

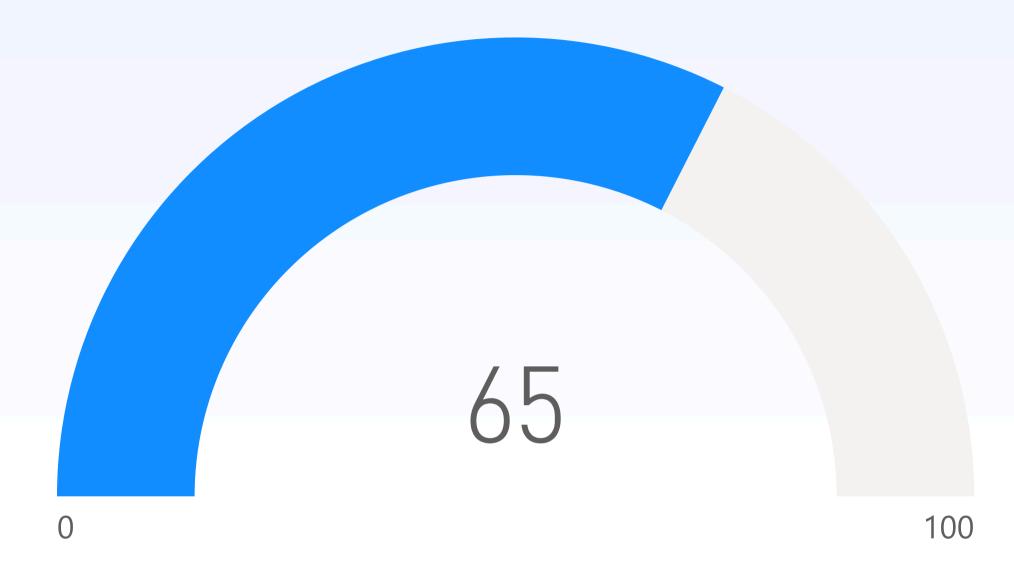
# Azure Advisor Analyzer

## CONTOSO



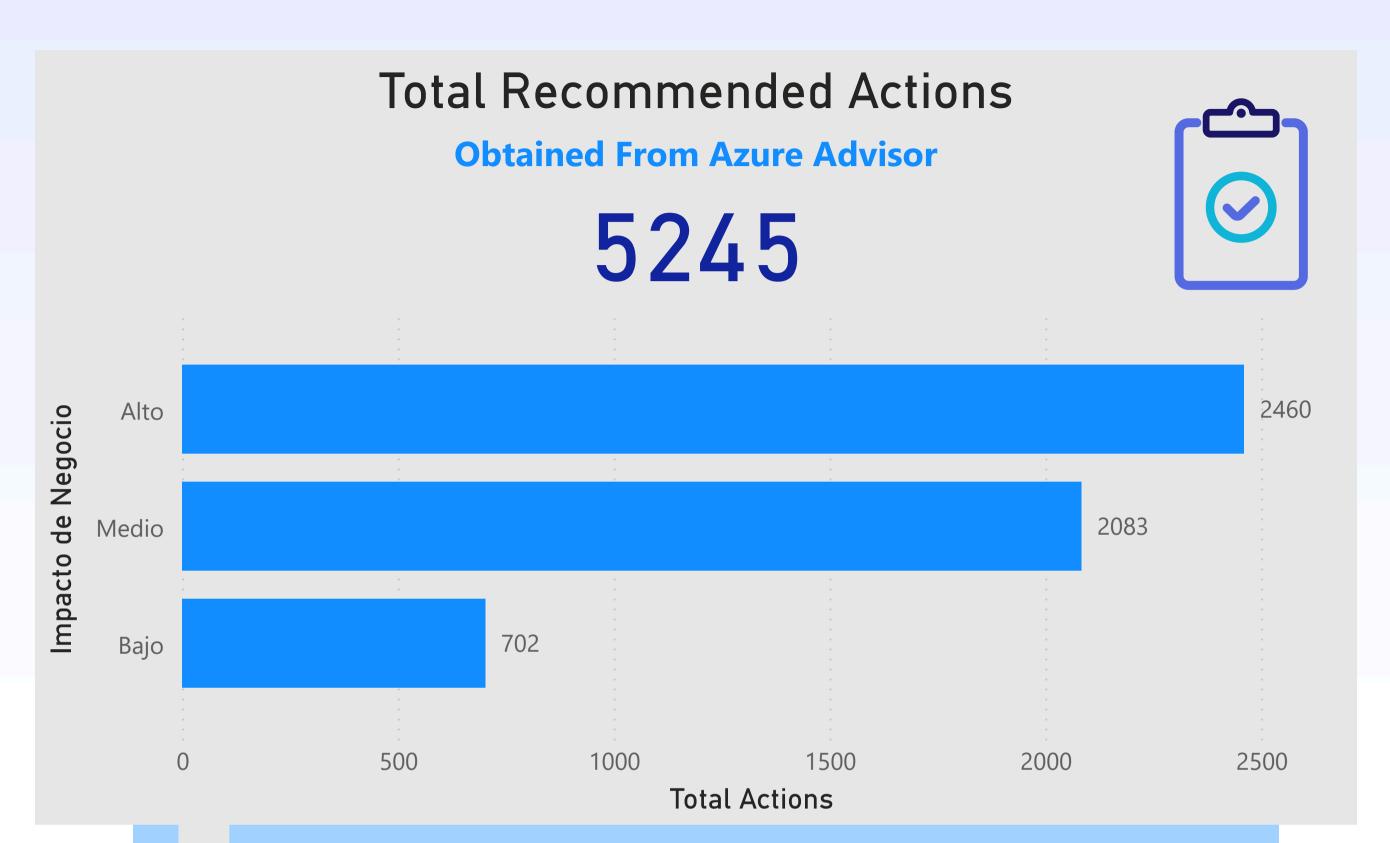
## **SUMMARY OF FINDINGS**

#### Azure Advisor Score



Azure Advisor Score is a metric that evaluates the overall optimization status of resources in Azure, based on five key categories: reliability, security, operational excellence, performance, and cost optimization.

It provides **personalized recommendations** to improve each area, helping to **maximize efficiency** and **reduce risks** in the **cloud environment**.



### Actions In Scope

**Selected By Business Impact** 

4318



#### Remediation

No increase in Billing

2728

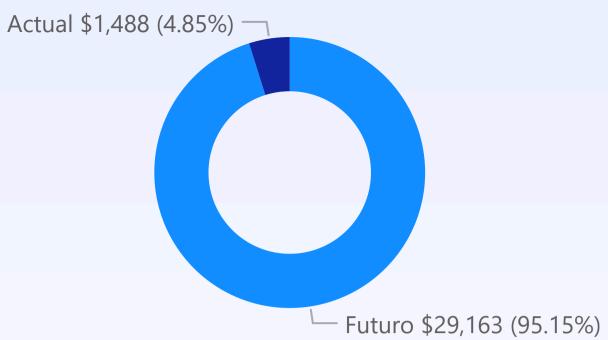




Estimated Monthly Optimization

\$30,651

83 **Total Actions**  30.8 **Working Hours** 



Recommendation	Solution On Azure	Resource Type	Resource Name	Working Hours	Monthly Savings
Consider virtual machine reserved instance to save over your on-demand costs	Virtual Machines	Subscription	resource_name_1276	0.5	\$16,719
Consider virtual machine reserved instance to save over your on-demand costs	Virtual Machines	Subscription	resource_name_1345	0.5	\$7,472
Consider App Service reserved instance to save over your on- demand costs	App Service	Subscription	resource_name_1276	0.4	\$2,462
Consider Azure Synapse Analytics (formerly SQL DW) reserved instance to save over your pay-as-you-go costs	Azure Synapse Analytics	Subscription	resource_name_1345	1.0	\$713
Consider Database for PostgreSQL reserved instance to save over your pay-as-you-go costs	Azure Database for PostgreSQL	Subscription	resource_name_1276	0.4	\$676
Consider virtual machine reserved instance to save over your on-demand costs	Virtual Machines	Subscription	resource_name_008	0.5	\$513
Consider virtual machine reserved instance to save over your on-demand costs	Virtual Machines	Subscription	resource_name_072	0.5	\$428
Right-size or shutdown underutilized virtual machines	Virtual Machines	Virtual machine	resource_name_1356	0.5	\$294
Consider Database for MySQL reserved instance to save over your pay-as-you-go costs	Azure Database for MySQL	Subscription	resource_name_1276	0.4	\$179
Right-size or shutdown underutilized virtual machines	Virtual Machines	Virtual machine	resource_name_1347	0.5	\$175
Right-size or shutdown underutilized virtual machines	Virtual Machines	Virtual machine	resource_name_1346	0.5	\$155
Right-size or shutdown underutilized virtual machines	Virtual Machines	Virtual machine	resource_name_025	0.5	\$149
Right-size or shutdown underutilized virtual machines	Virtual Machines	Virtual machine	resource_name_022	0.5	\$138
Right-size or shutdown underutilized virtual machines	Virtual Machines	Virtual machine	resource name 1357	0.5	\$79
Total				30.8	\$30,651

Actions To Take

3637

\$63,900 Monthly Investment

ncremento	en	factura	ción

No Sí

Impacto de Negocio						
	Alto	Вајо	Medio			

Resource Type	Solution On Azure	Recommendation	Resource Name	Working Hours	Monthly Investment	
Virtual machine	Microsoft Defender for Cloud Machines should have a vulnerability	resource_name_001	0.5	\$50		
		assessment solution	resource_name_011	0.5	\$50	
		resc	resource_name_012	0.5	\$50	
			resource_name_014	0.5	\$50	
			resource_name_015	0.5	\$50	
			resource_name_017	0.5	\$50	
		resource_na	resource_name_020	0.5	\$50	
			resource_name_022	0.5	\$50	
			resource_name_025	0.5	\$50	
			resource_name_028	0.5	\$50	
			resource_name_029	0.5	\$50	
				resource_name_030	0.5	\$50
			resource_name_031	0.5	\$50	
			resource_name_032	0.5	\$50	
			resource_name_033	0.5	\$50	
			resource_name_034	0.5	\$50	
			resource_name_035	0.5	\$50	
			resource_name_036	0.5	\$50	
			resource_name_037	0.5	\$50	
			resource_name_038	0.5	\$50	
			resource_name_039	0.5	\$50	
			resource_name_040	0.5	\$50	



Actions To Take

1153

\$43,705
Monthly Investment

#### Incremento en facturación

No Sí

Impacto de Negocio						
	Alto	Вајо	Medio			

Resource Type	Solution On Azure	Recommendation	Resource Name	Working Hours	Monthly Investment
Virtual machine Virtual Machine	Virtual Machines	Migrate workload to D-series or better virtual machine	resource_name_058	0.5	\$138
			resource_name_059	0.5	\$138
			resource_name_060	0.5	\$138
			resource_name_061	0.5	\$138
		_	resource_name_062	0.5	\$138
			resource_name_063	0.5	\$138
		re	resource_name_064	0.5	\$138
		resource_name_065	0.5	\$138	
		resource_name_066	0.5	\$138	
			resource_name_067	0.5	\$138
			resource_name_069	0.5	\$138
			resource_name_070	0.5	\$138
			resource_name_071	0.5	\$138
			resource_name_073	0.5	\$138
			resource_name_074	0.5	\$138
			resource_name_075	0.5	\$138
		resource_name_076	0.5	\$138	
		resource_name_077	0.5	\$138	
		resource_name_078	0.5	\$138	
			resource_name_079	0.5	\$138
			resource_name_080	0.5	\$138
			resource_name_081	0.5	\$138



## OPTIMIZATION IN OPERATIONAL EXCELLENCE

Actions To Take

372

\$2,702 Monthly Investment

Incre	mento en	facturación	

No Sí

Impacto de Negocio						
Alto	Вајо	Medio				

Resource Type	Solution On Azure	Recommendation	Resource Name	Working Hours	Monthly Investment
Front Door Profile	Azure Front Door	Migrate Azure CDN Standard from Microsoft	resource_name_1102	1.5	\$150
		(Classic) to Azure Front Door	resource_name_1150	1.5	\$150
		Standard/Premium tier	resource_name_1176	1.5	\$150
			resource_name_1204	1.5	\$150
			resource_name_1209	1.5	\$150
			resource_name_1266	1.5	\$150
Virtual network gateway	Azure Monitor	Configure Connection Monitor for	resource_name_1077	0.5	\$142
ExpressRoute Gateway	ExpressRoute Gateway	resource_name_1139	0.5	\$142	
			resource_name_1178	0.5	\$142
			resource_name_1274	0.5	\$142
			resource_name_1281	0.5	\$142
			resource_name_137	0.5	\$142
SQL virtual machine	Azure Monitor	Install SQL best practices assessment on your	resource_name_012	0.3	\$91
		SQL VM	resource_name_1359	0.3	\$91
			resource_name_1363	0.3	\$91
			resource_name_1367	0.3	\$91
			resource_name_1408	0.3	\$91
ExpressRoute circuit	Azure Monitor	Configure Connection Monitor for	resource_name_1188	0.5	\$142
		ExpressRoute	resource_name_1192	0.5	\$142
			resource_name_210	0.5	\$142
Subscription	Azure Virtual Network Manager	Subscription with more than 10 VNets should be managed using AVNM	resource_name_1276	0.2	\$73
	<u> </u>		0.0.0		<u> </u>



### LISTING OF ACTIONS IN SCOPE

Recomm	endation	Average of Risk
	der App Service reserved instance to save over your on-demand costs	10
	der Azure Synapse Analytics (formerly SQL DW) reserved instance to save over pay-as-you-go costs	10
⊕ Cons costs	der Database for MySQL reserved instance to save over your pay-as-you-go	10
⊕ Cons go co	der Database for PostgreSQL reserved instance to save over your pay-as-you- sts	10
± Cons	der virtual machine reserved instance to save over your on-demand costs	10
⊕ Enab	e Azure backup for SQL on your virtual machines	10
⊕ Enab	e Cross Region Restore for your recovery Services Vault	10
<b>⊞</b> Right	-size or shutdown underutilized virtual machines	10
	e Trusted Launch foundational excellence, and modern security for Existing ration 2 VM(s)	5
± Ensur	e Geo-replication is enabled for resilience	5
⊞ Migra	ate workload to D-series or better virtual machine	5
⊕ Use F	remium tier for critical production workloads	5
⊞ APIN	lanagement calls to API backends should be authenticated	4
± APIN	lanagement minimum API version should be set to 2019-12-01 or higher	4
⊞ APIN	lanagement services should use a virtual network	4
± Author	entication to Linux machines should require SSH keys	4
	Database for PostgreSQL should have an Azure Active Directory administrator sioned	4
± Azure	DDoS Protection Standard should be enabled	4
± Azure	Key Vaults should use private link	4
⊕ Azure enab	e MySQL flexible server should have Azure Active Directory Only Authentication ed	4
⊕ Azure enab	e SQL Database should have Azure Active Directory Only Authentication ed	4
± Azure	SQL Managed Instance authentication mode should be Azure Active	4

#### Total Recommended Actions

**Actions In Scope** 

4318



#### Remediation

No increase in Billing

2728



#### **Optimizations**

With billing increase

1590



#### Why were these actions chosen?

In Azure Advisor, recommendations are prioritized based on their **impact** on improving the environment, with greater emphasis placed on those classified as **high impact**. These recommendations have the potential to generate significant changes in critical areas, such as improving security, optimizing costs, or ensuring the reliability of services.



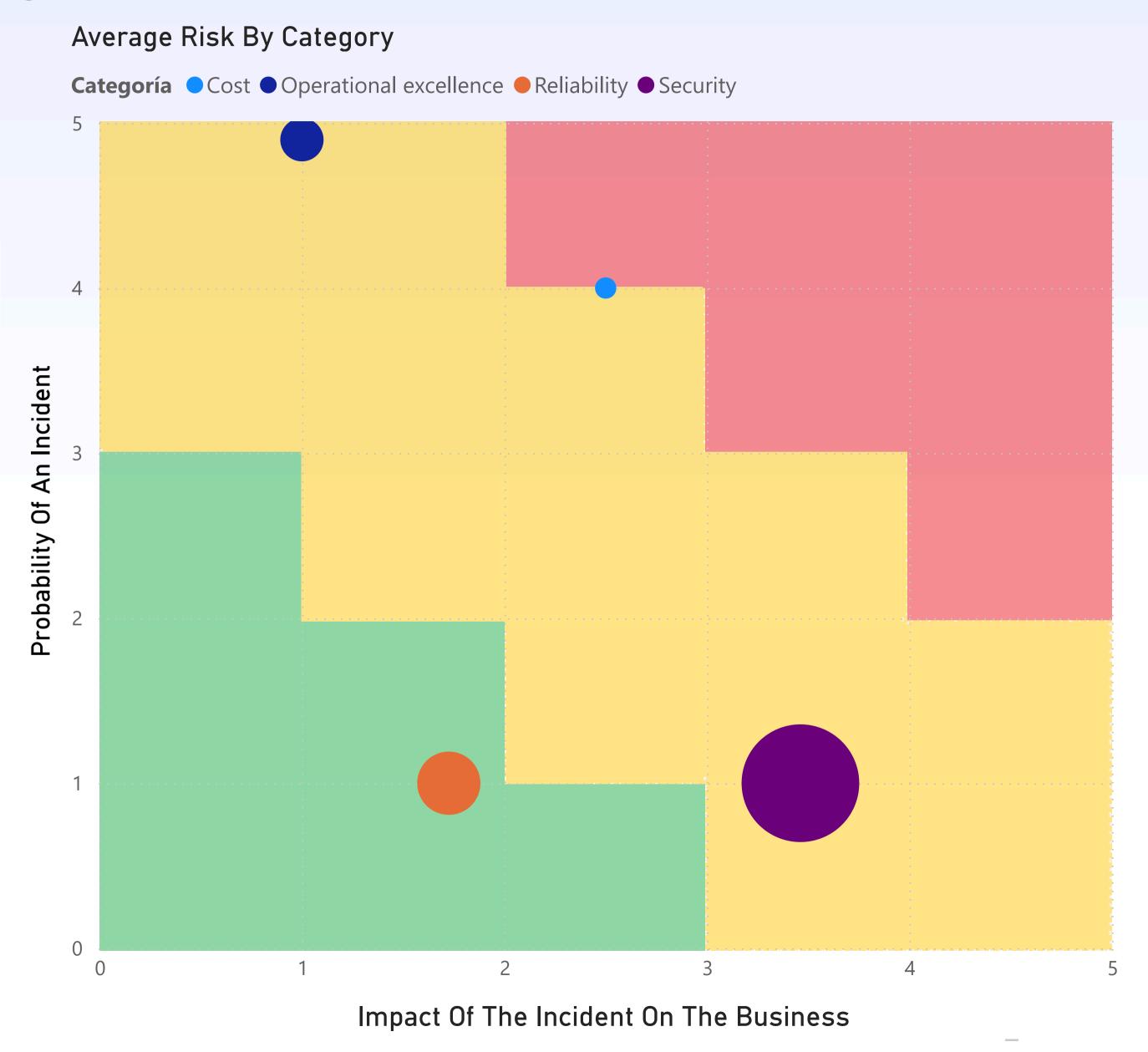
## **REMEDIATION (No Impact On Billing)**

Actions To Take

2728

1008.4
Working Hours

Re	ecommendation	Average of Risk ▼
+	Consider App Service reserved instance to save over your on-demand costs	10
+	Consider Azure Synapse Analytics (formerly SQL DW) reserved instance to save over your pay-as-you-go costs	10
+	Consider Database for MySQL reserved instance to save over your pay-as-you-go costs	10
+	Consider Database for PostgreSQL reserved instance to save over your pay-as-you-go costs	10
+	Consider virtual machine reserved instance to save over your on-demand costs	10
+	Right-size or shutdown underutilized virtual machines	10
+	Enable Trusted Launch foundational excellence, and modern security for Existing Generation 2 VM(s)	5
+	API Management calls to API backends should be authenticated	4
+	API Management minimum API version should be set to 2019-12-01 or higher	4
+	Authentication to Linux machines should require SSH keys	4
+	Azure Database for PostgreSQL should have an Azure Active Directory administrator provisioned	4
+	Azure MySQL flexible server should have Azure Active Directory Only Authentication enabled	4
+	Azure SQL Database should have Azure Active Directory	4



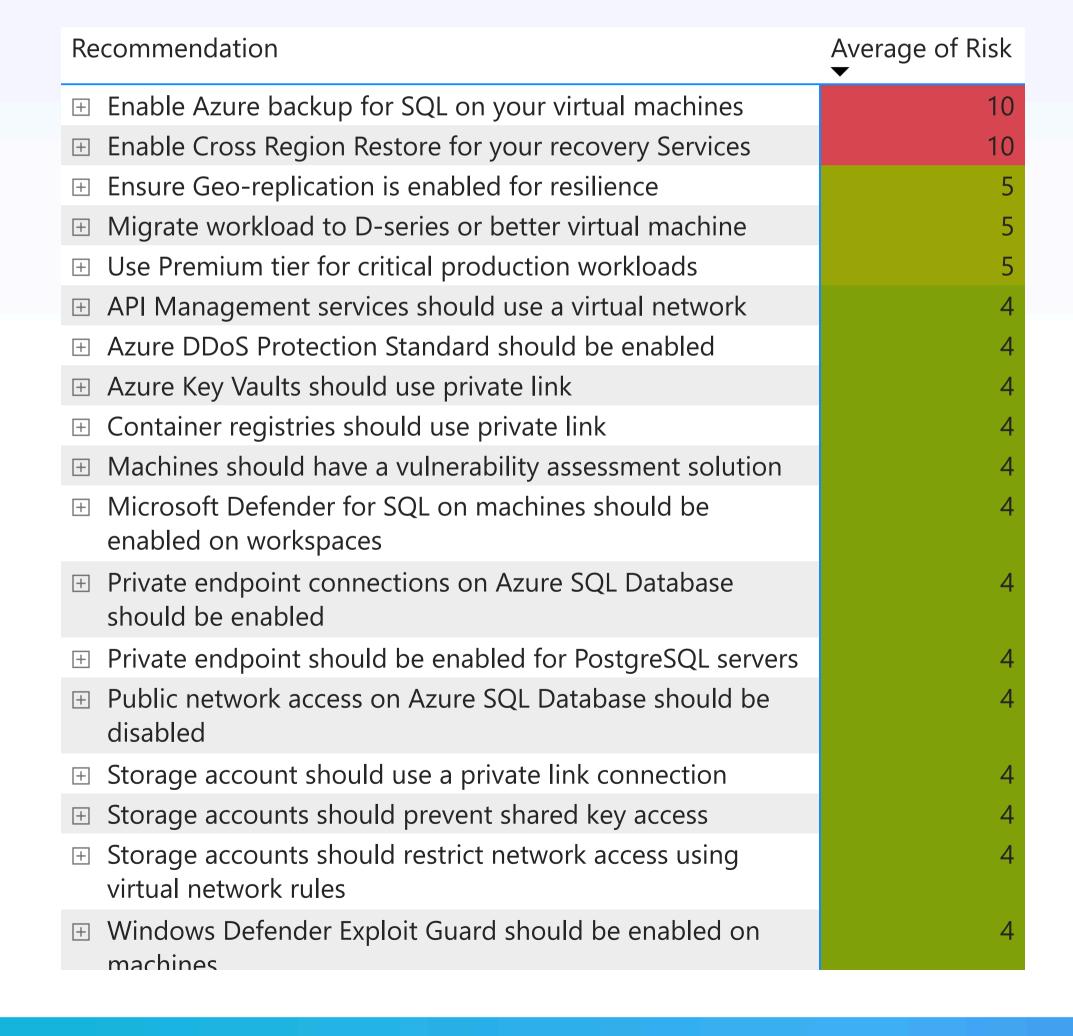


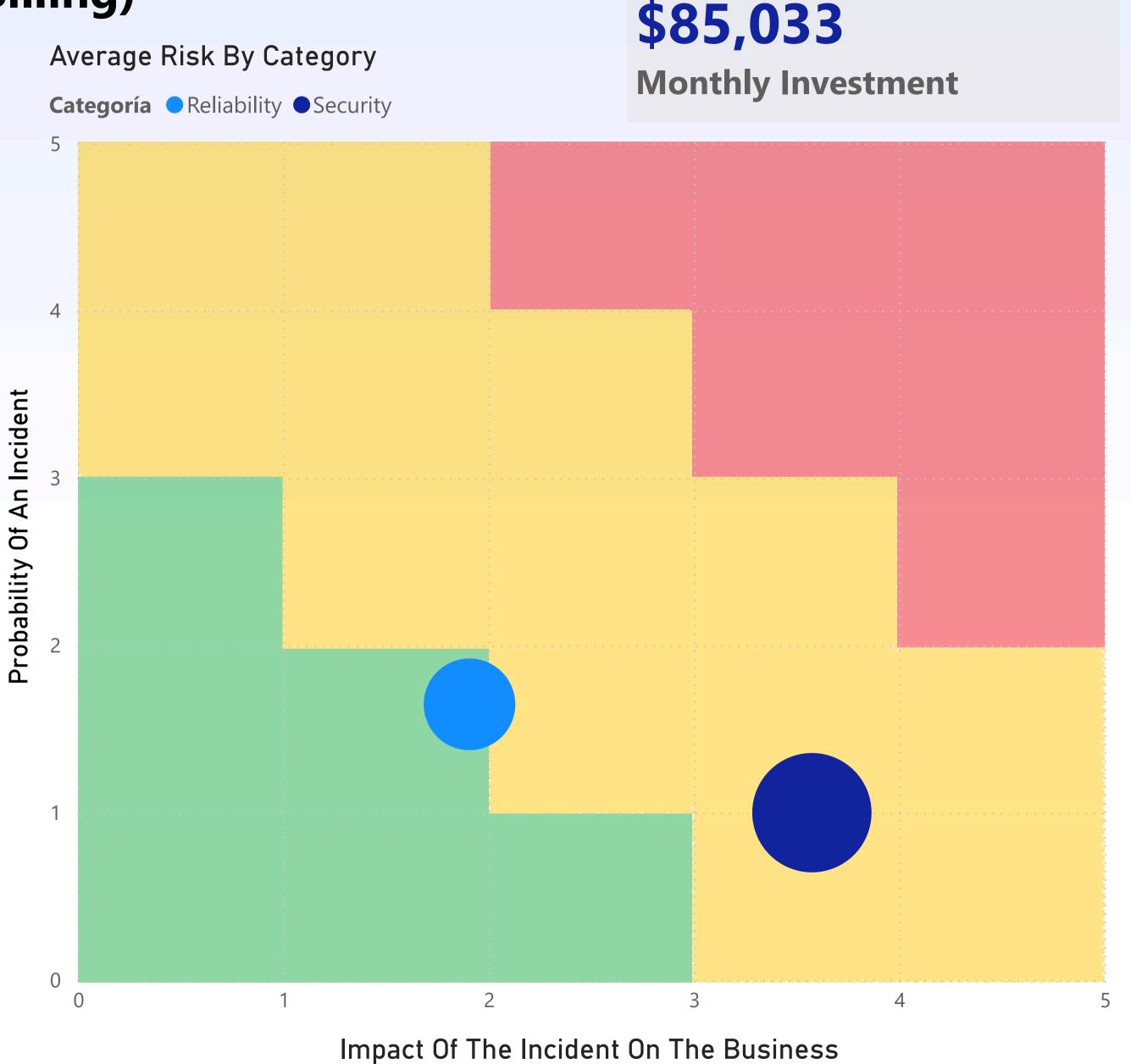
## **OPTIMIZATIONS (With Increase in Billing)**

**Actions To Take** 

1590

**786.9**Working Hours







## **PLAN (Actions In Scope)**

#### Remediation



2728

1008.4

Working Hours

1011

1-Hour Sessions

#### **Optimizations**



**1590** 

786.9

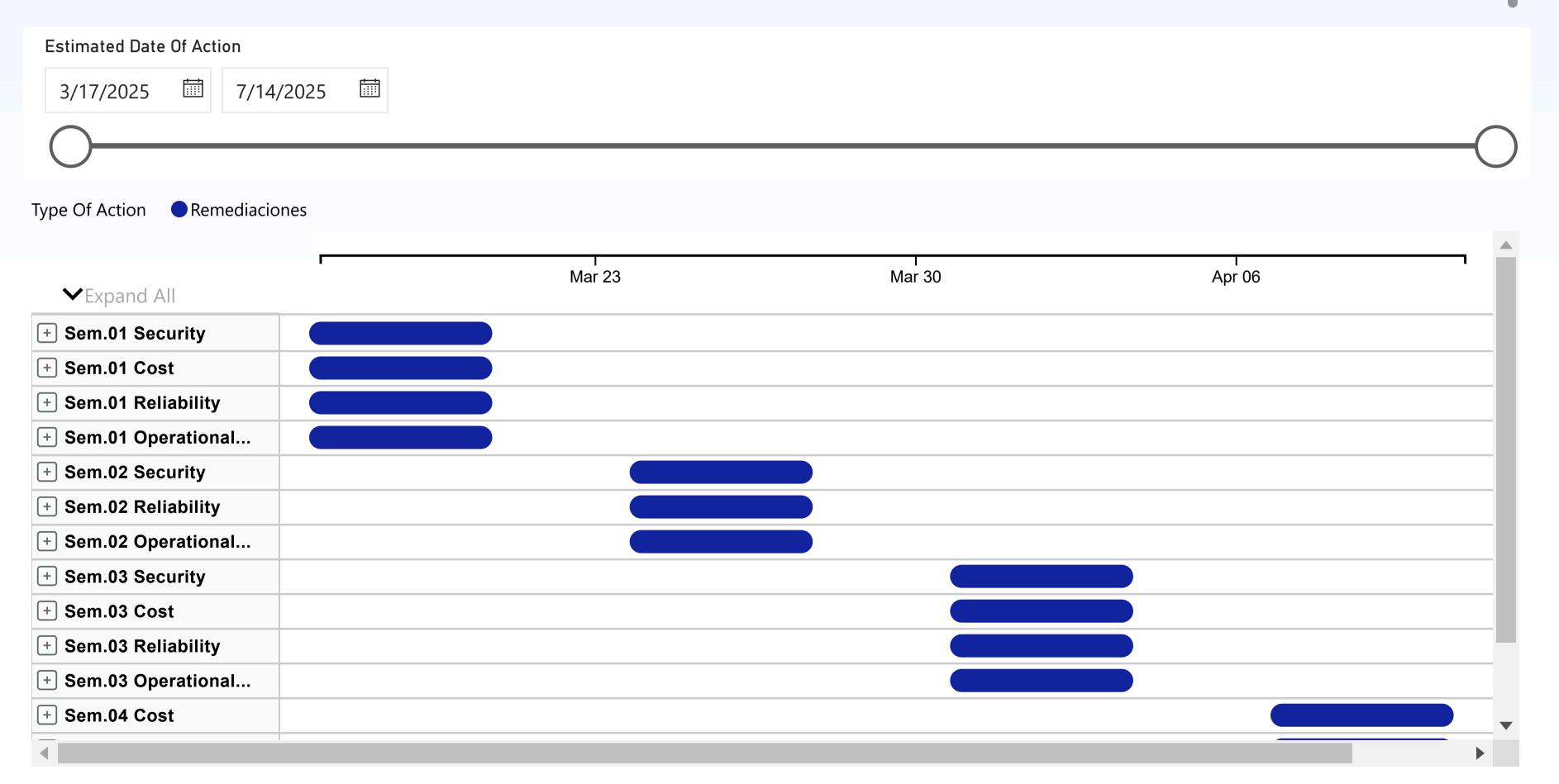
Working Hours

788

1-Hour Sessions

#### Requirements for the sessions:

- Access to the internet and the Azure Portal site (www.portal.azure.com).
- A Microsoft Azure account with permissions as Subscription Reader, Subscription Contributor, or Subscription Owner.
- A person responsible for Azure Infrastructure Management.
- Access to a browser compatible with Power BI (Microsoft Edge, Google Chrome, Apple Safari, Mozilla Firefox).

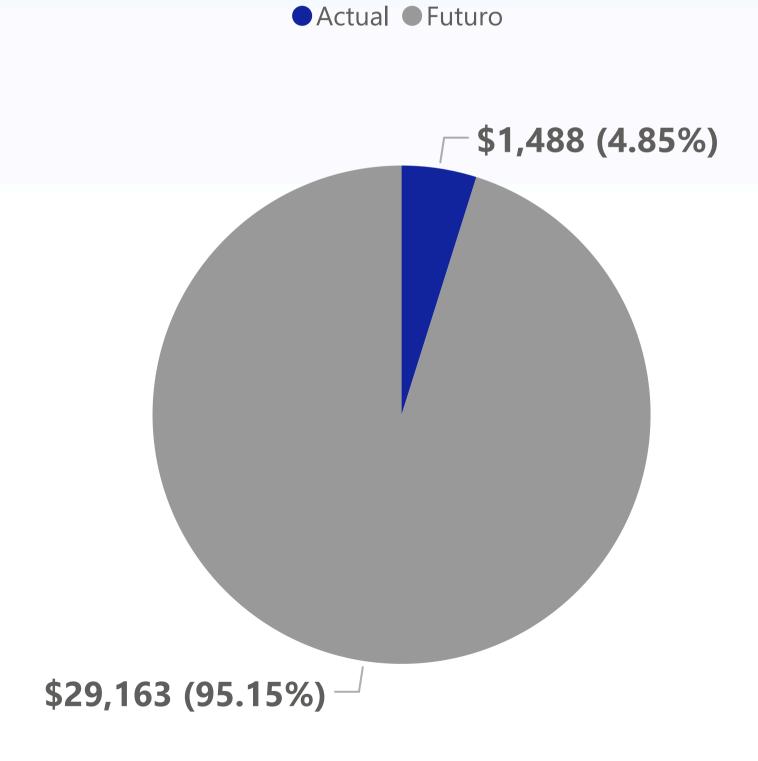


If started on Monday, March 17, 2025, the project would be completed around Friday, July 18, 2025. Assuming 100 hours of work per week.

\$30,651

Monthly Savings

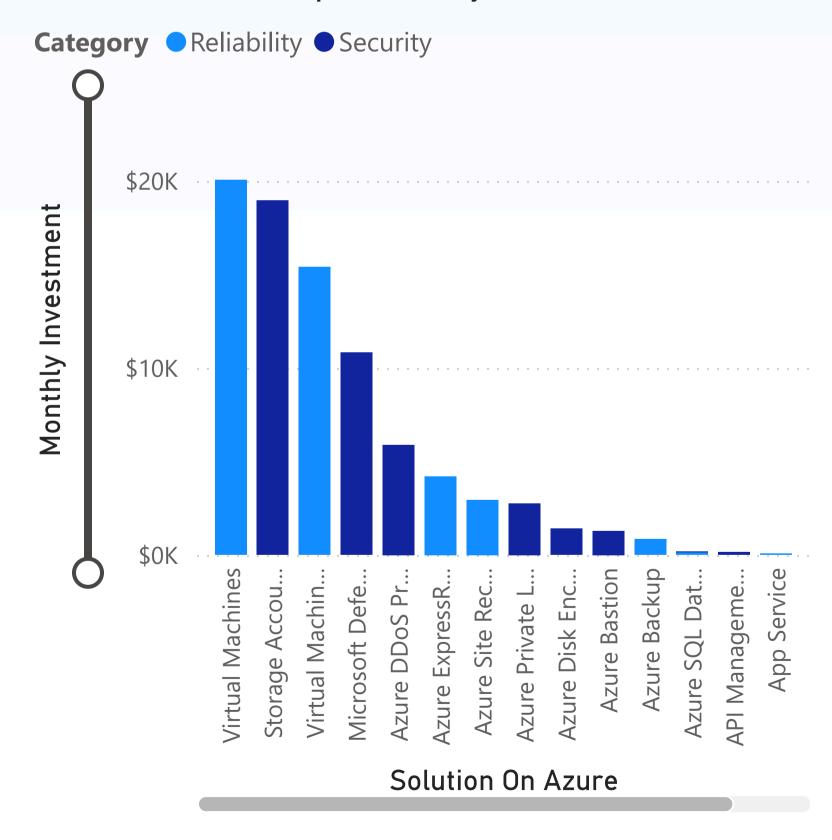
Sources Of Optimization



\$85,033

Monthly Investment

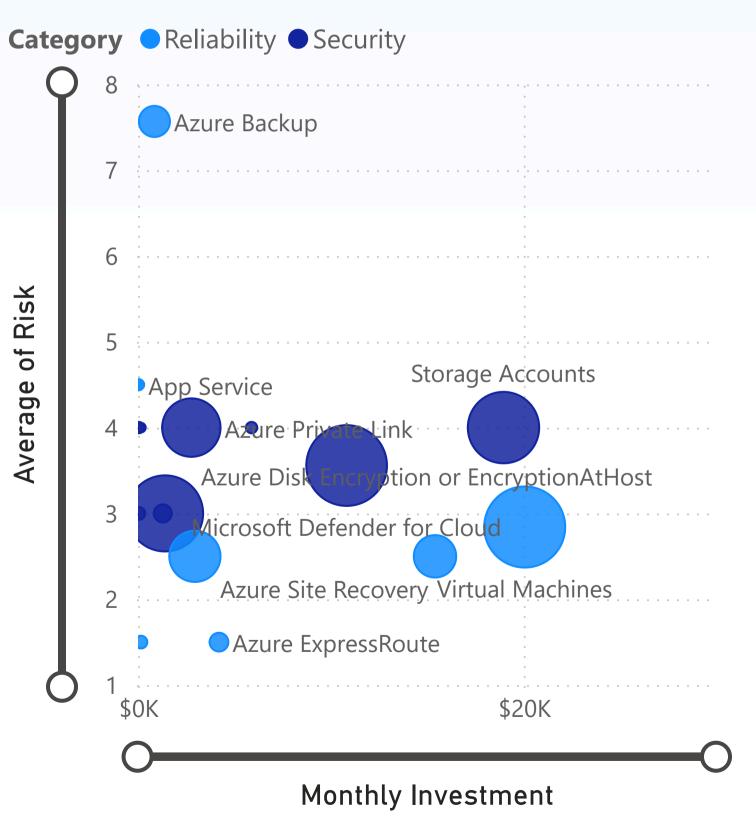
Investment In Complementary Services



\$0

Monthly Net Savings

#### Risk Mapping And Investment



# CONCLUSIONS

This report summarizes the main areas of detected optimization, highlighting their potential impact on improving operational efficiency and generating significant economic savings.

#### **Potential Optimization:**

- 1. Economic optimization of **30,651 USD** per month pending validation.
- 2. Below is a summary of key tasks, essential for strategic implementation and maximizing organizational benefits (visible through the increase in the Azure Advisor Score, currently at **65%**):

Category	Total Actions	Monthly Investment	Working Hours
Reliability	1067	\$43,691	547.3
Security	3030	\$41,342	1138.6
Operational excellence	197	\$0	97.3
Total	4294	\$85,033	1783.1

Índice	Week Number	Session Number	Category	Business Impact	Recommendation	Resource Type
1	1	1	Security	Medium	Guest Configuration extension should be installed on machines	Virtual machine
2	1	1	Security	High	Machines should be configured to periodically check for missing system updates	Virtual machine
3	1	1	Security	Medium	Virtual machines and virtual machine scale sets should have encryption at host enabled	Virtual machine
4	1	2	Security	Medium	Guest Configuration extension should be installed on machines	Virtual machine
5	1	2	Security	Medium	Virtual machines and virtual machine scale sets should have encryption at host enabled	Virtual machine
6	1	2	Security	Medium	Diagnostic logs in App Service should be enabled	App service
7	1	2	Security	Medium	Managed identity should be used in web apps	App service
8	1	3	Security	High	TLS should be updated to the latest version for web apps	App service
9	1	3	Security	Medium	Storage account public access should be disallowed	Storage Account
10	1	3	Security	Medium	Guest Configuration extension should be installed on machines	Virtual machine
11	1	4	Security	Medium	Virtual machines and virtual machine scale sets should have encryption at host enabled	Virtual machine
12	1	4	Security	Medium	Guest Configuration extension should be installed on machines	Virtual machine
13	1	4	Security	Medium	Virtual machines and virtual machine scale sets should have encryption at host enabled	Virtual machine
14	1	5	Cost	High	Consider virtual machine reserved instance to save over your on-demand costs	Subscription
16	1	5	Security	Medium	Diagnostic logs in App Service should be enabled	App service
17	1	6	Security	Medium	Managed identity should be used in web apps	App service
18	1	6	Security	High	TLS should be updated to the latest version for web apps	App service
19	1	6	Security	Medium	Guest Configuration extension should be installed on machines	Virtual machine
20	1	7	Security	High	Machines should be configured to periodically check for missing system updates	Virtual machine
21	1	7	Security	Medium	Virtual machines and virtual machine scale sets should have encryption at host enabled	Virtual machine
22	1	7	Security	Medium	Guest Configuration extension should be installed on machines	Virtual machine
23	1	7	Security	High	Machines should be configured to periodically check for missing system updates	Virtual machine
24	1	8	Security	Medium	Virtual machines and virtual machine scale sets should have encryption at host enabled	Virtual machine
25	1	8	Security	Medium	API Management minimum API version should be set to 2019-12-01 or higher	Api Management
26	1	8	Operational excellence	High	Enable Trusted Launch foundational excellence, and modern security for Existing Generation 2 VM(s)	Virtual machine
27	1	9	Security	Medium	Guest Configuration extension should be installed on machines	Virtual machine
28	1	9	Security	High	Machines should be configured to periodically check for missing system updates	Virtual machine