

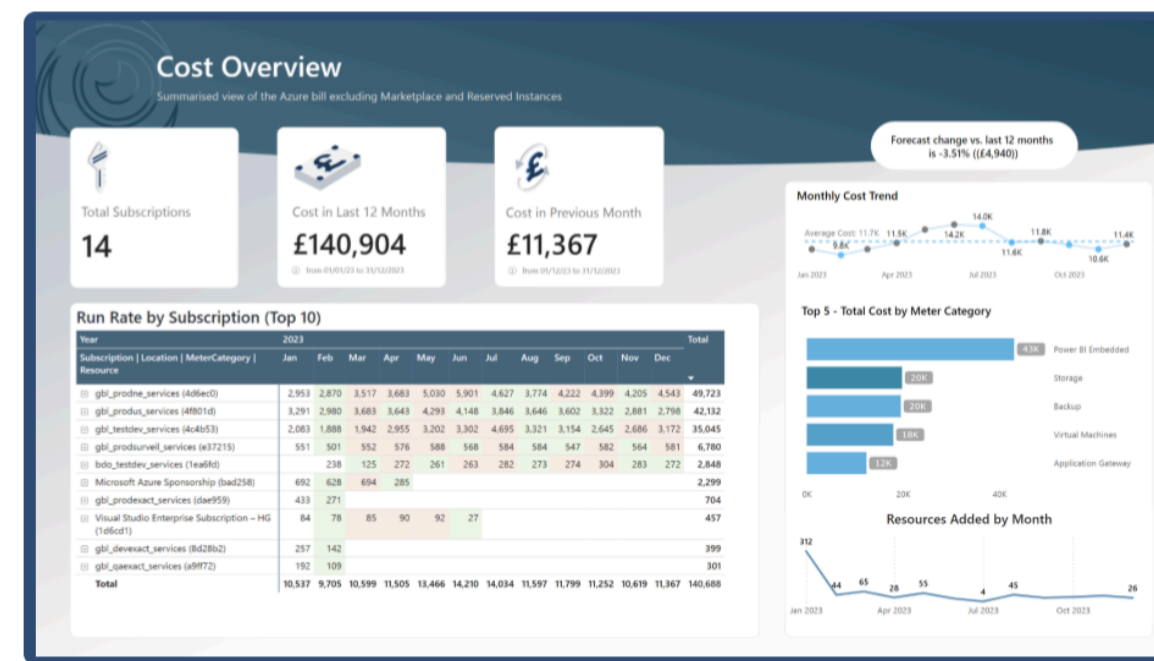
# Azure Health Check

June 2024

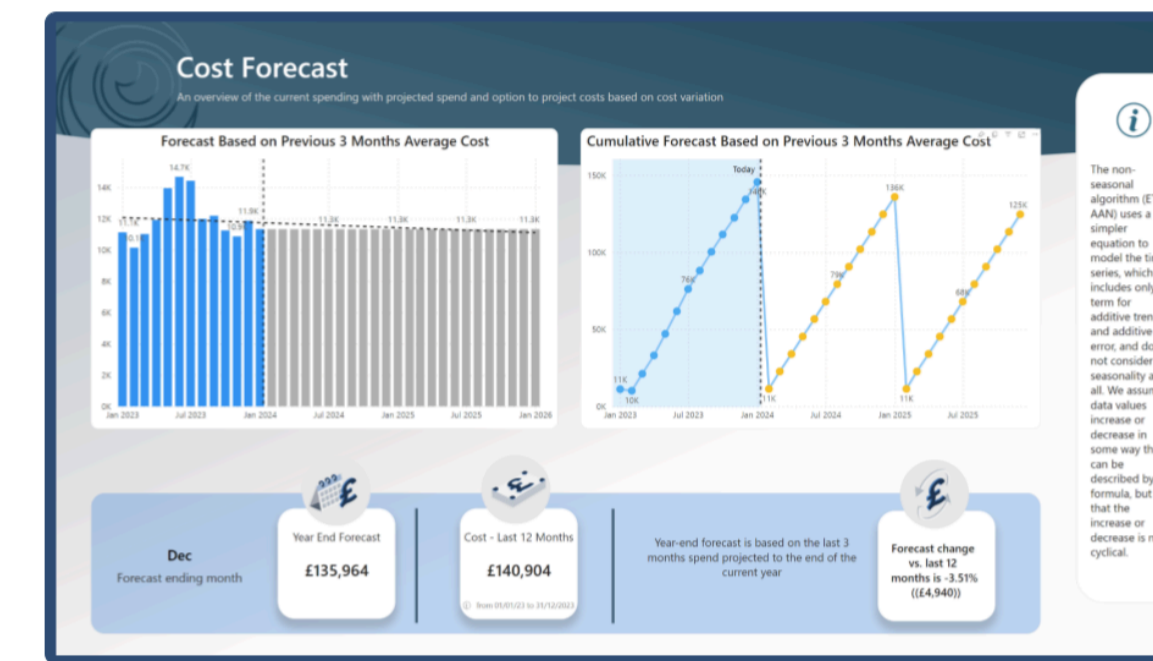
SCOUT-Demo-Company

# Take control with informed Azure decisions

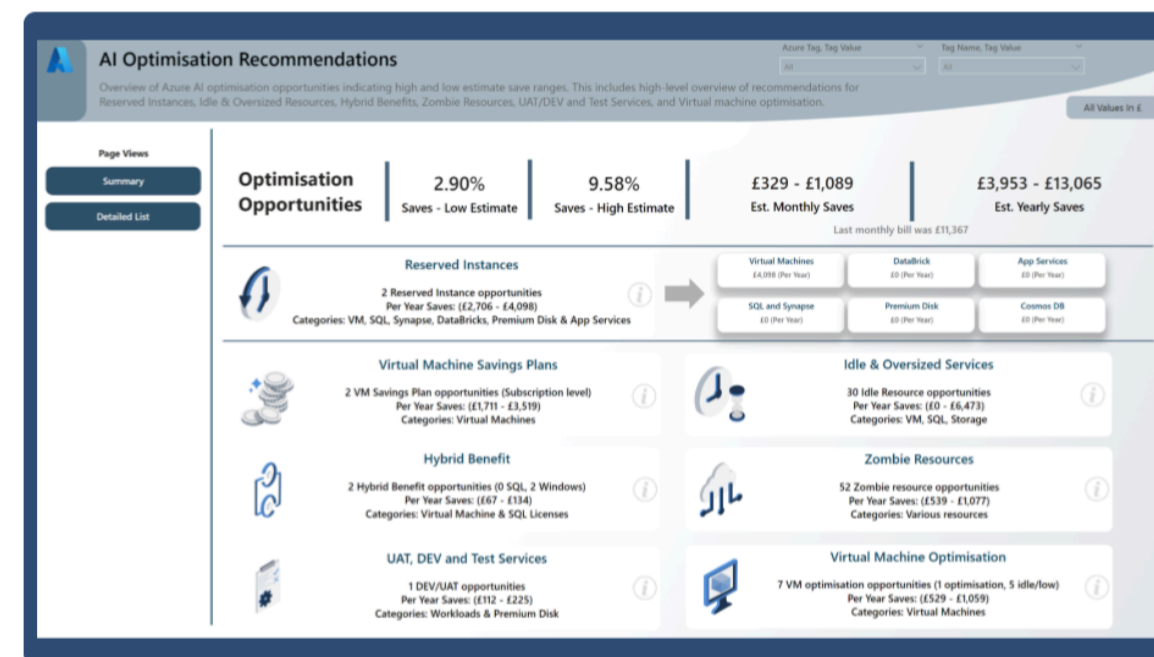
Bring visibility and clarity to the cloud landscape with in-depth analytics aligned to FinOps lifecycle stages.



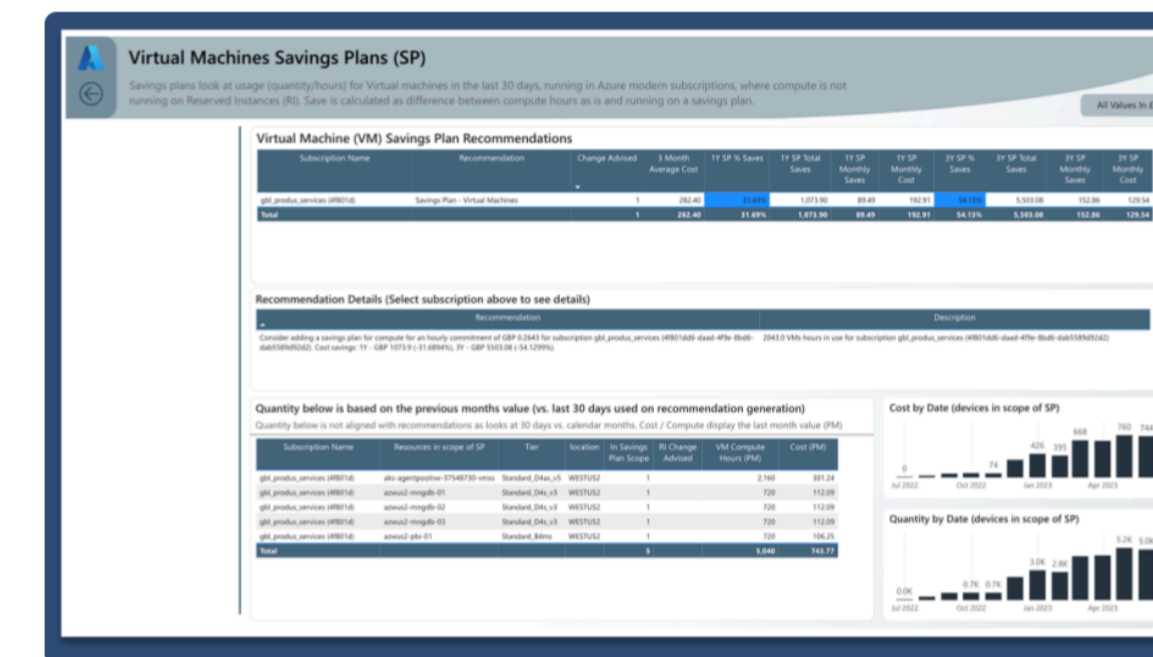
**Clarity on Azure Billing**  
Make sense of your usage and fixed contract costs through Surveil's powerful analytics and forecasting capabilities.



**Cloud Economics**  
Investigate and adapt spend to your changing cloud landscape.



**Ask EREN**  
Our Expert Recommendations Engine (EREN)'s ready to help drive cost optimisation.



**Smarter Tagging**  
Use AI tagging to align IT billing with business categories and link resources to business contexts, empowering FinOps cost control activities.



**Cost Strategies**  
Investigate and adapt spend to your changing cloud landscape.



**Best Practices**  
Maximise the impact of your latest deployment by knowing what questions to ask around resilience, security, optimising usage and cost, and much more.

# Smart M365 Optimisation

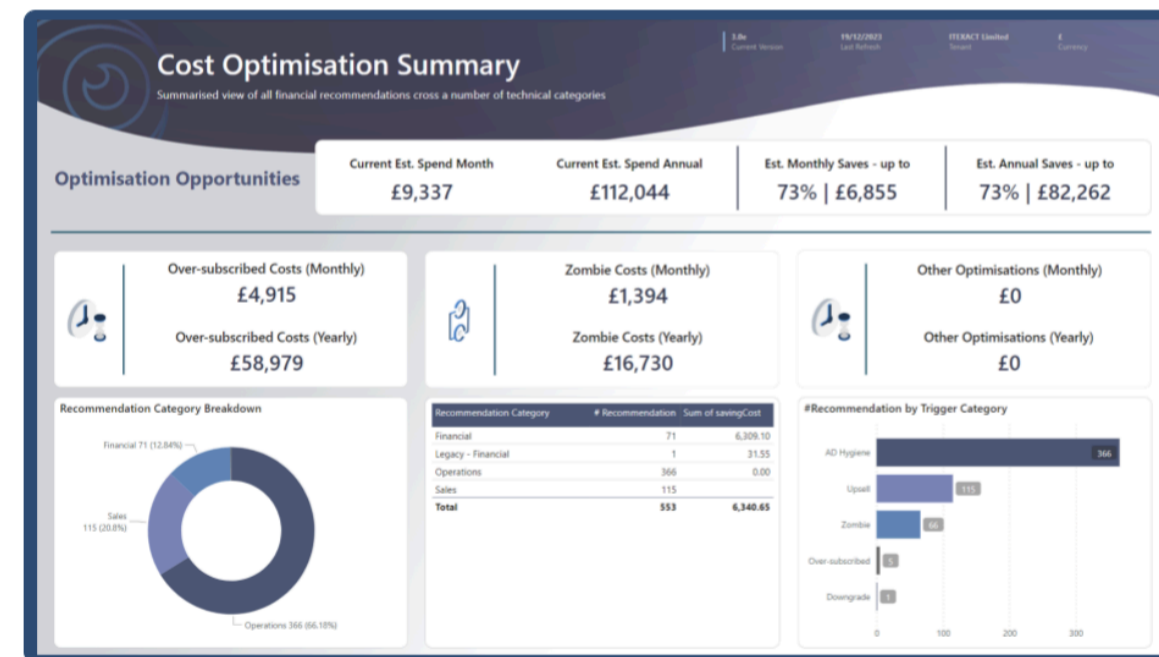
Cloud optimisation can take many forms – cost, productivity, adoption; We're ready to drive them all.



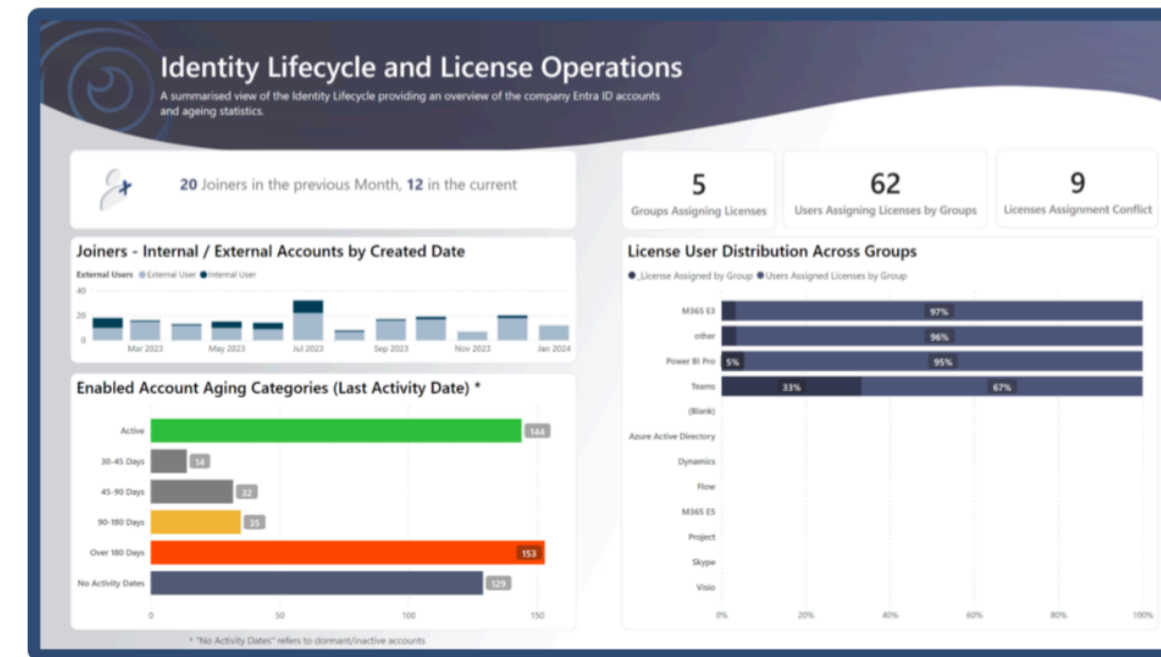
**Convert Waste to Value**  
Manage, improve, and contextualise cloud spend with FinOps.



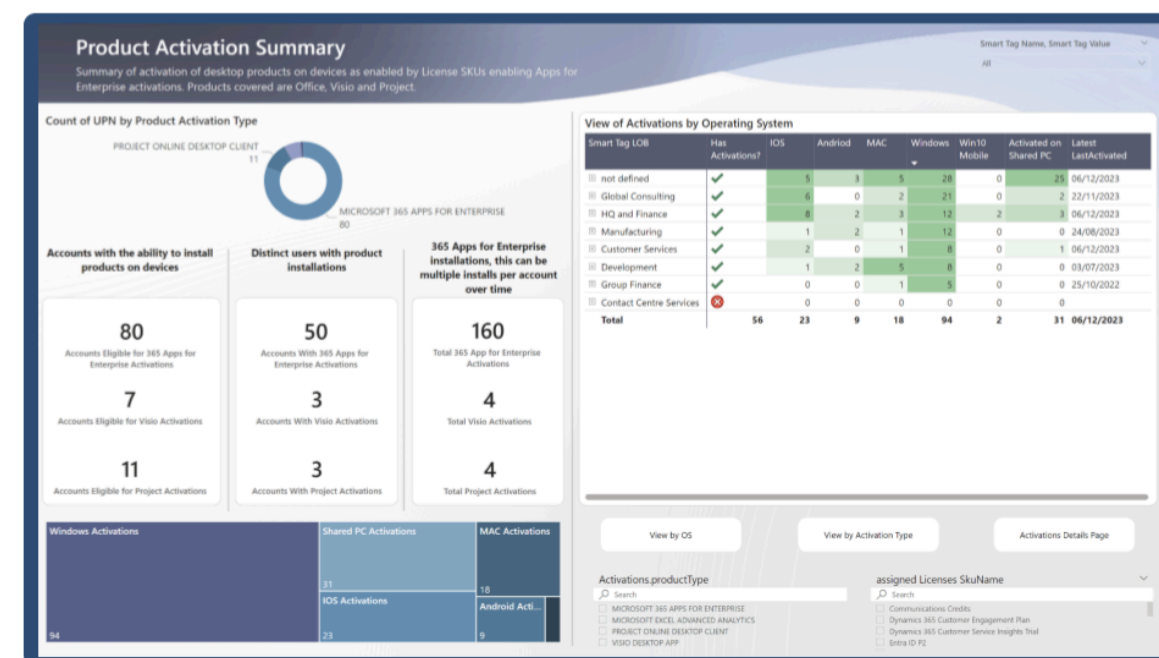
**Renewal Planning**  
Use relevant recommendations to secure savings averaging 18-37%



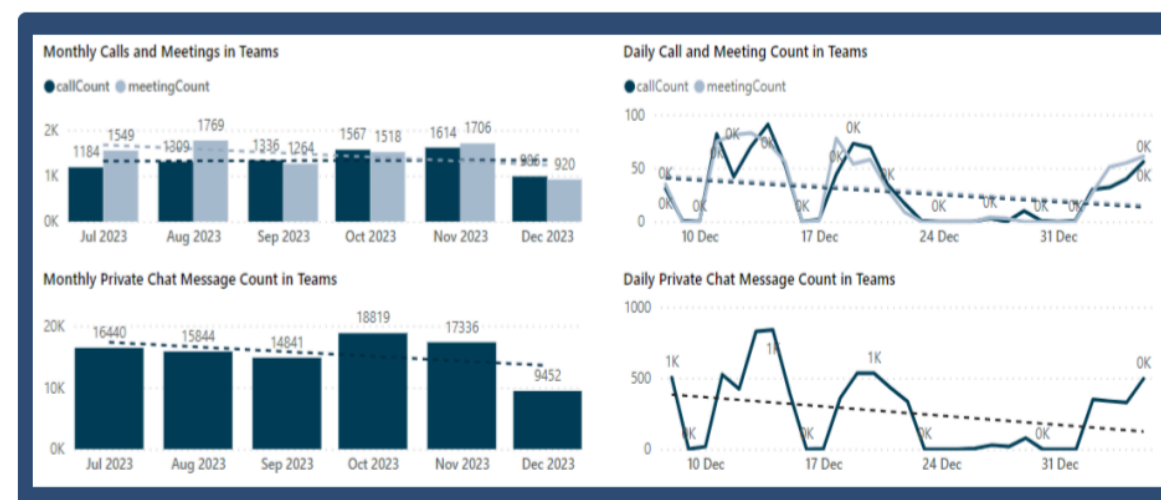
**Ease of Visibility**  
Demystify the Microsoft environment with easy-to-understand dashboards



**Manage Leavers**  
Reduce the cost and risk of leaver accounts.



**Drive Adoption**  
Leverage usage and adoption trends to drive M365 change programmes and maximise ROI.



**Improve Productivity**  
Make operational improvements and understand the impact of change on employees.

# AI Optimisation Recommendations

Summarised view of all savings opportunities across a number of technical categories

## Optimisation Opportunities

Saves - Low Estimate

4.99%

Saves - High Estimate

12.21%

Est. Monthly Saves

£583 - £1,426

Est. Annual Saves

£6,996 - £17,114



Reserved Instances (6)

£9,067

Annually



Virtual Machine Optimisation (6)

£645

Annually



Hybrid Benefit (4)

£48

Annually



Idle & Oversized (25)

£6,061

Annually



Zombie Resources (66)

£1,068

Annually



UAT, DEV and Test Services (3)

£225

Annually



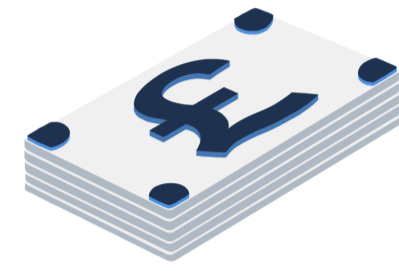
# Cost Overview

Summarised view of the Azure bill excluding Marketplace and Reserved Instances



Total Subscriptions

11



Cost in Last 12 Months

£136,775

from 01/07/23 to 31/05/2024



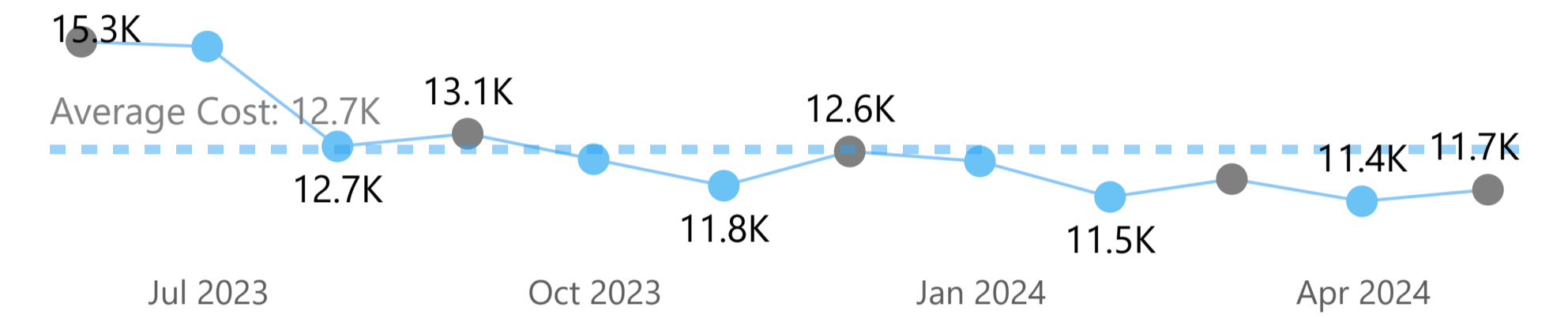
Cost in Previous Month

£11,682

from 01/05/24 to 31/05/2024

EOM forecast is 0.40% vs PM when averaging forecast methods based on ...

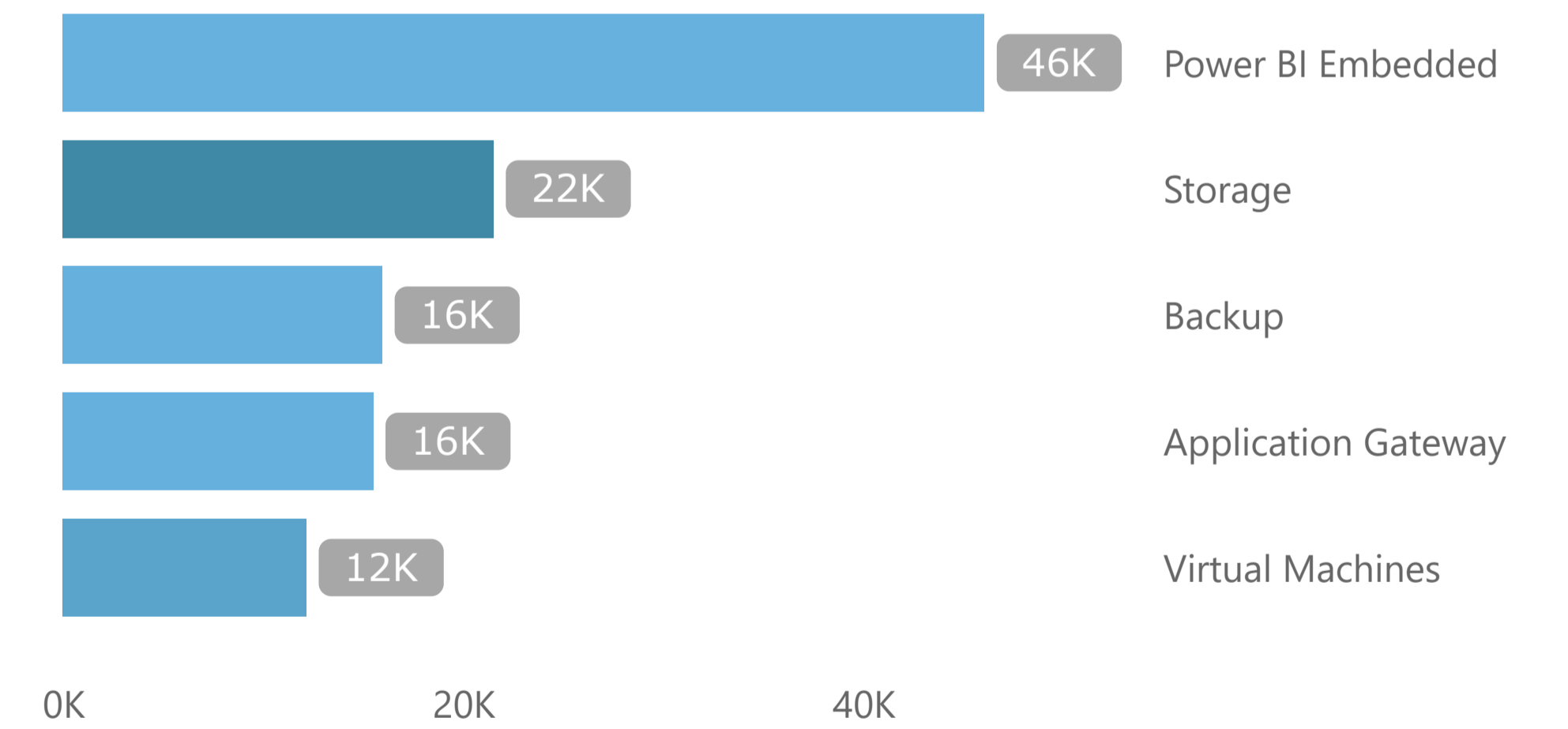
## Monthly Cost Trend



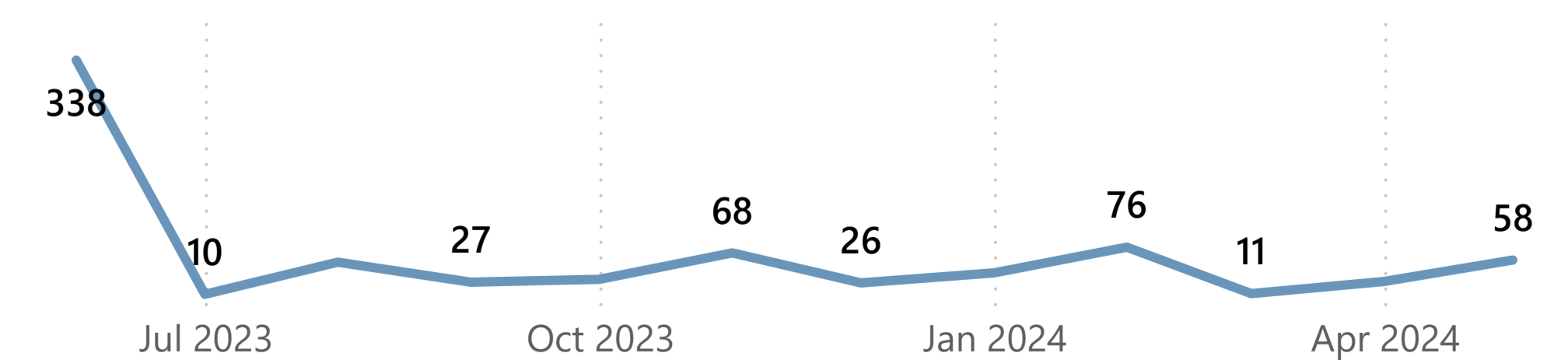
## Run Rate by Subscription (Top 10)

Year	2023					2024					Total			
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		Apr	May	
Subscription   Location   MeterCategory   Resource														
gbl_prodne_services (4d6ec0)	5,901	4,633	3,774	4,222	4,399	4,205	4,543	4,544	4,379	4,323	4,268	4,294	53,485	
gbl_produus_services (4f801d)	4,148	3,852	3,646	3,602	3,322	2,881	2,798	2,788	2,880	3,170	2,957	2,690	38,733	
gbl_testdev_services (4c4b53)	3,346	4,737	3,360	3,299	2,654	2,687	3,176	2,948	2,314	2,333	2,155	2,515	35,523	
gbl_prodexact_services (dae959)	621	636	631	625	663	645	654	652	642	771	732	812	8,085	
gbl_prodsurveil_services (e37215)	568	585	584	566	582	564	581	577	546	571	529	581	6,833	
bdo_testdev_services (1ea6fd)	263	282	273	274	304	283	272	270	269	273	272	277	3,313	
gbl_devexact_services (8d28b2)	245	247	243	240	257	248	242	244	230	246	239	250	2,932	
gbl_qaexact_services (a9ff72)	182	184	180	178	191	185	183	181	171	183	178	186	2,181	
ITEXACT PAYG (a7a078)	58	60	59	58	60	82	176	176	72	75	69	76	1,021	
(4d6ec0)													0	0
(4f801d)													0	0
<b>Total</b>	15,330	15,214	12,750	13,064	12,433	11,781	12,625	12,381	11,504	11,945	11,398	11,682	152,105	

## Top 5 - Total Cost by Meter Category



## Resources Added by Month



# Cost Forecast

An overview of the current spending with projected spend and option to project costs based on cost variation



Year to Date

**£70,057**

Previous Month

**£11,682**

Month to Date

**£11,148**

## Month End Forecast

End-of-month forecast shows a 3.37% variation between straight-line and linear regression methods.  
32 Days in forecast period

## Year End Forecast

End-of-year forecast shows a 9.75% variation between straight-line and linear regression methods.  
7 Months in forecast period

## Linear Regression Month End Forecast

**£11,531**

## Straight Line Month End Forecast

**£11,926**

## Linear Regression Year End Forecast

**£127,325**

## Straight Line Year End Forecast

**£140,380**



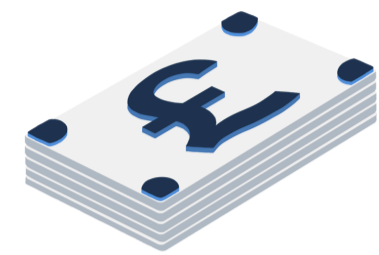
End of Month (EOM) is based on:  
linear regression looking at  
all billing data available (6  
months)

Straight line forecast based  
on the average of the last 30  
days average cost  
(changeable)

End of Year (EOY) is based on:  
linear regression looking at  
all billing data available (12  
months)  
Straight line forecast based  
on the average of the last 3  
months daily average cost

# Overall Cost...

Overview of which services have contributed the highest % of change in cost between the previous month and the month before that



## Cost Comparison of Changes Between 04/2024 and 05/2024

### Cost Changes Contributors (Top Decrease)

Meter Category	Currency	Cost Change PM-PPM (Avg. Day Cost)	% Change PM-PPM (Avg. day cost)	Cost PPM (Total Month Cost)	Cost PM (Total Month Cost)	Cost change to last Previous Month (PM-PPM)
Storage	£	-0.26	↓ -0.4%	1,897	1,952	55
Application Gateway	£	-14.07	↓ -23.7%	1,778	1,401	-377
Automation	£	-0.02	↓ -28.3%	2	1	0
Key Vault	£	-0.32	↓ -98.3%	10	0	-10
<b>Total</b>	<b>£</b>	<b>-14.67</b>	<b>-11.9%</b>	<b>3,687</b>	<b>3,355</b>	<b>-332</b>

### Cost Changes Contributors (Top Increase)

Meter Category	Currency	Cost Change PM-PPM (Avg. Day Cost)	% Change PM-PPM (Avg. day cost)	Cost PPM (Total Month Cost)	Cost PM (Total Month Cost)	Cost change to last Previous Month (PM-PPM)
Power BI Embedded	£	2.50	↑ 2.3%	3,261	3,447	186
Virtual Machines	£	2.35	↑ 10.0%	703	799	96
Virtual Network	£	2.00	↑ 21.9%	273	344	71
Microsoft Defender for Cloud	£	0.93	↑ 5.8%	483	528	45
SQL Database	£	0.88	↑ 4.7%	563	609	46
Azure App Service	£	0.59	↑ 4.0%	442	475	33
Load Balancer	£	0.42	↑ 6.0%	210	230	20
Azure Bastion	£	0.34	↑ 6.4%	159	175	16
Bandwidth	£	0.33	↑ 56.3%	18	28	11
Azure Cognitive Search	£	0.27	↑ 7.5%	110	122	12
Azure Kubernetes Service	£	0.26	↑ 7.2%	109	121	12
Container Registry	£	0.14	↑ 5.7%	73	79	7
Service Bus	£	0.13	↑ 26.3%	15	20	5
<b>Total</b>	<b>£</b>	<b>11.59</b>	<b>4.5%</b>	<b>7,711</b>	<b>8,327</b>	<b>616</b>

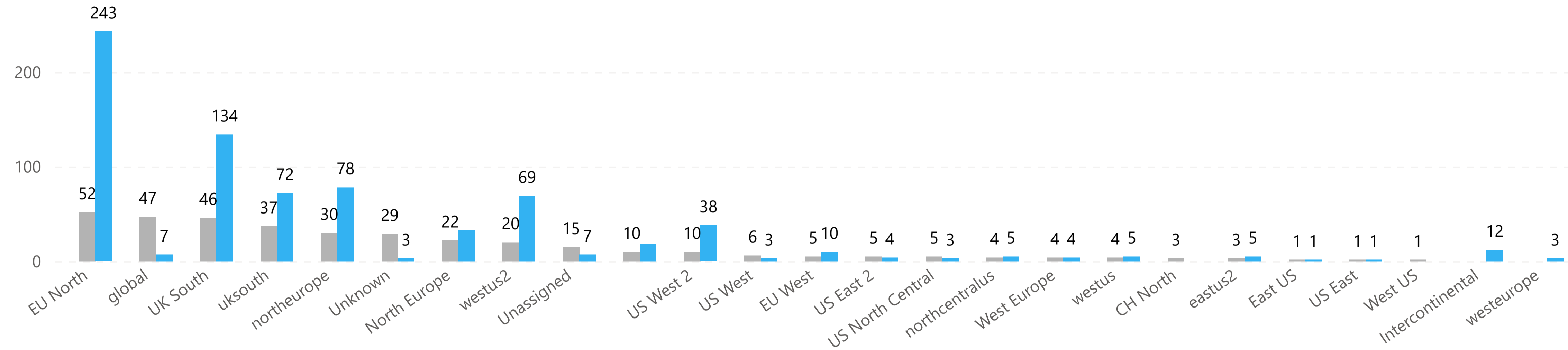
Previous Previous month (PPM) 04/2024 and Previous month (PM) 05/2024

# Azure Tag...

An overview of Azure tagging to help assess tag implementation across the organisation

## Tagged / Untagged by Azure Tag and Location

● Not Tagged ● Tagged



Tagging is used in Azure to classify resources into categories for classification, grouping, billing etc. Low tagging coverage may indicate lower maturity in management of the platform. Moving to targeted tagging could enhance management of the environment.

### Azure Resources

Represents all resources in Azure (All categories) during the billing period



Total Resources in Azure

**749**



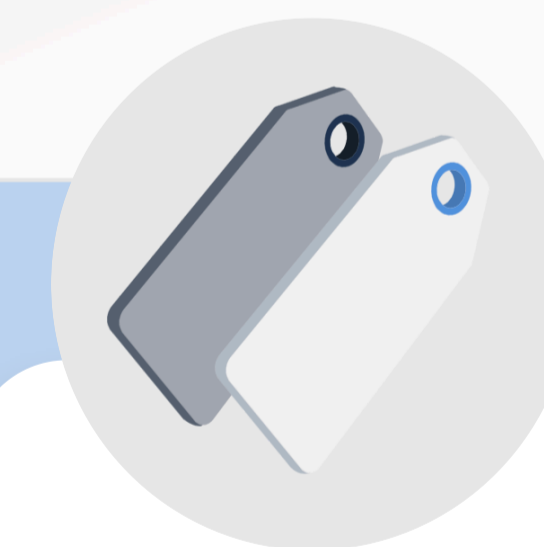
Untagged Resources

**225**



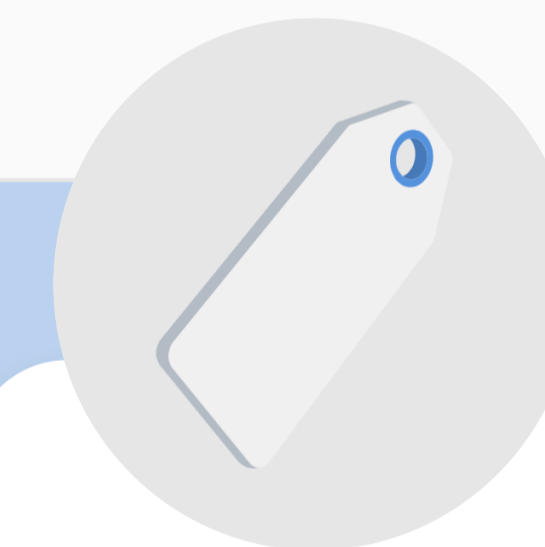
Resources not tagged

**30.04%**



Tagged Resources

**524**



Resources with 1 tag

**7.48%**



# Reserved Instances Overview

Overview of Azure Reserved instances across both EA and CSP environments

## Current Reserved Instances



Active Reservation Orders Last Month

8



VMs Reserved Last Month

17

8 Reservation Orders active in billing data in the previous month with 17 total devices active in those Reservation Orders (RO). A RO can contain a selection of Subscriptions, Resource Groups etc., therefore the number of VMs will generally exceed ROs.

## Recommended Reserved Instances



Low Save Estimate

£500



High Save Estimate

£756

Saves of between £256 and £384 of the monthly VM spend (£621) can be achieved by implementing Reserved Instances (RI). (Average saves of 43.89% to 63.33% on 1 and 3 year RIs respectively)

**Virtual Machine**

(Monthly: £256)  
(Per Year: 3,076)

**SQL and Synapse Reserved Instances**

(Monthly: £0)  
(Per Year: £0)

**DataBrick Reserved Instances**

(Monthly: £0)  
(Per Year: £0)

**Premium Disk Reserved Instances**

(Monthly: £0)  
(Per Year: £0)

**Azure App Services**

(Monthly: £50)  
(Per Year: £602)

**Cosmos DB**

(Monthly: £0)  
(Per Year: £0)

# Azure Databricks

Overview of costs related to Databricks



Databricks Costs (Previous Month)

**£0**

📘 Databrick costs, £0 between 06-2023 and 05-2024



Databricks % of Total Spend (Previous Month)

**0.00%**

📘 Databricks % of total spend, 0.00% between 06-2023 and 05-2024

## Cost by Month

## Cost by meterCategory (Previous Month)

# Azure Kubernetes Services

Overview of costs related to Kubernetes services



Kubernetes Cluster Count

12



Kubernetes Costs (Previous Month)

£3,296

ⓘ Kubernetes costs, £32,767 between 06-2023 and 05-2024

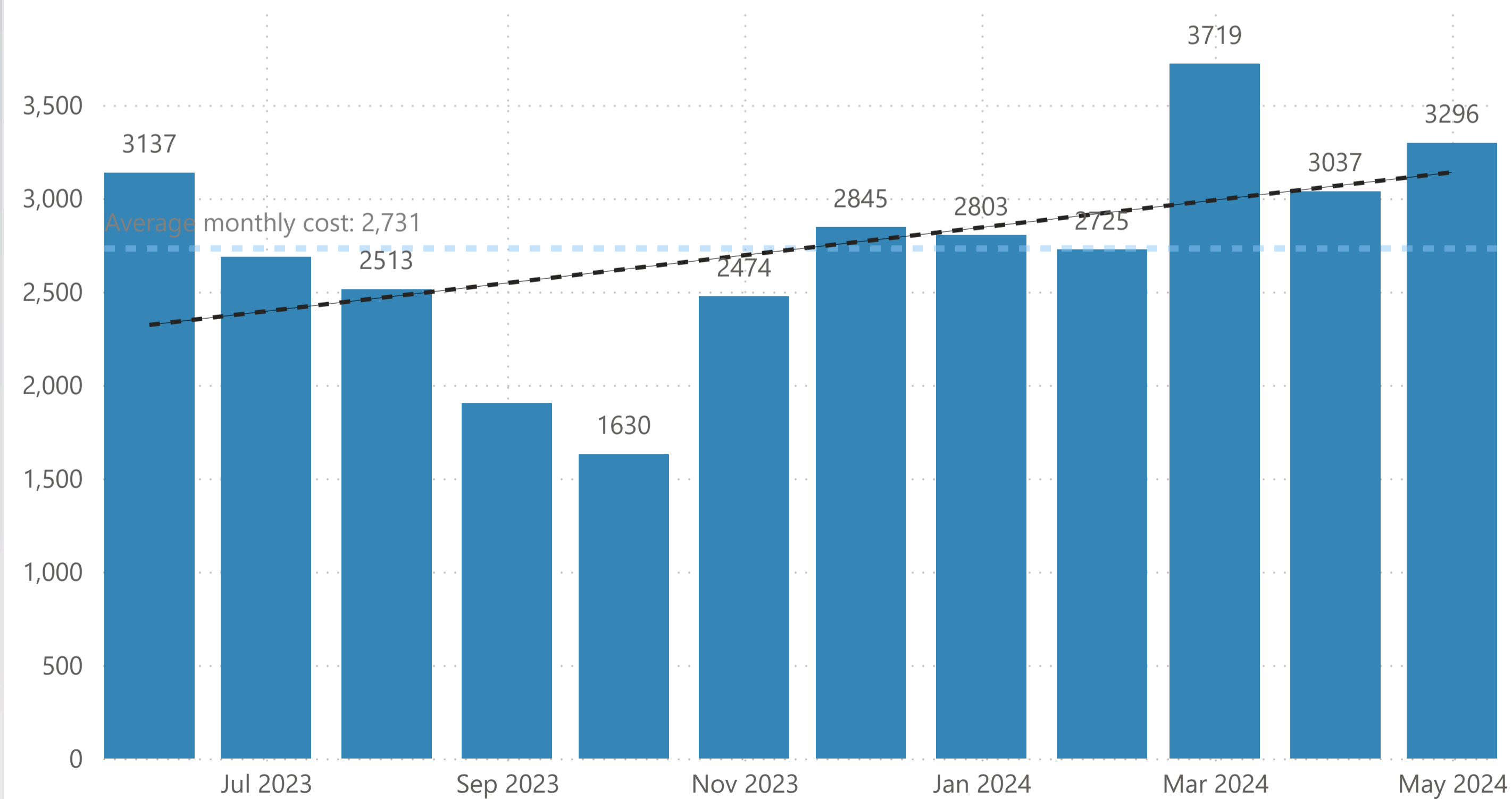


Kubernetes % of Total Spend (Previous Month)

28.22%

ⓘ Kubernetes % of total spend, 21.54% between 06-2023 and 05-2024

## Cost by Month

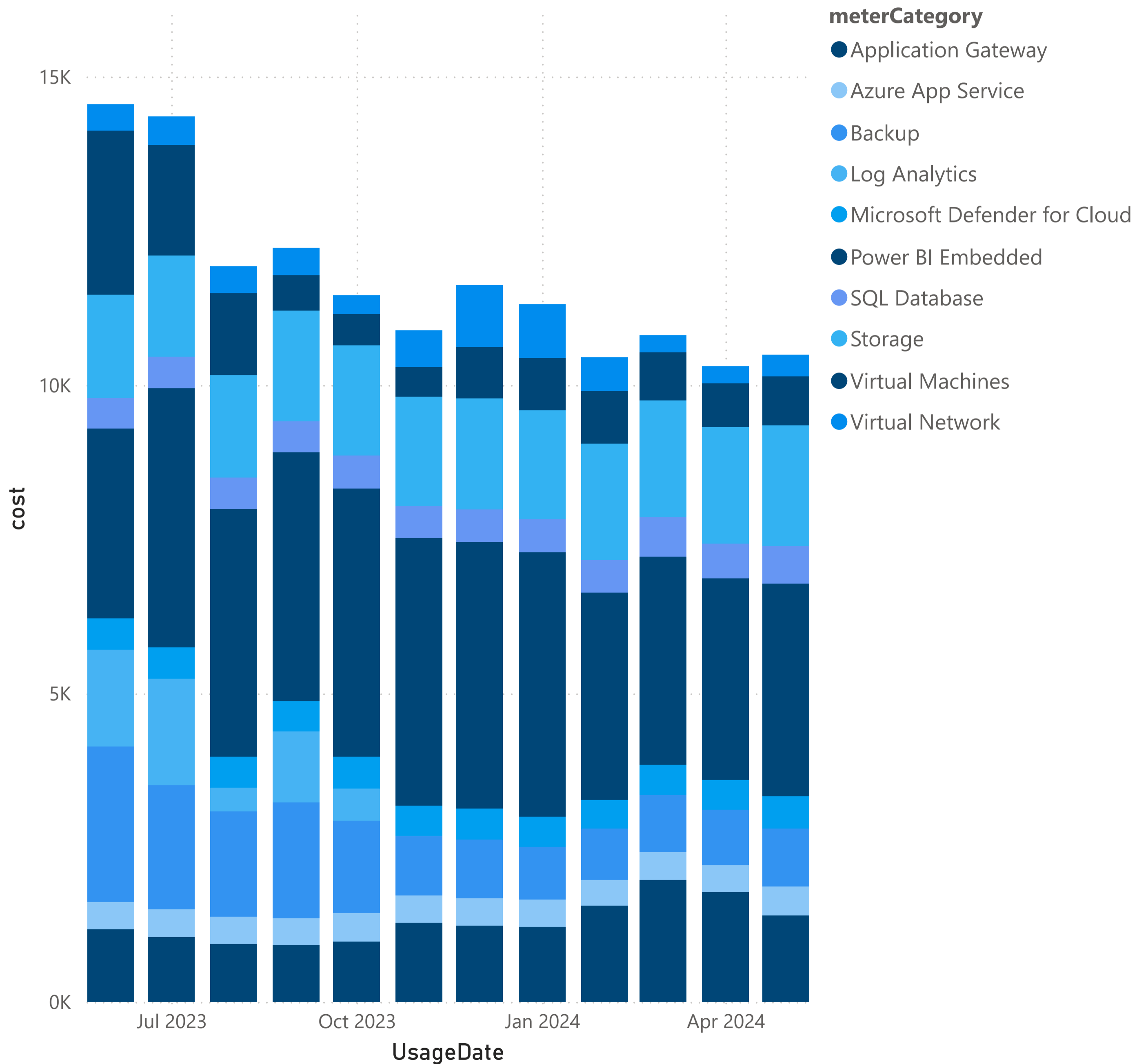


## Cost by meterCategory (Previous Month)

# Azure Services

Cost breakdown of high-level Azure services by meter category

## Top 10 Service Trending



## MeterCategory Costs from 06-2023 to 05-2024

meterCategory	Cost	%Grand Total Cost	Cost Trend
Power BI Embedded	46,061	30.3%	
Storage	21,526	14.2%	
Backup	15,972	10.5%	
Application Gateway	15,515	10.2%	
Virtual Machines	12,177	8.0%	
SQL Database	6,469	4.3%	
Microsoft Defender for Cloud	5,991	3.9%	
Virtual Network	5,954	3.9%	
Azure App Service	5,358	3.5%	
Log Analytics	5,348	3.5%	
Load Balancer	2,714	1.8%	
Azure Bastion	2,057	1.4%	
Azure Kubernetes Service	1,420	0.9%	
API Management	1,382	0.9%	
Virtual Machines Licenses	1,045	0.7%	
Azure Cognitive Search	982	0.6%	
Microsoft Entra Domain Services	693	0.5%	
Container Registry	639	0.4%	
Redis Cache	392	0.3%	
Service Bus	184	0.1%	
Bandwidth	93	0.1%	
Sentinel	67	0.0%	
Azure Monitor	31	0.0%	
Cognitive Services	17	0.0%	
Key Vault	12	0.0%	
<b>Total</b>	<b>152,105</b>	<b>100.0%</b>	

# Azure Secure Score

High level overview of the Azure Secure score with a view of resource health breakdown by Domain



Secure Score

**57.29%**

Top improvement category is:

Remediate vulnerabilities

(Out of a total of 15 controls)

## Secure Control

Secure Control Name	Current Score	Max. Score	Secure Score %	Weight
Enable MFA	140	140	100.0%	14
Secure management ports	56	64	87.5%	31
Encrypt data in transit	37	44	85.2%	61
Restrict unauthorized network access	32	44	72.7%	60
Manage access and permissions	36	56	64.6%	31
Enable encryption at rest	19	48	38.9%	49
Enable endpoint protection	5	16	33.8%	28
Apply adaptive application control	6	24	25.4%	29
Remediate security configurations	6	36	15.9%	36
Enable auditing and logging	1	11	13.4%	38
Protect applications against DDoS attacks	0	10	4.0%	11
Remediate vulnerabilities	1	54	2.7%	39
Apply system updates	0	48	0.0%	32
Enable enhanced security features	0	0	0.0%	21
Implement security best practices	0	0	0.0%	104
<b>Total</b>	<b>341</b>	<b>595</b>	<b>57.3%</b>	<b>584</b>

## Healthy / Unhealthy Score By Subscription Name

