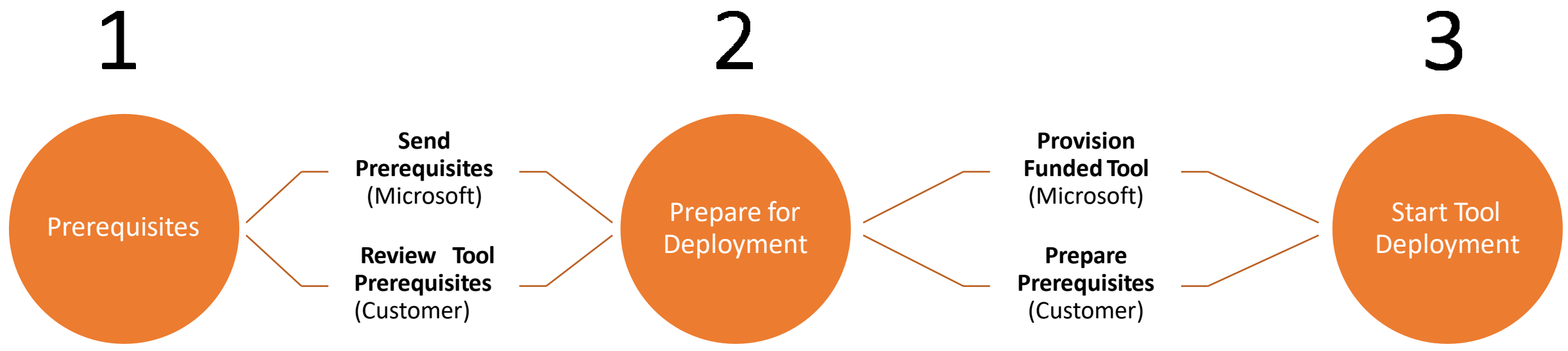
1 to 7 days

Project Execution Estimated Time: 4 to 28 days

Total Estimated Time: 5 to 35 days (depending on required tool and outputs)



# Next Steps



**THANK YOU**



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