



Tuesday, February 16, 2021

C-SMART

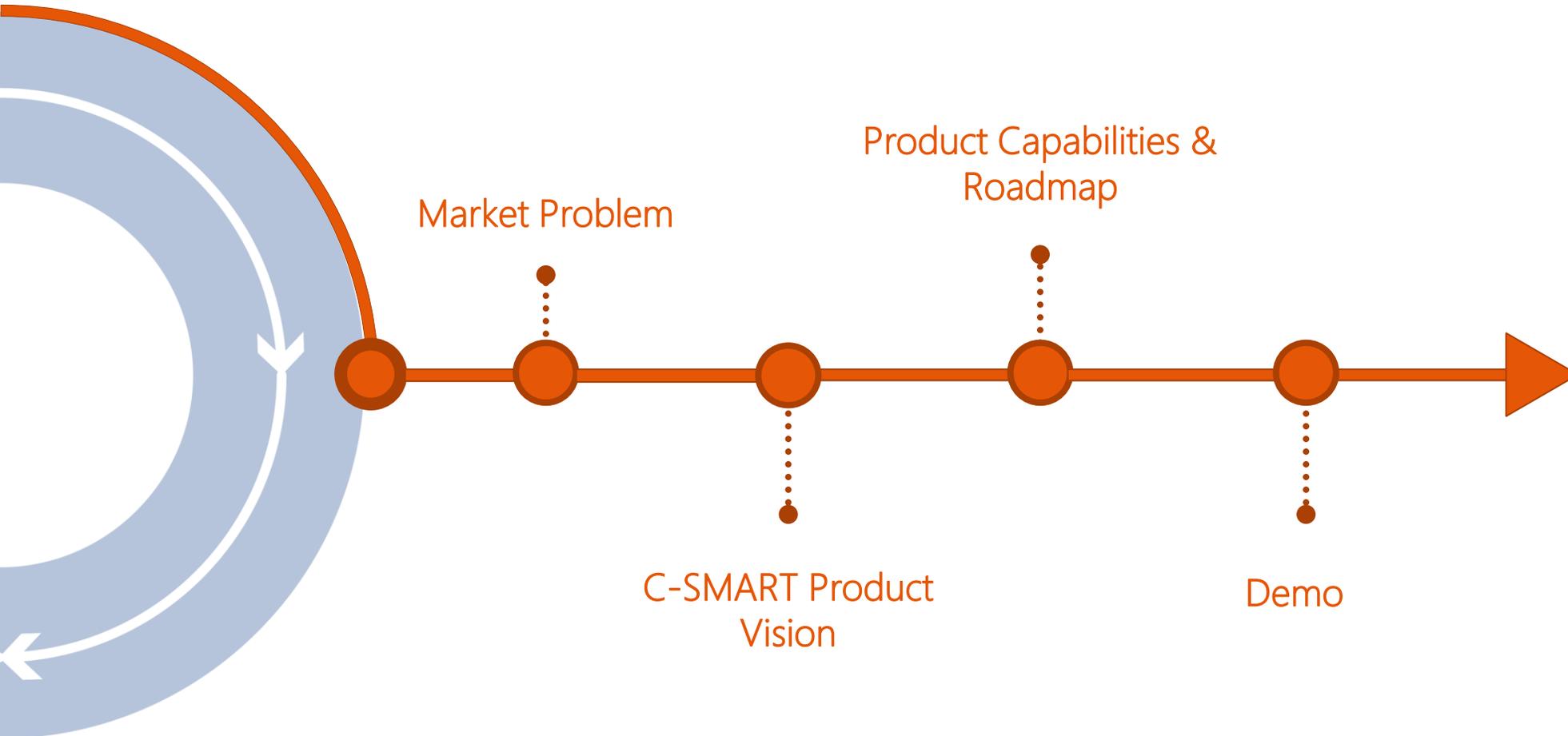
Secured Managed Automated Reporting Iool

Product Capabilities & Roadmap

January 2021



AI-POWERED AZURE AUTOMATION
AS A SERVICE



- 250+ products or services across 20+ functional buckets
- No-commitment subscription model delivers tremendous value to customers
- But lot of complexity & challenges as customers onboard the platform & start using ever more services



Deployment:
manual, error prone



Data Migration:
multiple sources, manual transformations, effort intensive



Management:
exponential increase in complexity with time



Infrastructure Monitoring:
manual or custom solution



Cost Monitoring & Optimization:
limited capability



Data Security:
high risk, multiple points of exposure



Network & Security:
high risk, multiple vulnerable areas



Discoverability:
no easy way to auto discover & visualize deployments



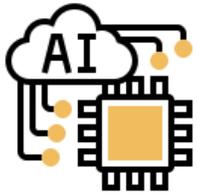
Application Health Monitoring:
no out of the box solutions



Business Continuity:
manual and tough to build

Comprehensive Azure cloud management platform focused on taking the grunt work out of customers' Azure usage, thus enabling them to be more productive with Azure to build their business.

4 key pillars:



Automate

reduce manual effort to the minimum, keep automating all that is possible across all aspects of Azure.



Learn

leverage AI to learn from customers' Azure usage, identify patterns and insights to make the platform smarter, ever evolving & learning.



Simplify

demystify Azure with simple and easy monitoring, management, optimization & reporting.



Support

24x7 availability of highly trained engineers to support customers using C-SMART to provide a truly delightful Managed Service experience.

Enables automated deployment of Azure resources from standalone services to complex architecture blueprints with backup & disaster recovery. Also provides a simple interface to discover, visualize and manage all your deployments.



Current Capabilities

- Automated deployment of standalone services.
- Support team assisted deployment of architecture blueprints.
- Support team assisted assessment for datacenter migration to Azure.
- Backup configuration for VMs.
- DR configuration for SQL.



Roadmap

- Fully automate deployment of architecture blueprints.
- Real-time auto-discovery of deployments with schematic & architecture diagrams.
- Edit, add, delete resources from the existing deployments.

Enables automated hybrid connectivity between Azure and your datacenter, provides ability to secure in/out bound traffic with native Azure Firewall or 3rd Party Virtual Appliances.



Current Capabilities

- Automated deployment of standalone services.
- Support team assisted deployment of architecture blueprints.
- Support team assisted assessment for datacenter migration to Azure.
- Backup configuration for VMs.
- DR configuration for SQL.



Roadmap

- Fully automate deployment of architecture blueprints.
- Real-time auto-discovery of deployments with schematic & architecture diagrams.
- Edit, add, delete resources from the existing deployments.

Enables automated data migration & continual ingestion thereon from various source systems to Azure destinations, along with in-transit & at-rest encryption for security. Also provides a simple interface for Data Governance.



Current Capabilities

- Automated data migration from SQL, Oracle & Dynamics 365 to Azure Data Lake Storage, Azure Storage and Azure Synapse.
- Automated encryption for in-transit and at-rest data.



Roadmap

- Expand source system coverage to include systems such as Teradata, Netezza, SAP, Salesforce etc.
- Implement Data Governance capabilities.

Enables monitoring of application health with real-time dashboards that show details of all functional aspects of the application. Also provides drill down capabilities to review application sub-systems & associated processes.



Current Capabilities

- Dynamic application health dashboard.
- Drill down capability to subsystems and thereon to associated Azure resources.
- Alerts & Notifications: email, Teams, Slack & Skype.
- Integration with Jira for ticket creation, resolution & closure.



Roadmap

- Enable definition of severity levels of alerts & associated actions.
- Expand coverage to other ITMS systems (such as Service Now etc.).

Enables monitoring of Azure resources across all deployments with dashboards showing the key metrics. Also provides a simple interface to start, stop & delete resources along with ability to configure execution schedules.



Current Capabilities

- Monitor all resources with dashboards showing key metrics.
- Start, Stop, Restart & Delete resources.
- Configure schedules at individual resource level.



Roadmap

- More Metric alerts to be added.

Automates the setup of initial configuration of a DevOps pipeline including everything from setting up the initial Git repository, configuring the CI/CD pipeline, creating a Web App for hosting your code, and providing a single view of the entire solution with the creation of a DevOps Projects dashboard in the C-SMART portal.



Current Capabilities

- Quickly deploy your Angular application to Azure
- Deploy Azure App Service for hosting
- Automate the setup of a CI/CD pipeline
- View and understand how to properly set up a CI/CD pipeline
- Further customize the release pipelines based on your specific scenarios



Roadmap

- Expand hosting platform to deploy Application on Linux App Service, Azure Kubernetes Service, Containers
- Expand Application deployment to Node Js, Python

Enables real-time monitoring of the cost of Azure resources & ability to schedule resources to save cost. Also provides recommendations to reduce cost by analyzing resource utilization and other data.



Current Capabilities

- Cost monitoring dashboard with actual, budget & forecast data.
- Azure Advisor recommendations for cost optimization.
- Scheduler to start, stop Virtual Machines.



Roadmap

- Deeper analysis of cost data across resources to deliver meaningful cost optimization recommendations.
- Incorporate different pricing levels – PAYG, 1 & 3-year RI and Spot into cost optimization analysis.

Provides a cloud governance framework for enterprises using Microsoft Azure to define and enforce Identity & Access Management, IT policies & regulatory compliances, conducting audits and setting schedules for cost savings.



Current Capabilities

- Identity & Access Management.
- Enterprise Policies.
- Auditing and Logging.
- Gallery.



Roadmap

- Business rules driven framework for policy definition.
- User activity analytics.
- Network logs analytics.
- Data flow logs analytics.
- Enterprise policy logs analytics.
- Resource logs analytics.

Enables an intuitive chatbot interface for C-SMART users to get ad-hoc & scheduled notifications, get real-time data on Azure cost, monitor all resources with key metrics and execute Governance related tasks easily.



Current Capabilities

- Notifications.
- Cost Monitoring – scheduled & ad-hoc.
- Identity and Access Management.
- Resource Monitoring.



Roadmap

- Application Health Monitoring.
- Smart Scheduler.

Enables a seamless Managed Service experience in conjunction with C-SMART platform by providing 24x7x365 support for architecture blueprint deployments, Azure related consultations and for any issue with C-SMART.



Current Capabilities

- Architecture blueprint deployment assistance.
- Architecture and design reviews.
- Strategic Planning sessions.



Roadmap

- BOT to be trained with FAQ support queries.

Screen shots of Dashboards You get



Application Health Monitoring

Enables monitoring of application health with real-time dashboards that show details of all functional aspects of the application. Also provides drill down capabilities to review application sub-systems & associated processes.



Infrastructure Deployment & Management



Network Connectivity & Security



Data Migration, Security & Governance



DevOps Starter



Resource Monitoring & Scheduling



Application Health Monitoring



Cost Monitoring & Optimization



Compliance & Governance

Configure Notificati...



Nilay Chawari

Job -

Department -

Office Location -

A3S Admin ID

A3S Bot ID



Dedicated Support

(24x7x365)



AI-POWERED AZURE AUTOMATION
AS A SERVICE



Infrastructure Deployment & Management

Deployment ^



Dedicated Compute



Serverless Compute



Storage



Database



DaaS

Business Continuity v

Architecture Blueprint v

Management v

Subscription

Rohit



Resource Group

ITE



Azure Synapse Analytics



Cosmos Database



SQL Database Elastic Pool



SQL Database Single Instance



SQL on a VM



AI-POWERED AZURE AUTOMATION
AS A SERVICE



Network Connectivity and Security

Setups ^

Virtual Network

Firewall Setup

VPN Setup

Subscription

Rohit



Resource Group

ITE



Site to Site VPN



Point to Site VPN



Express Route Setup





Compliance and Governance

Enterprise Policies ^

General

Compute

Storage

Tags

Network

CosmosDB

Resources

Identity & Access Management v

Auditing & Logging v

Subscription

Rohit



Search

search here

Allowed Locations

1

Category - General
Effect - Allow

Allowed locations for resource groups

2

Category - General
Effect - Allow

Denied Locations

3

Category - General
Effect - Deny

Denied locations for resource groups

4

Category - General
Effect - Deny



AI-POWERED AZURE AUTOMATION
AS A SERVICE



Compliance and Governance

Enterprise Policies

Identity & Access Management

Manage RBAC

Auditing & Logging

User Management

Search

search here

Display Name	Job Title	Department	Mail	Mobile Phone	Office Location	
SAMEER SRIVASTAVA	-	-	1000009042@dit.edu.in	-	-	
Nisha Goyal	-	-	17ucs102@lnmit.ac.in	-	-	
Aditya Ranjan	-	-	2016csaditya4764@poornima.edu.in	-	-	
Manas .	-	-	2016pcecemanas062@poornima.org	-	-	
2016pietcenipun070	-	-	2016pietcenipun070@poornima.org	-	-	

< Previous Next >





CI/CD Pipeline



Code

testingtoday

Visit [↔](#)



Build

testingtoday-CI

Visit [↔](#)



Release

testingtoday-CD

Visit [↔](#)

Service Connection



testingtodayServiceEndpoint

Visit [↔](#)

Azure Resources

Application Endpoint

<https://testad12as.azurewebsites.net> [↔](#)

App Service



testad12as



Running

User and Group



Created By : **Admin**

Visit [↔](#)





Resource Monitoring & Scheduling

All
Compute
Storage
Networking
PaaS
Filter
Refresh

🕒	State	Name	Resource Type	Subscription	Resource Group	Location	📍	📊	☰
🕒	Running	botdeployASP	App Service Plan	Rohit	A3S	eastus	📍	📊	☰
🕒	Running	ASP-AzureDevOpsChatbot-b2a4	App Service Plan	Rohit	AzureDevOpsChatbot	centralus	📍	📊	☰
🕒	Running	azureDevOpsChatbotServicePlan	App Service Plan	Rohit	AzureDevOpsChatbot	eastus	📍	📊	☰
🕒	Running	CaimIndiaDemoBotAppService	App Service Plan	Rohit	CaimIndiaChatbot	eastus	📍	📊	☰
🕒	Running	ASP-DainikBhaskarSample-ae4f	App Service Plan	Rohit	DainikBhaskarSample	centralus	📍	📊	☰
🕒	Running	chatbotdemoserver	SQL Server	Rohit	DemoRG	eastus	📍	📊	☰
🕒	Running	chatbotdemoserver/chatbotdemo	SQL Database	Rohit	DemoRG	eastus	📍	📊	☰
🕒	Running	cterpdbserver	SQL Server	Rohit	DemoRG	eastus	📍	📊	☰
Total Resources - 32						Total Running - 26			



Resource Detail

Name : botdeployASP
Type : App Service Plan
Subscription :
Resource Group : A3S

Filter

Time Stamp (UTC)

24 Hours

Metric Name

CPU Utilization x

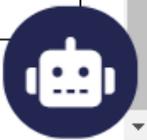
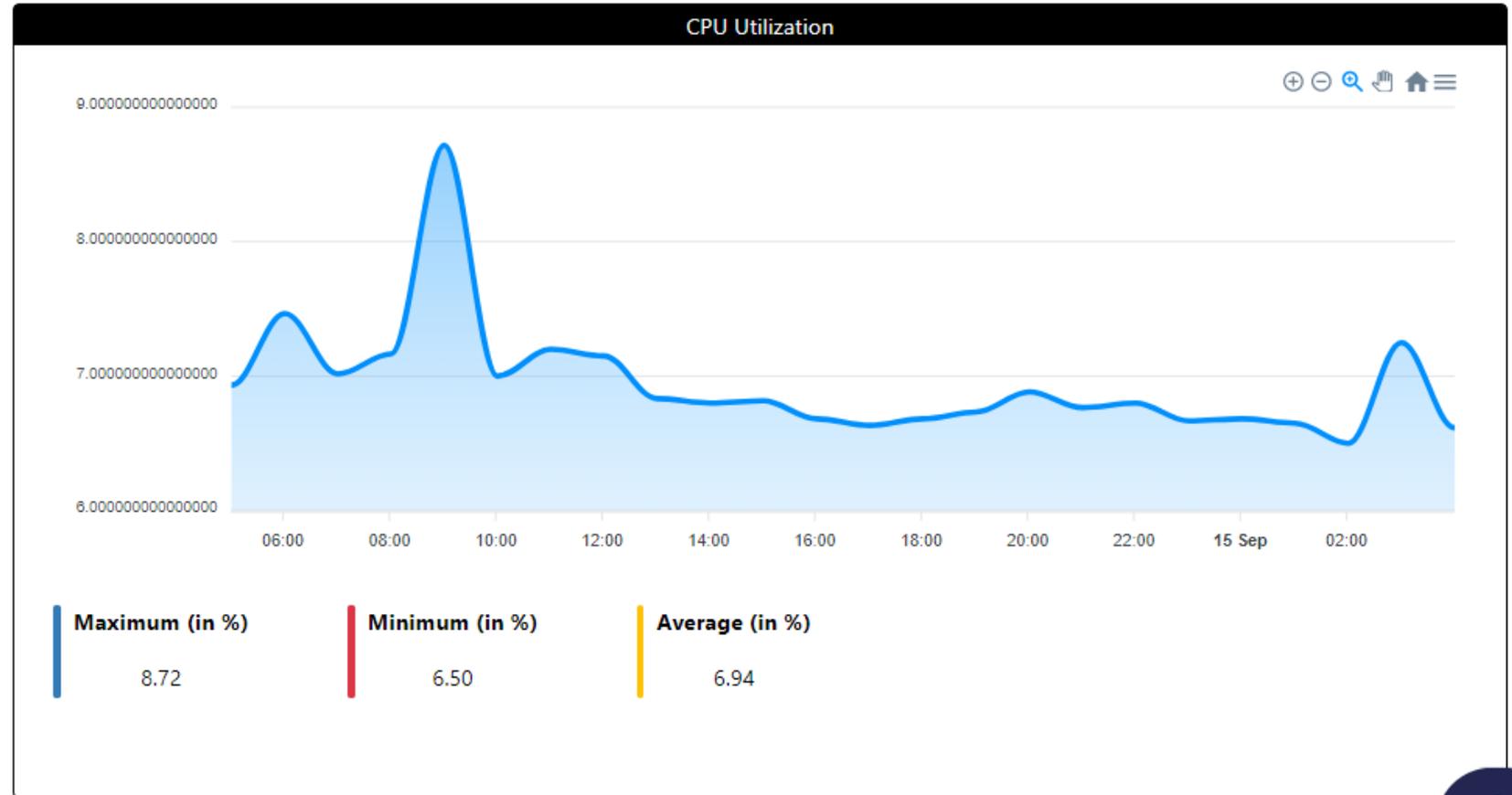
Aggregation

Average

Time Granularity

1 Hour

Metric



Performance Factor

Status: Critical
9.61%

- Healthy
- Warning
- Critical

Reset all filters

Time

Last 1 Select

No filters applied

Top N

5

Projects

All

Environment (Select Project)

All

Interface (Select Environment)

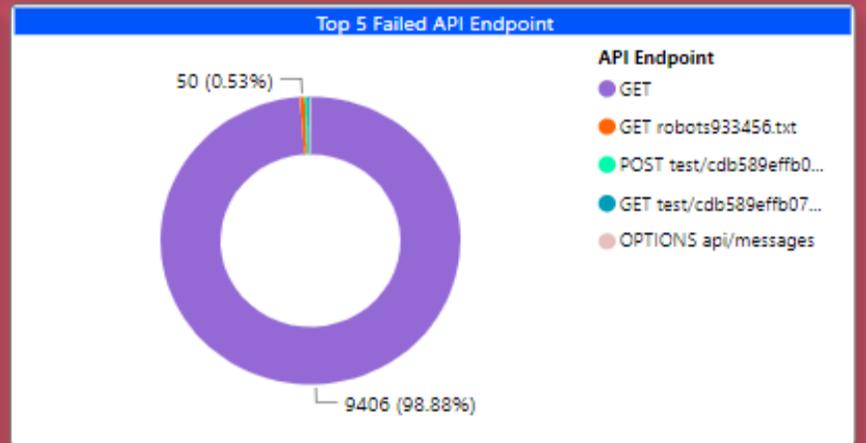
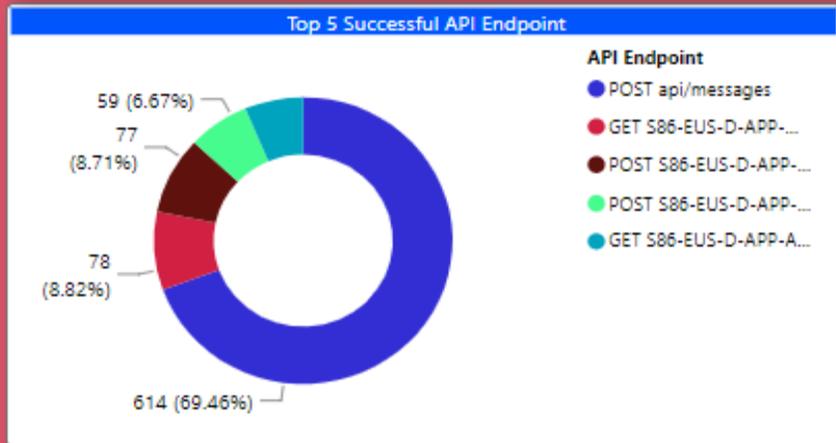
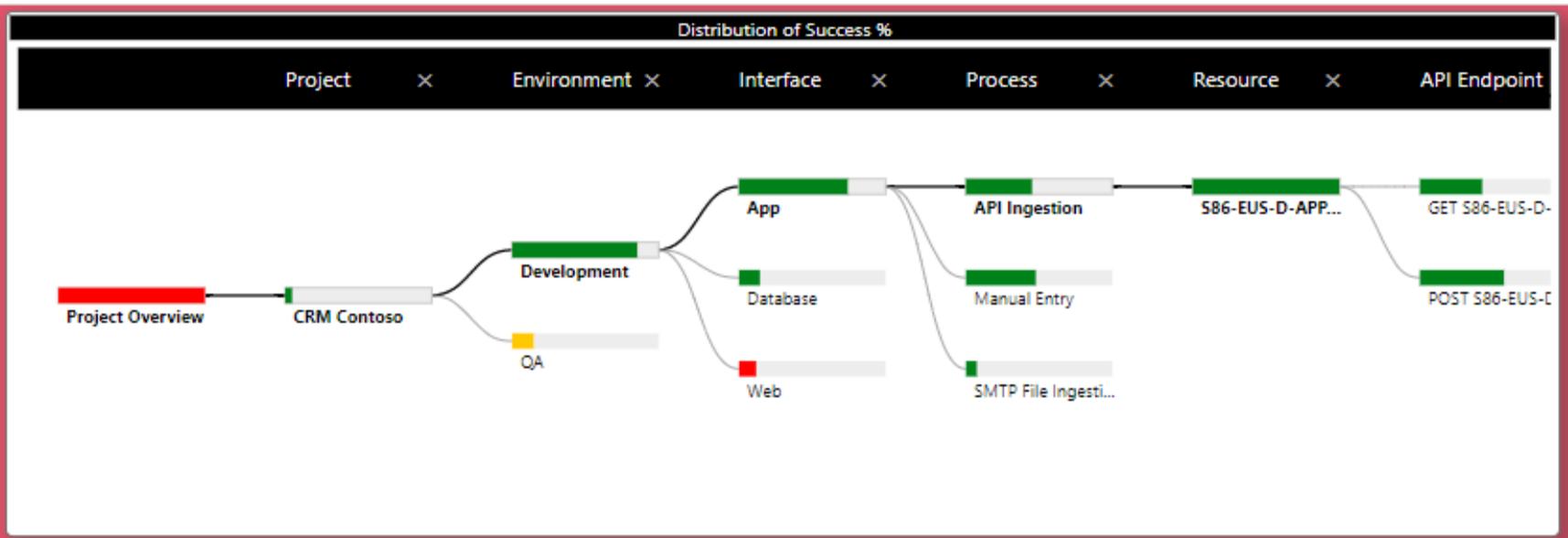
All

Process (Select Interface)

All

Resource Name (Select Process)

...



Critical API Endpoints as per Success %

98d42e1ee2c4f089b8cdf1c777c3d68 0.00% GET_test/cdb589effb07439e9083da8c773e5c14 0.00%

Performance Factor

Status: Healthy

- Healthy
- Warning
- Critical

Reset all filters

Time

Last 1 Select

No filters applied

Projects

All

Environment (Select Project)

All

Interface (Select Environment)

All

Process (Select Interface)

All

Resource Name (Select Process)

All

Maximum Time (in ms)

26,847.00

Average Time (in ms)

6,235.23

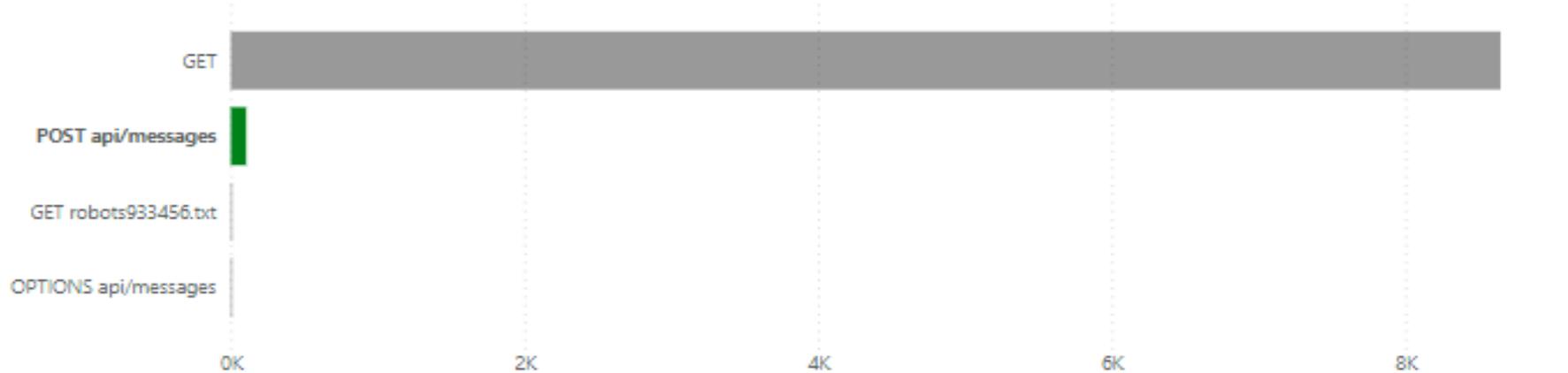
Minimum Time (in ms)

716.00

Number of Hits

105

Success by API_Endpoint



Success % by Environment



Success % by Interface



Success % by Process



Currency

AUD EUR GBP **INR** USD

Actual Cost (₹)

₹ 107406.60

Forecasted Cost (+15 days)

₹ 121772.67

Reset all filters

Date

Last 1 Select

No filters applied

Subscription Name

All

Resource Group (Select Subscription Name)

All

Resource Type (Select Resource Group)

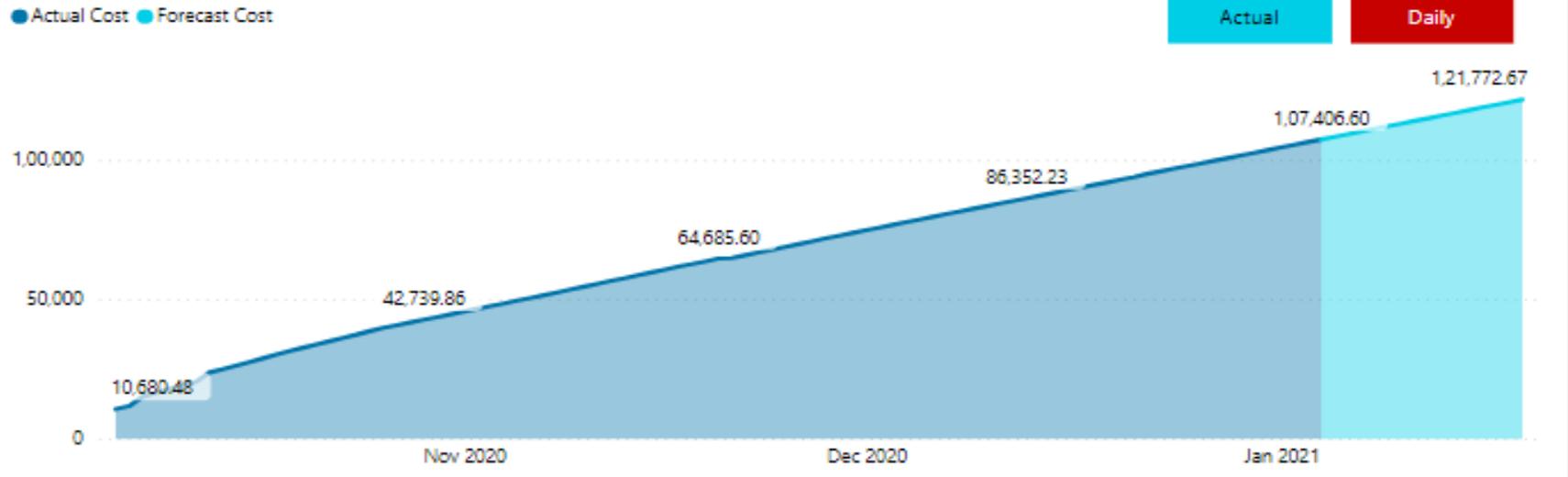
All

Resource Name (Select Resource Type)

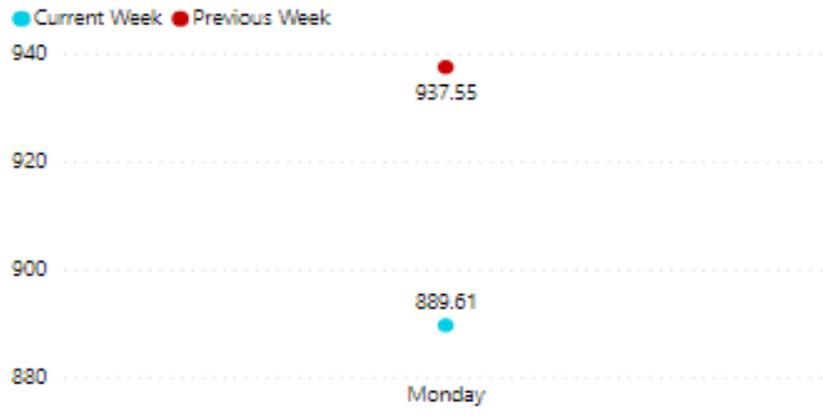
All

Disclaimer: The Forecast Cost is not available for any Resource Type and Resource Name.

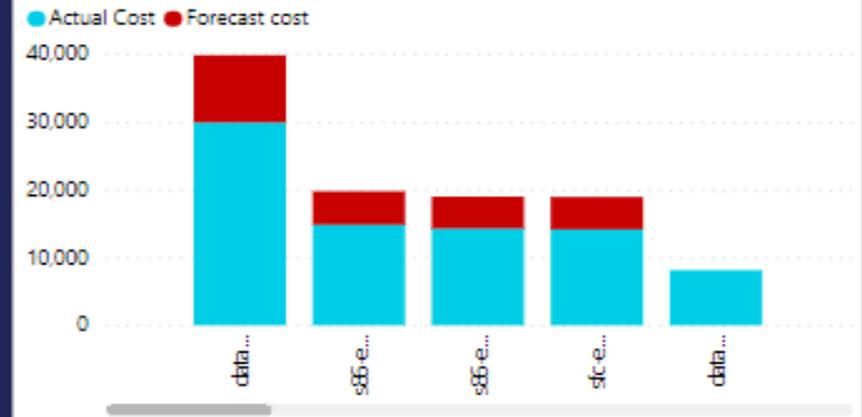
Actual Cost & Forecast Cost by Date



Weekly Cost Comparison



Cost by Resource Group



Currency

AUD EUR GBP **INR** USD

Actual Cost (Till Date)

₹ 3715.49

Forecasted Cost (+15 days)

0.00

Reset all filters

Date

Last 1 Select

No filters applied

Cost Top N

5

Subscription Name

All

Resource Group (Select Subscription Name)

All

Resource Type (Select Resource Group)

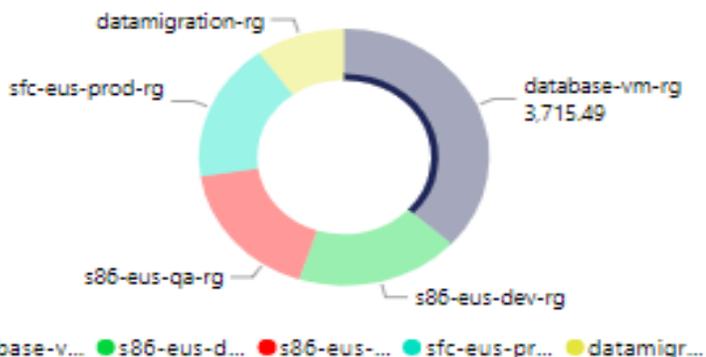
All

Resource Name (Select Resource Type)

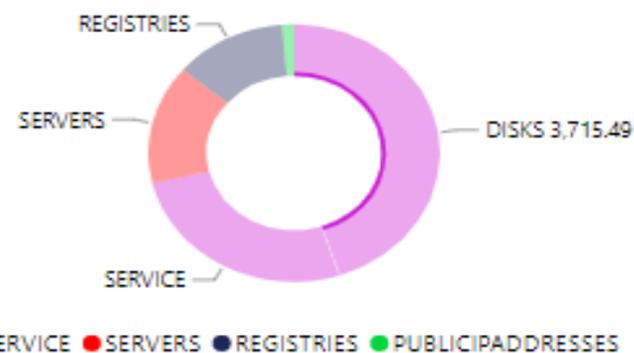
All

Disclaimer: The Forecast Cost is not available for any Resource Type and Resource Name.

Top 5 Cost by Resource Group



Top 5 Cost by Resource Type



Cost Distribution



Your Trusted Azure Automation Partner!

Microsoft
Partner



Gold AI Inner Circle
Gold Cloud Platform
Gold Application Development
Gold Application Integration
Gold Data Analytics
Gold Data Platform
Gold DevOps

