



## **AGENDA**

How Azure can tell you more about Archer and your user behavior

- Introduction to Microsoft's EGRC Archer Platform
- Our Problem Statement
- Our Solution
- What We Learned





## MICROSOFT'S EGRC ARCHER PLATFORM

EGRC is Microsoft's Archer enterprise governance, risk, and compliance tool that provides a centralized information repository for the reporting of security, compliance, and enterprise risks.

### **EGRC Timeline**



Enhanced our change management and governance program

We're focused on optimizing the EGRC platform to achieve even greater efficiencies

### **Platform Size**

- 8 core solutions:
  - o Policy Management
  - o Compliance Management
  - o Issue Management
  - o Policy Exception Management
  - o Business Continuity Management
  - o Risk Management
  - Incident ManagementEnterprise Management
- By the numbers:
  - o 50+ Workspaces
  - o **20+** ODAs
  - o 40+ Questionnaires
  - o 20+ Active data-feeds

### **Platform Usage**

- 30+ business groups across the company run their services in the tool
- We average approximately 5000 unique users every month from over 15 countries
- **1500+** unique notifications are sent each month

### **Azure Migration Overview**

- Identified best-in Azure architecture that will meet the platform's growing needs
- Successfully transitioned environment to Azure in FY16
- Continuously optimizing cloud usage through weekly tracking activities







# EGRC'S USER FEEDBACK

# 1. Navigational & Performance Concerns



Significant customization and configurations were negatively impacting the performance and users were getting confused with the platform's user interface

### 2. Lack of Alerting



Lack of standardized monitoring to correct failures on the server (SQL and custom jobs), thereby causing after-hour outages

### 3. Limited Reporting Capabilities



Due to Archer's limited reporting capabilities, EGRC users as well as the engineering team were unable to leverage the data to make insightful business decisions

### Led to

Inability to identify high-impact areas for improvement + Reactive approach to system outages + Limited data insights





## CHALLENGES WITH ARCHER

## ARCHER CHALLENGES



- Inability to track unique user count, activity by geography, usage by workspaces and application
- Lack of monitoring at the server-level to alert the team on system failures
- 3. Inability to present "live" data visualizations to senior leadership



## **OUR SOLUTIONS**



- 1. Microsoft Azure's Application Insights
- 2. Microsoft's Operations Management Suite (OMS)
- 3. Microsoft's Power Bl

As our platform scaled, our ability to track and address performance and user experience issues were limited with the native Archer capabilities but moving to Azure provided us with the solutions we needed.







# MICROSOFT AZURE'S APPLICATION INSIGHTS

GOAL: OPTIMIZE WORKSPACES AND APPLICATIONS PER USAGE PATTERN

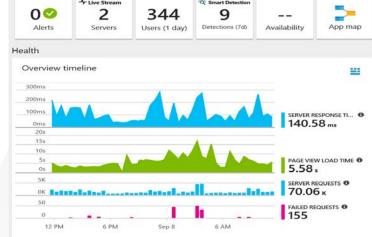


- Sends telemetry from Archer to the Application Insights portal on Azure
- Helps detect and diagnose performance issues, and understand how users navigate within Archer



- Added Azure SDK script into workspace.aspx page on the web-server to retrieve the workspace name
- Added Application Insights instrumentation code as a custom object to modules





# Value Added

- 360 degree view of EGRC and complete visibility into the heavily-used areas including applications and questionnaires
- Transitioned from logging telemetry to analyzing and acting on telemetry

### **Top 5 Page Views**

**Overall Platform Usage** 







**Top 5 Applications** 

# MICROSOFT'S OPERATIONS MANAGEMENT SUITE (OMS) GOAL: DETECT AND RESPOND TO SERVER ISSUES

How?

solution

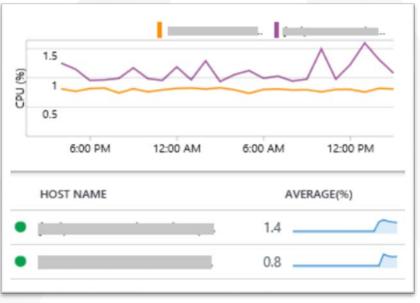
# What?

- Core services to address different operational scenarios:
  - Powerful Log analytics
  - Automation
  - Backup & Site Recovery



- Installed Microsoft Monitoring Agent (MMA) on our Azure Virtual Machine (VM) and connected them to the OMS
- Added different data sources including IIS logs, Windows Event logs for tracking

#### **CPU** Utilization



## Value Added



Improved security posture through the continuous monitoring and assessment of our servers

#### **SQL** Recommendations





# MICROSOFT'S POWER BI

## **GOAL: ENHANCE THE WAY WE VIEW COLLECT AND VIEW DATA**



- Business analytics tool that can connect to varied data sources to gather and deliver insights to your organization
- Enables different users based on their role and usage style

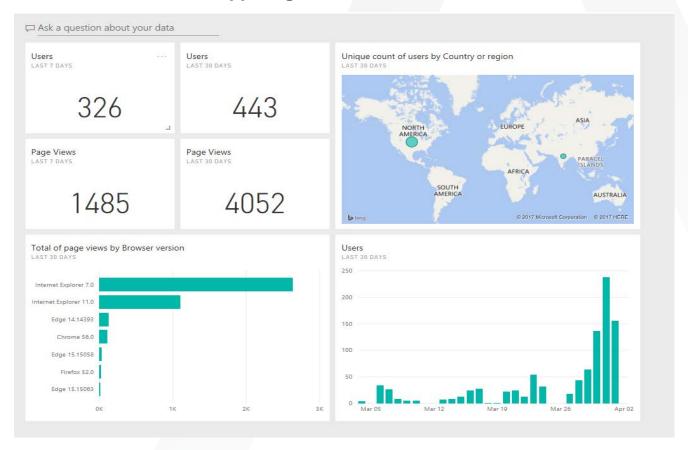


# Value Added



- Better understanding of critical risk and failure through a single, consolidated view
- Data available on-the-go through Power Bl's mobile view, alerts on sudden spikes in the data

### **Consolidated View of Applnsights, OMS & Archer**









# WHAT WE LEARNED

IT'S POSSIBLE



It is possible to learn about your platform's usage per application and solution

EASY TO DO



Plug-ins like Azure's
Application Insight
and OMS's make
the implementation
fast and easy

**EFFECTIVE** 



The data we captured is highly influential in making key business descisions

**BUILD KPIS** 



Benchmark your improvements with KPIs to ensure that your actions enables customers



