



BAIT 3273 Cloud Computing

Week 13

*Apply and monitor
infrastructure standards with
Azure Policy
(Continue)*

Define standard resources with Azure Blueprints

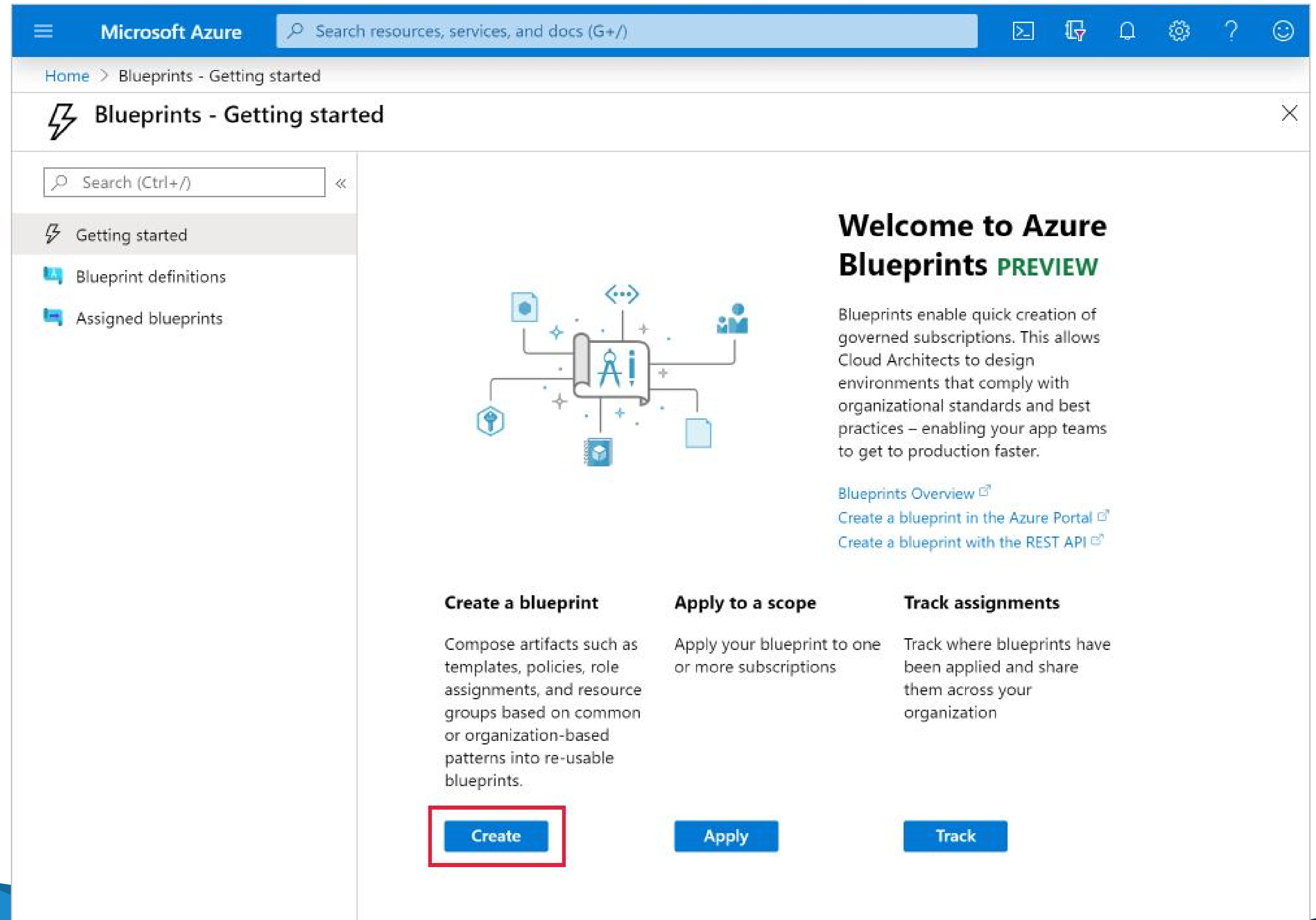
Azure Blueprints

- Enables cloud architects and central IT groups to define a set of Azure resources that are repeatable.
- Can resources be implemented with compliance to an organization's standards, patterns, and requirements.



Azure Blueprints

- A declarative way to coordinate the deployment of discrete resource templates and other artifacts.



Azure Blueprints



Process of implementing Azure Blueprint

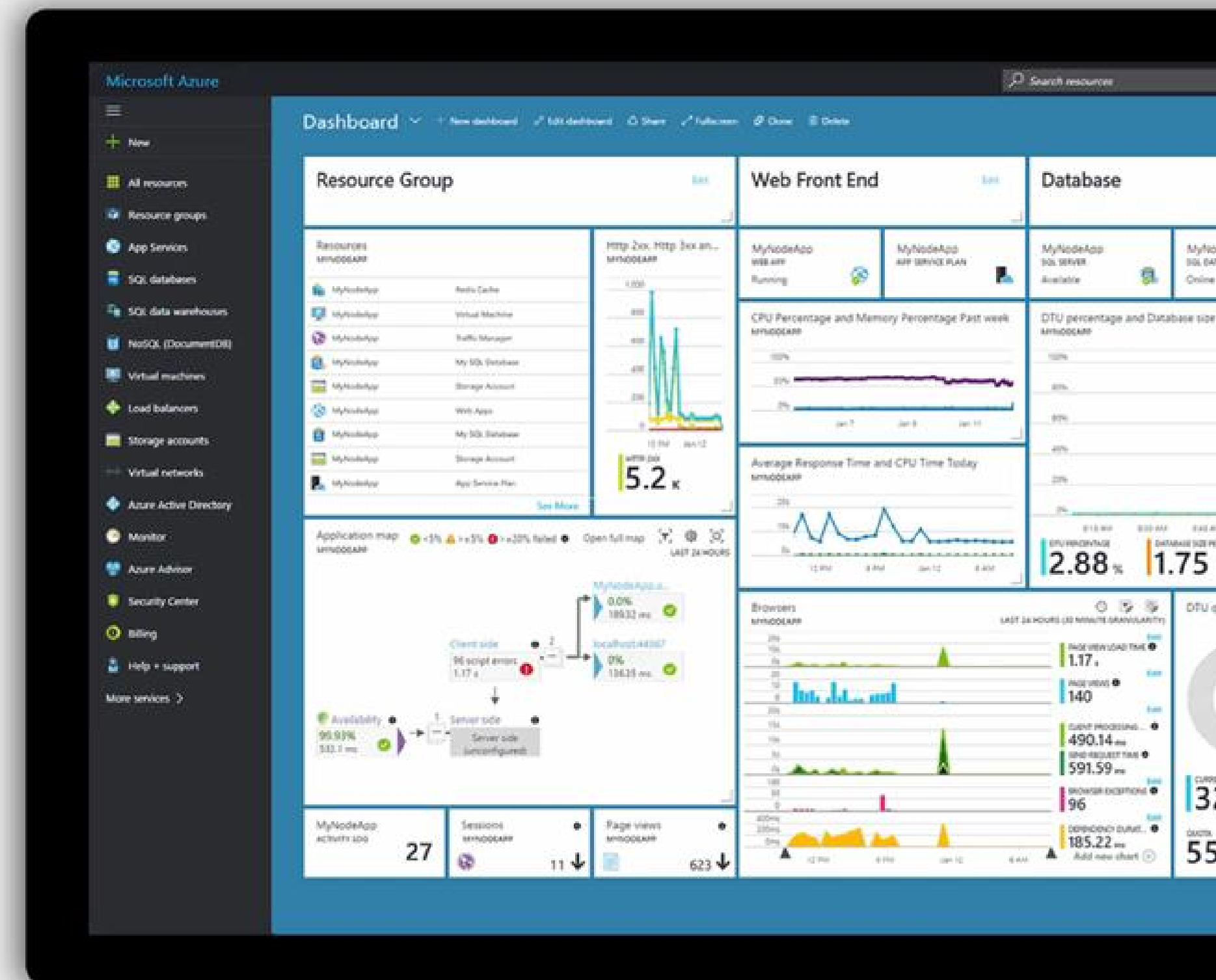
- 1. Create an Azure Blueprint*
- 2. Assign the blueprint*
- 3. Track the blueprint assignments*

Azure Blueprints



Azure Tips and Tricks

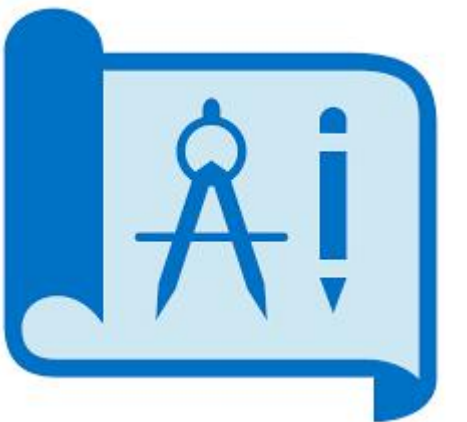
Working with Azure Blueprints



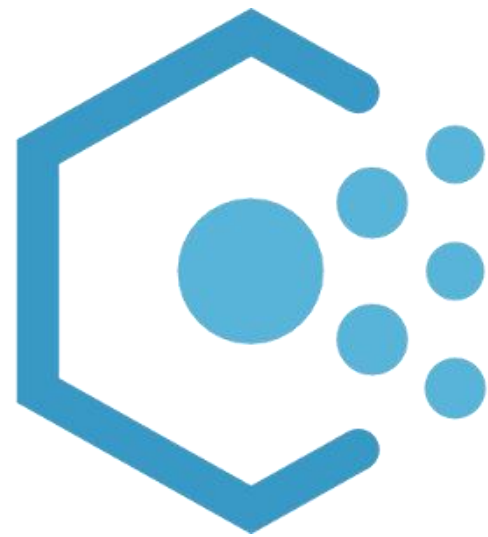
How is it different from Resource Manager templates?



Resource Manager templates	Azure Blueprints
<ul style="list-style-type: none">• Resource Manager template is a document that does not exist natively in Azure where it is either stored locally or in source control.• Once the Azure resources are deployed, there is no more relationship between the resources and the template.	<ul style="list-style-type: none">• With Blueprints, the relationship between blueprint definition and assignment is preserved which supports tracking and auditing of deployments.



How it's different from Azure Policy

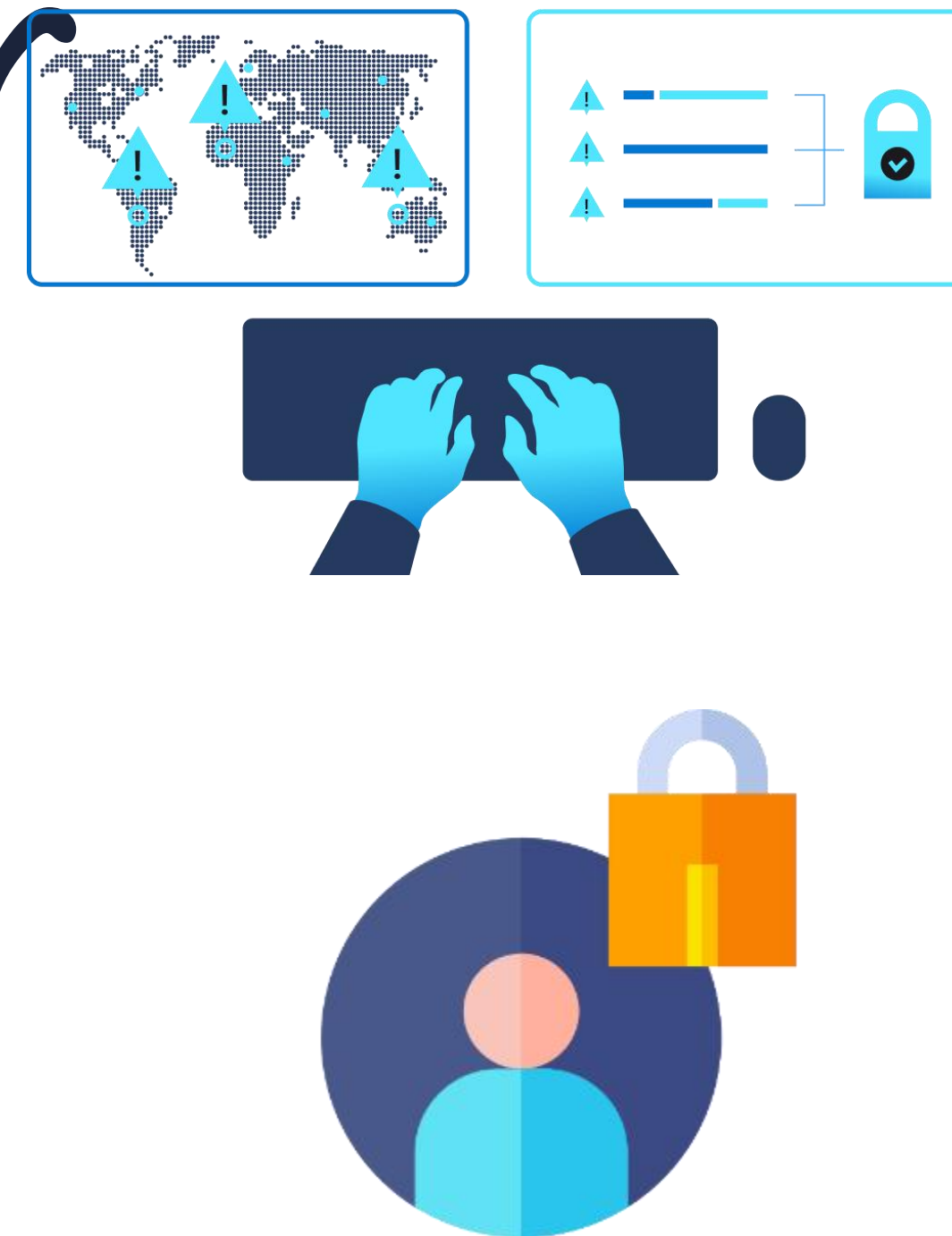


Azure Policy	Azure Blueprints
<ul style="list-style-type: none">• Focused on resource properties during deployment and for existing resources.• Can be included as one of many artifacts in a blueprint definition.	<ul style="list-style-type: none">• Is a package or container that can be reused to compose standards, patterns, and requirements.• Azure Policy is one of the artifacts in Azure Blueprints.

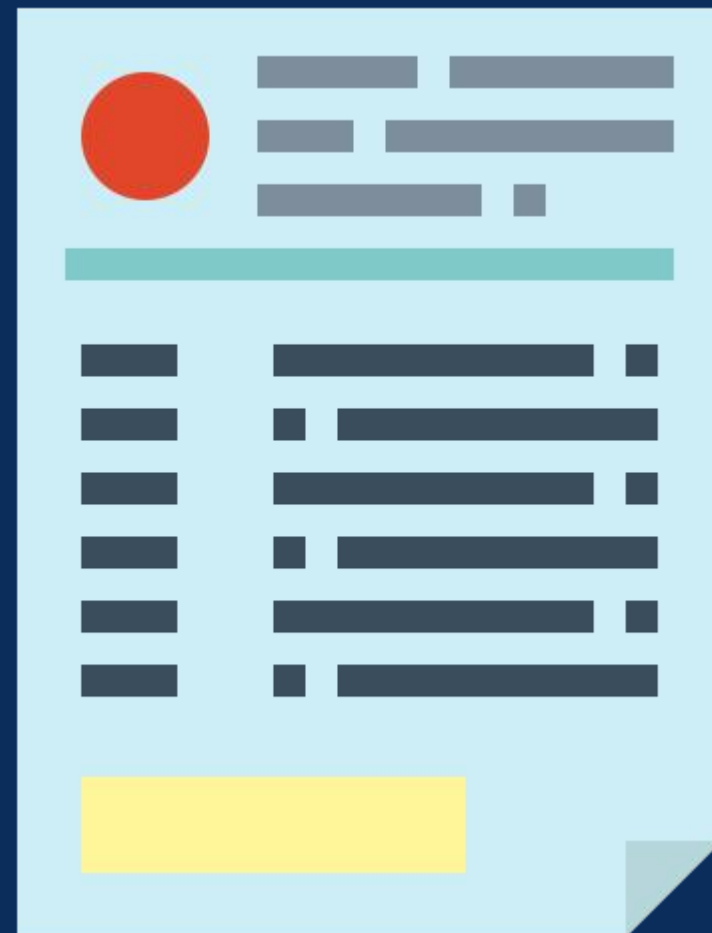


Explore your service compliance with Compliance Manager

- Microsoft Privacy Statement
- Microsoft Trust Center
- Service Trust Portal
- Compliance Manager

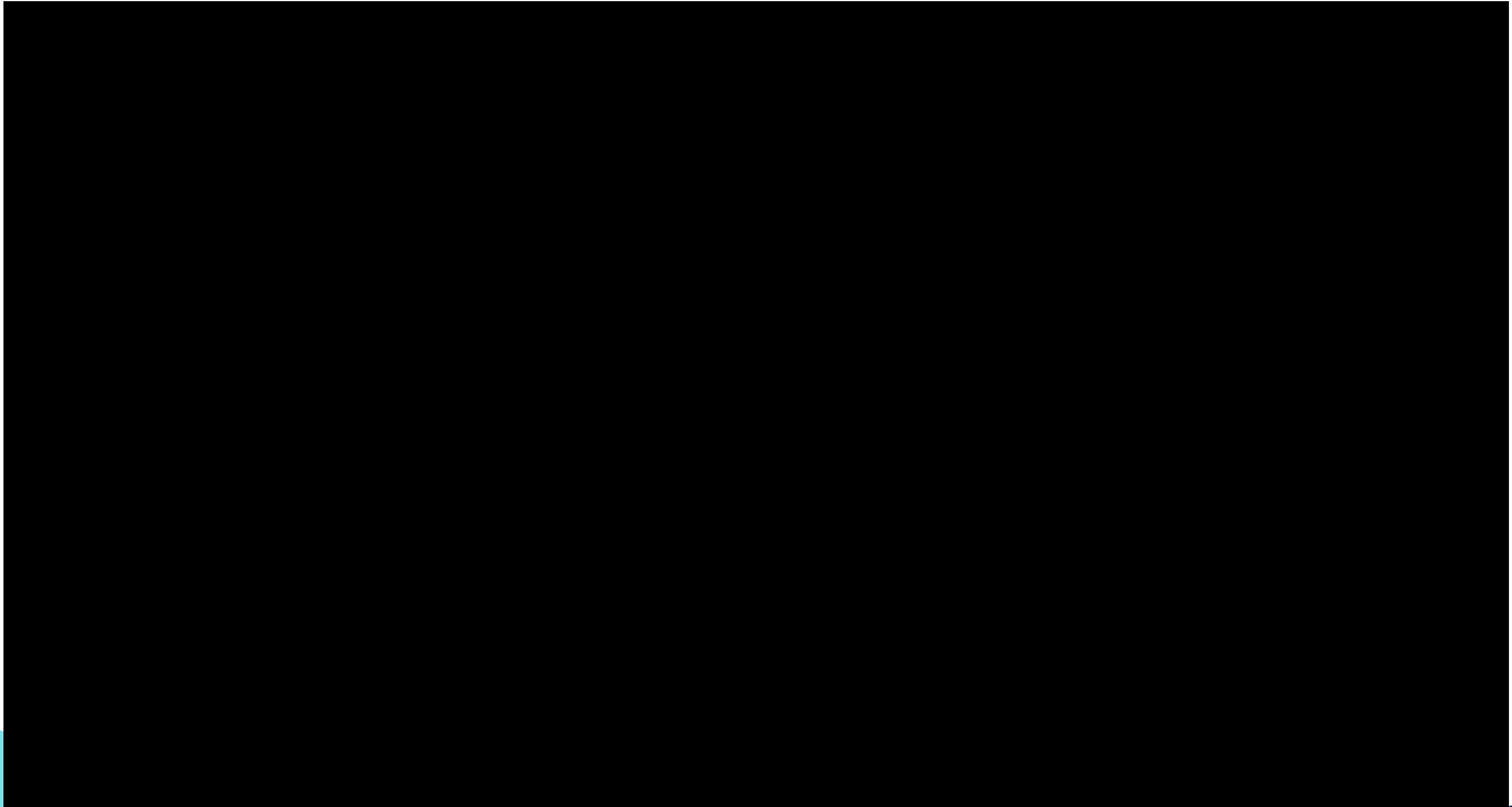


Microsoft Privacy Statement



- Disclose about personal data that Microsoft:
 - Processes
 - How they process it
 - Used for what purposes
- Applies to the interactions of Microsoft and their products.

Microsoft Privacy Statement



- A website resource that contains information and details on how Microsoft implements and supports their products and services.

☑ Includes:

- ☑ In-depth information about security, privacy etc.
- ☑ Recommended resources
- ☑ Direct guidance and support

Microsoft Trust Center

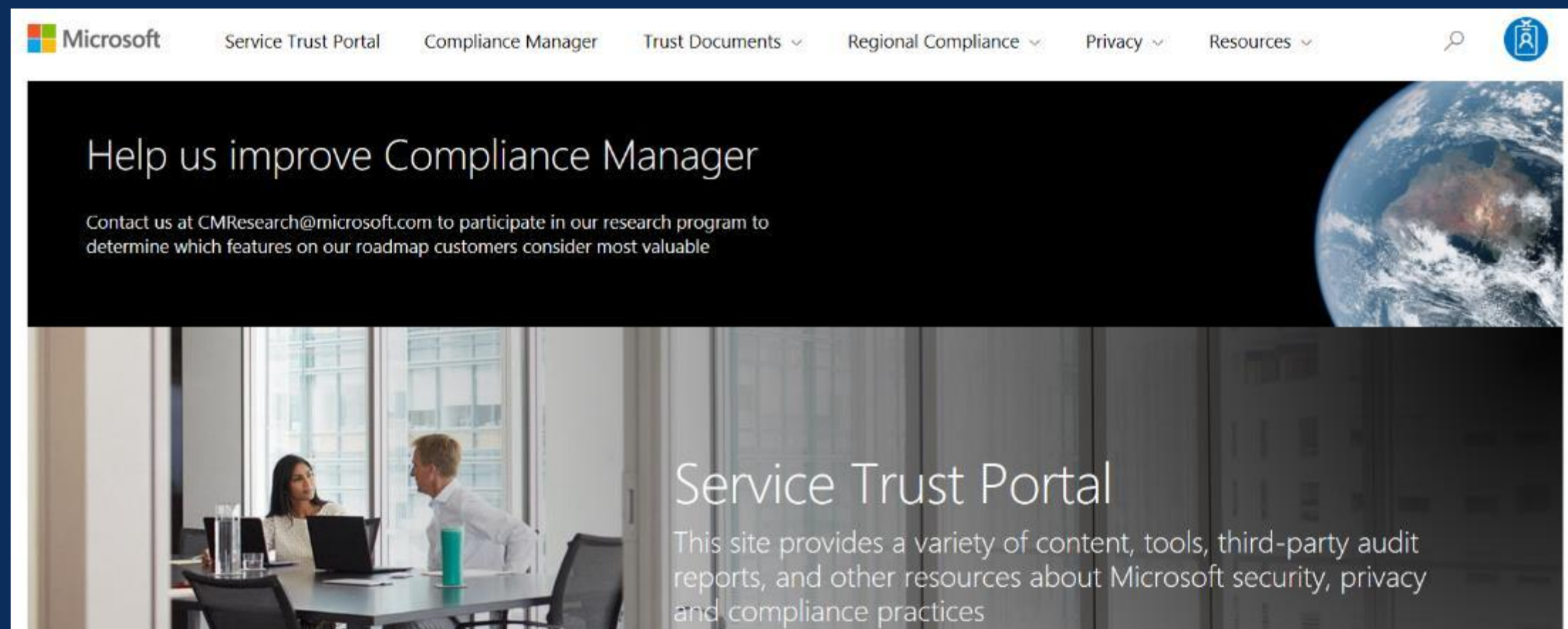


Azure Trust Center

Azure Trust Center

Cheat sheets, Practice Exams and Flash cards 🖱️ www.exampro.co/az-900

Service Trust Portal (STP)



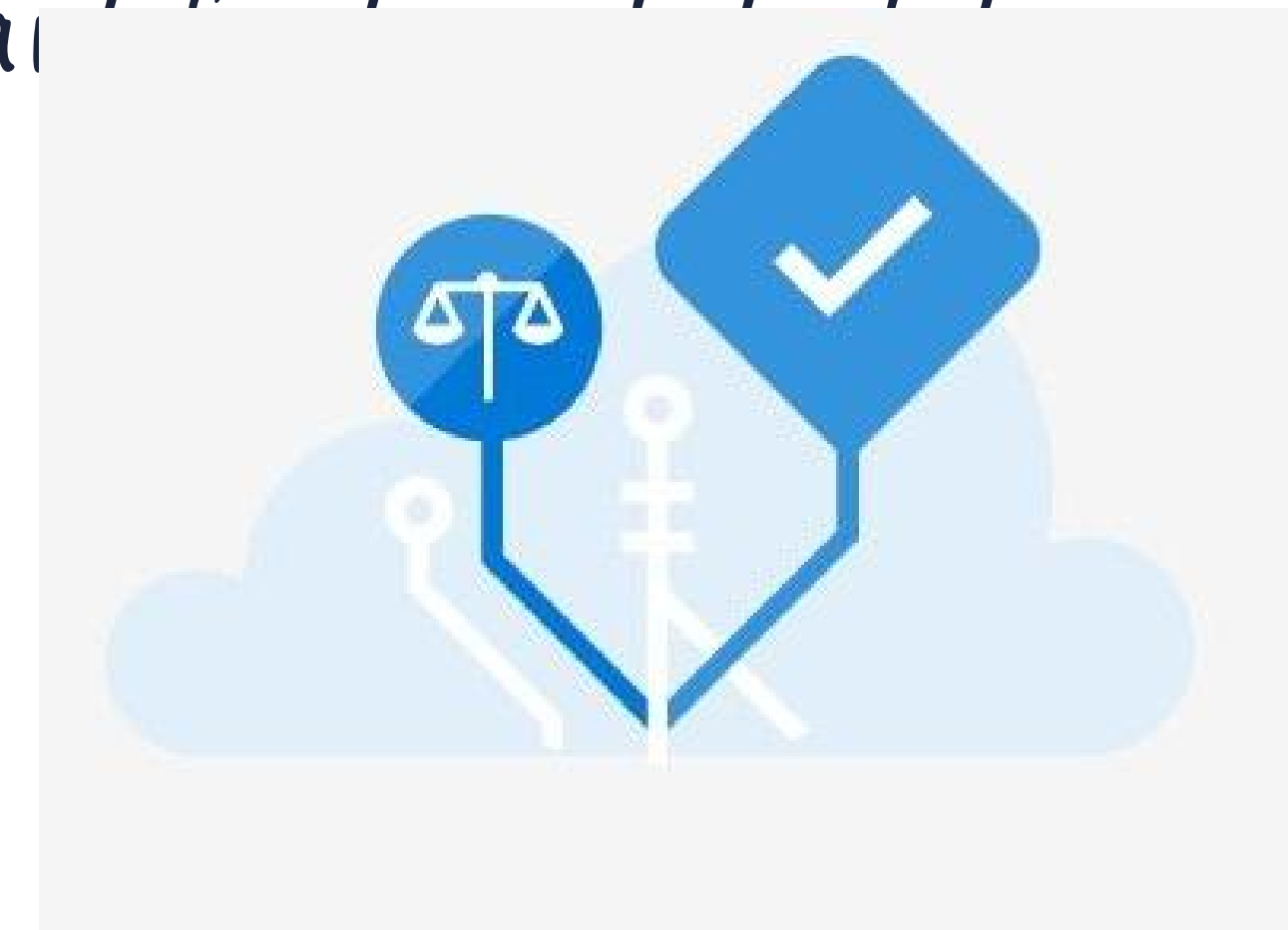
- Hosts the Compliance Manager service.
- Public site for publishing audit reports and other compliance guides.
- Includes trust documents about Microsoft.

Service Trust Portal (STP)



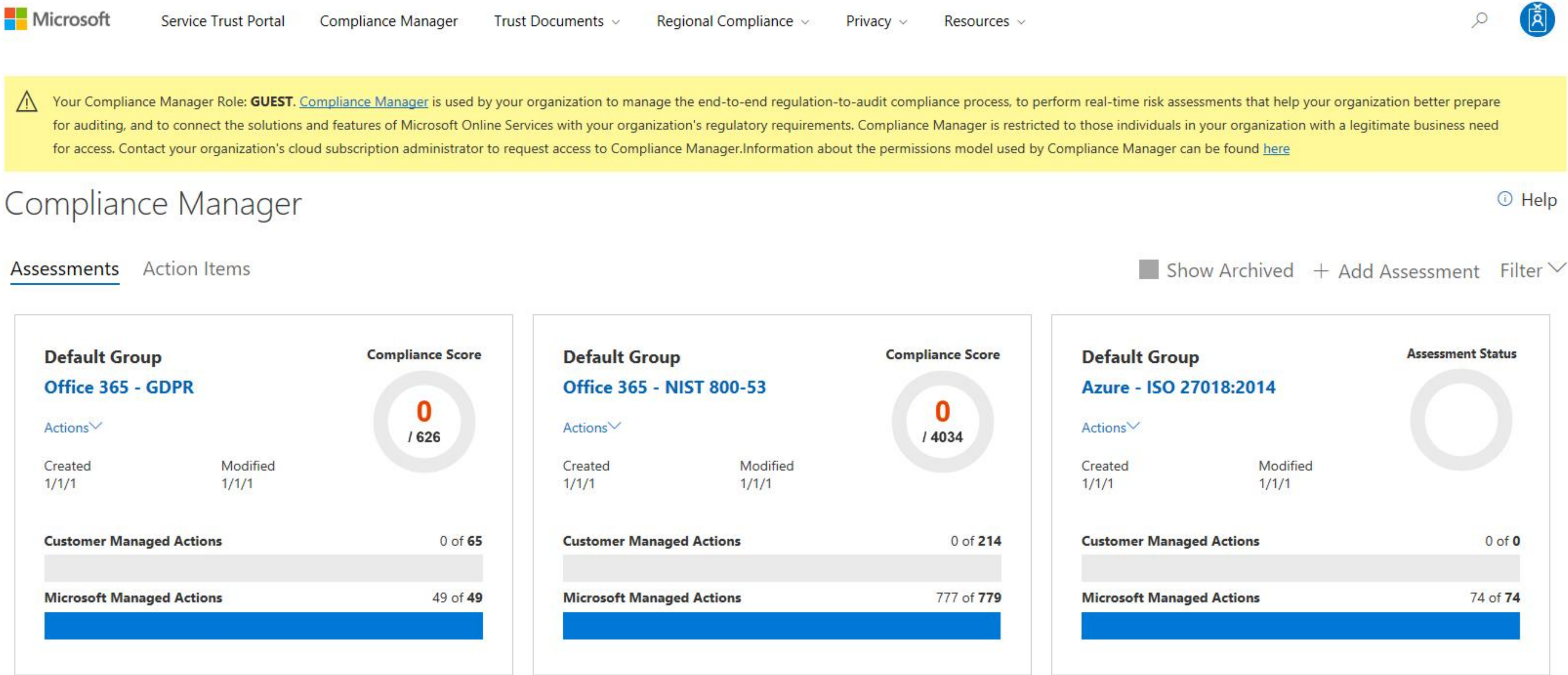
Compliance Manager

- Compliance Manager is risk assessment dashboard that based on workflow.
- Enables organization to track, assign, and verify organization's regulatory compliance activities.
- Features includes:
 - Assign, track, and record compliance and assessment-related activities.
 - Provides a secure repository to store all compliance activities.
 - Produces abundantly detailed reports.

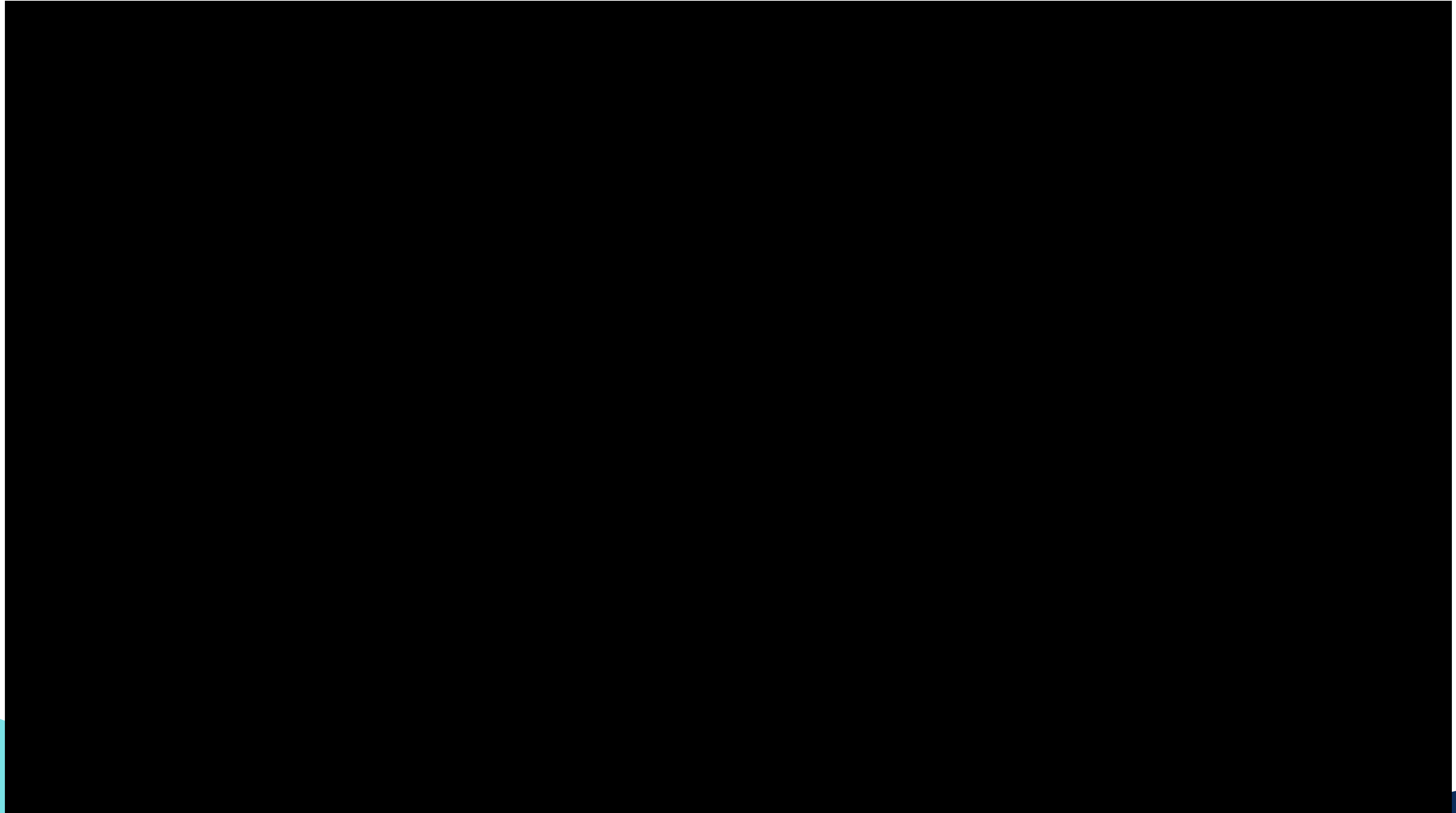


Compliance Manager

- Compliance Manager also provides recommendation on improving regulatory compliance.



Compliance Manager



Monitor your service health

Azure provides two different services for monitoring the health of applications and resources.

1. Azure Monitor
2. Azure Service Health



Azure Monitor



- *Maximizes the availability and performance of applications through comprehensive solution.*
- *Helps to understand how applications are performing.*

Data sources



Azure Monitor is capable of collecting data from different sources in various tiers

Data Tier	Description
Application monitoring data	Data about the performance and functionality of the code you have written, regardless of its platform.
Guest OS monitoring data	Data about the operating system on which your application is running. This could be running in Azure, another cloud, or on-premises.
Azure resource monitoring data	Data about the operation of an Azure resource.
Azure subscription monitoring data	Data about the operation and management of an Azure subscription, as well as data about the health and operation of Azure itself.
Azure tenant monitoring data	Data about the operation of tenant-level Azure services, such as Azure Active Directory.

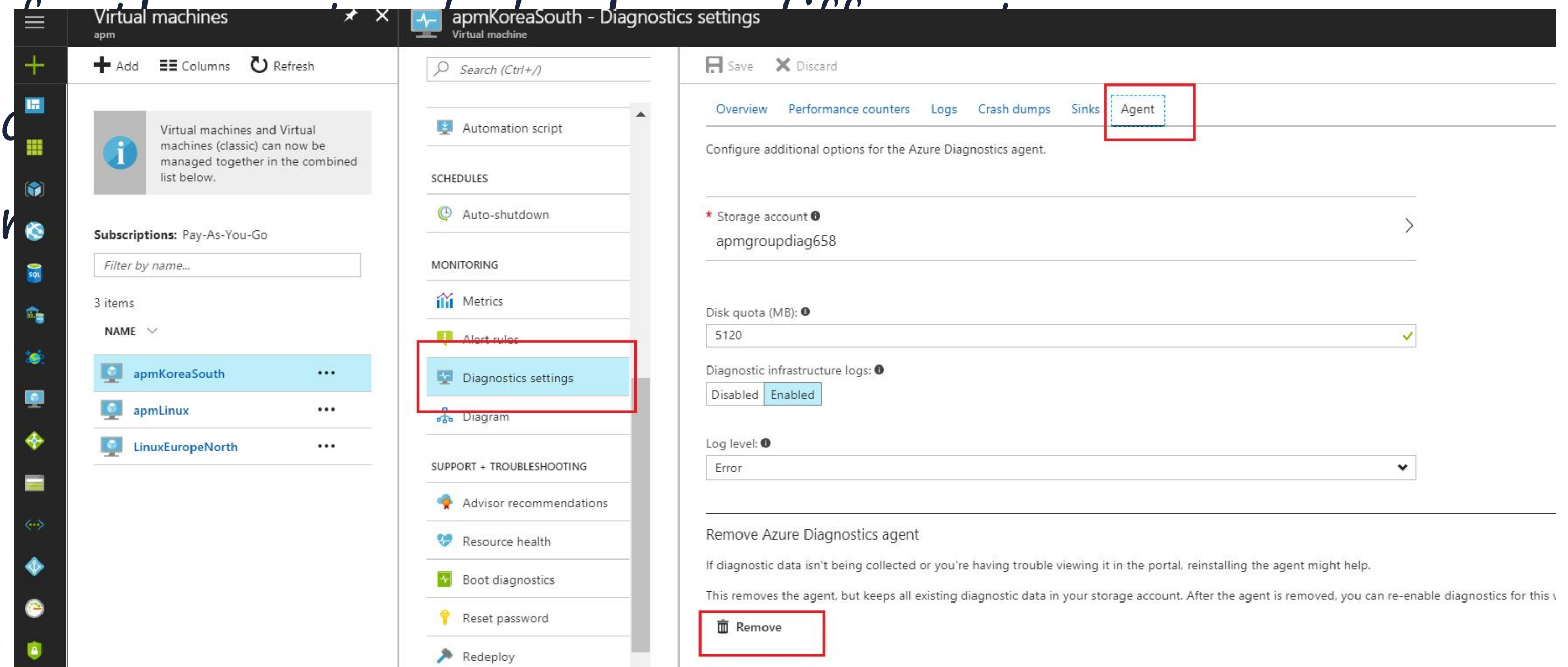
Diagnostic settings



Azure Monitor starts collecting data once resources are being added.

The data collected can be configured. The diagnostics settings can be configured for:

- Enable guest-level monitoring
- Performance counters
- Event Logs
- Crash Dumps
- Sinks
- Agent



Getting more data from your

apps
Azure Monitor includes several features and tools that can provide insights on applications and other resources the applications depend on.

Features include:

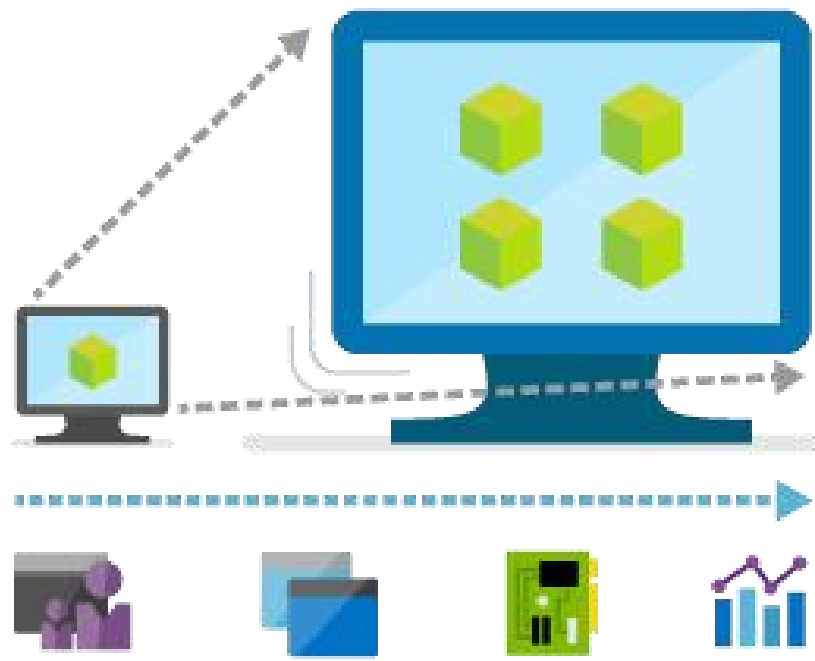
- Application Insights – monitors the availability, performance, and usage of web applications
- Azure Monitor for containers – Monitor performance of container workloads
- Azure Monitor for VMs – Monitor Azure VMs at sca



Responding to alert conditions



- Alerts
 - Azure Monitor will alert the organization on critical conditions and might also attempt to take corrective actions.
- Autoscale
 - Azure Monitor ensures the organization to have the correct amount of resources running to manage the load on their application effectively.

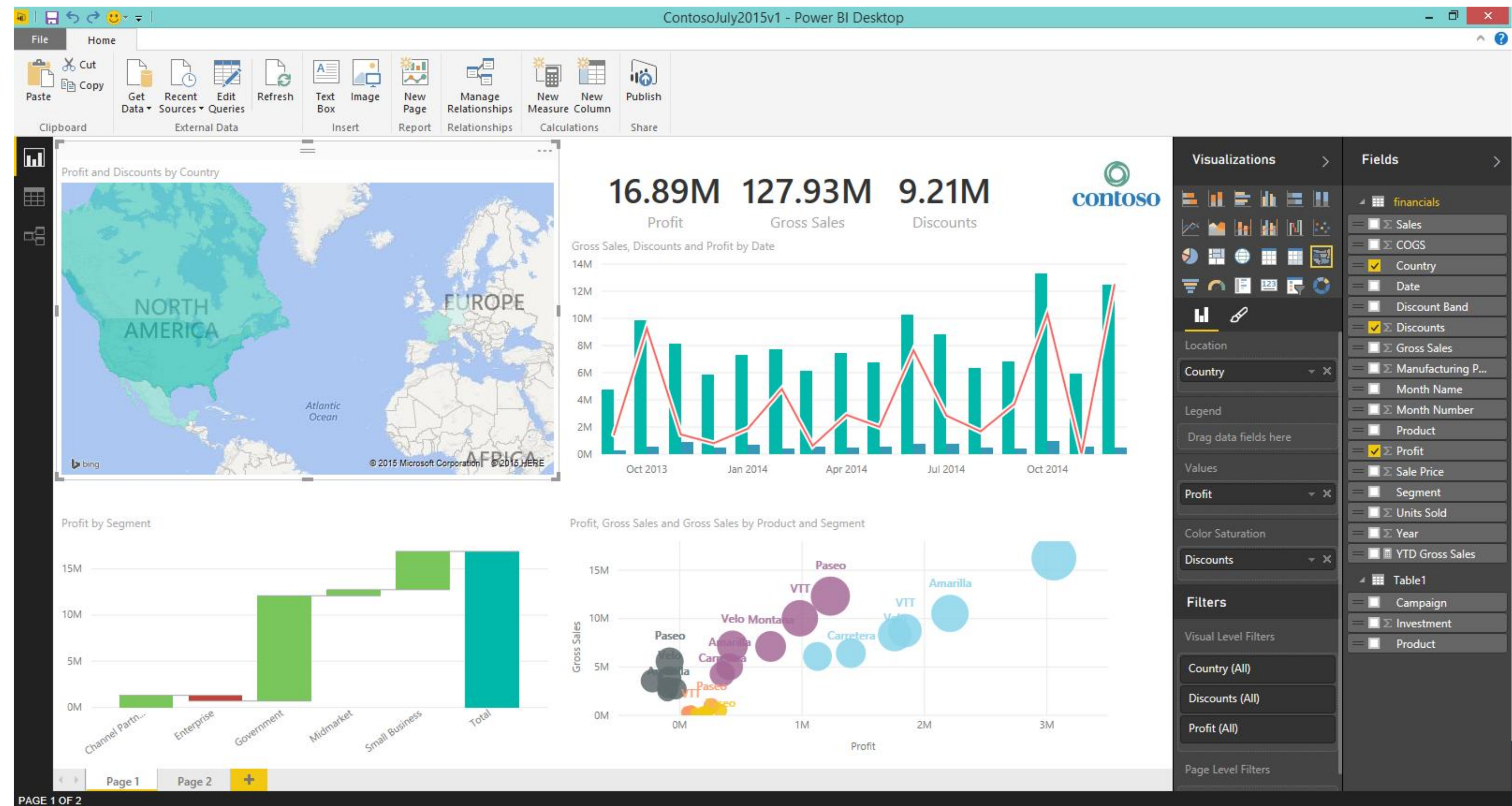


Visualize monitoring data



Azure Monitor comes with the features of visualizing monitoring data which includes:

- Dashboards
- Views
- Power BI

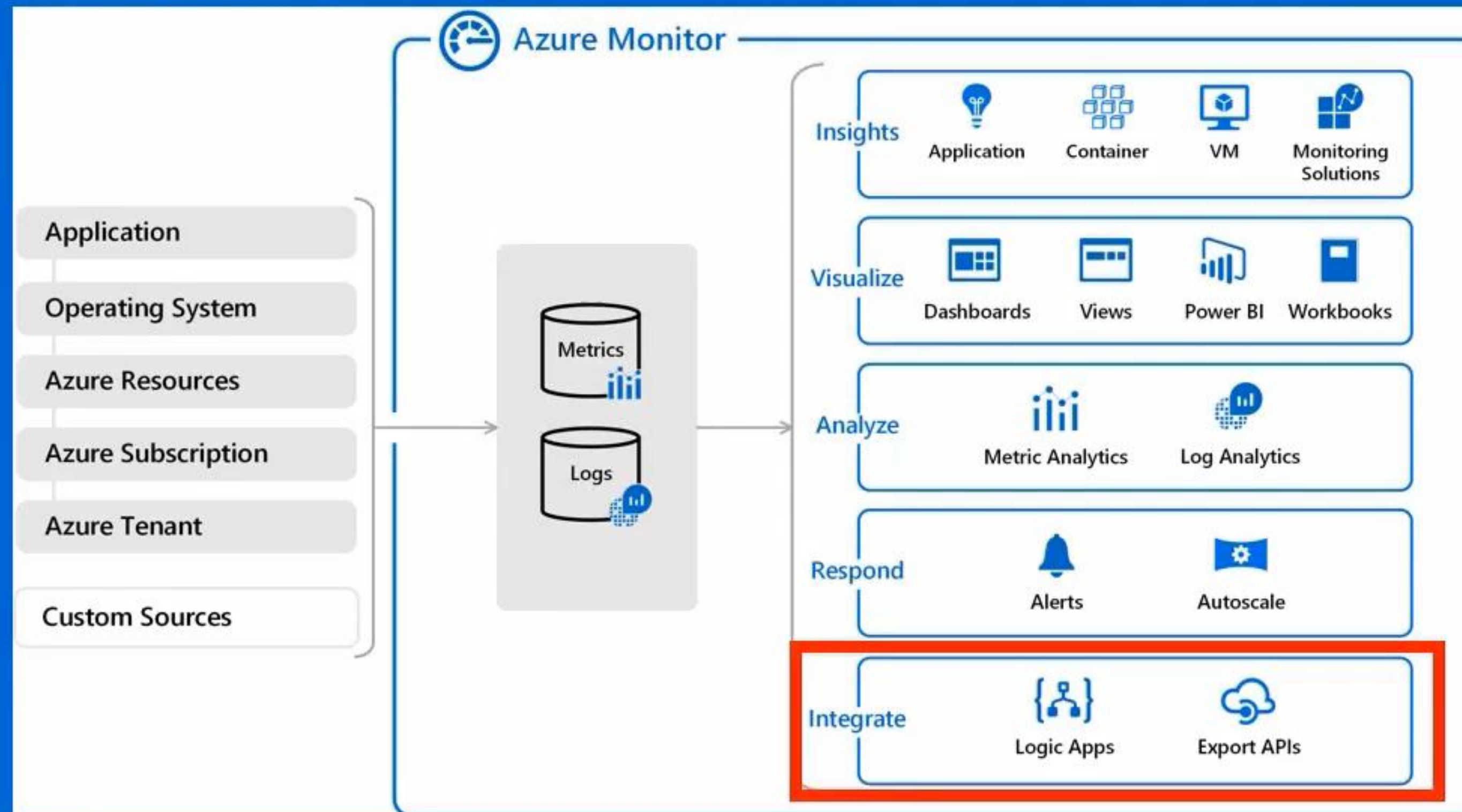


Azure Monitor



Azure Monitor Demo

Azure Monitor



Azure Service Health



- A suite of experiences that provide personalized advice and assistance when Azure services affect you.
- Includes:
 - Notifying you
 - Help you understand the impact of issues
 - Update on the status of issue

Views of Azure Service



Health

- **Azure Status**
 - Provides an overview on health state of all Azure services.
- **Service Health**
 - Provides a customizable dashboard that can track the state of Azure services and active events.
 - Can be used to create and manage service Health alerts.
- **Resource Health**
 - Diagnose and receive assistance when an Azure service issue is affecting resources.
 - Provides details about the state of resources and technical support.



Azure Service Health

Azure Service Health



Azure Service Health Demo

The screenshot shows the Azure Service Health dashboard in a web browser. The browser's address bar displays the URL `https://status.azure.com/en-us/status`. The page header includes the Microsoft Azure logo, a 'My account' link, and a 'Portal' link. The main heading is 'Azure status', with a subtext 'Last updated 39 seconds ago' and an RSS feed icon. Below this, a section titled 'View other issues that may be impacting your services:' contains a blue button labeled 'Go to Azure Service Health >'. To the right, under 'HELPFUL LINKS', there are links for 'Status history & Root Cause Analysis (RCAs)', 'Set up automatic service health alerts', and 'Service Level Agreements (SLAs)'. A 'Refresh every' dropdown menu is set to '2 minutes'. A legend indicates status levels: Good (green checkmark), Information (blue 'i'), Warning (orange triangle), and Critical (red 'x'). A horizontal navigation bar shows tabs for 'Americas', 'Europe', 'Asia Pacific', 'Middle East and Africa', 'Azure Government' (which is selected), and 'Azure China'. Below the 'Azure Government' tab, a table lists various products and services, including 'US GOV NON-REGIONAL', 'US GOV VIRGINIA', 'US GOV IOWA', 'US GOV ARIZONA', 'US GOV TEXAS', 'US DOD EAST', and 'US DOD CENTRAL'. The Windows taskbar is visible at the bottom of the browser window.

Azure status

Last updated 39 seconds ago

View other issues that may be impacting your services:

[Go to Azure Service Health >](#)

HELPFUL LINKS

- [Status history & Root Cause Analysis \(RCAs\)](#)
- [Set up automatic service health alerts](#)
- [Service Level Agreements \(SLAs\)](#)

Refresh every

2 minutes

Good Information Warning Critical

Americas Europe Asia Pacific Middle East and Africa **Azure Government** Azure China

PRODUCTS AND SERVICES	*US GOV NON-REGIONAL	US GOV VIRGINIA	US GOV IOWA	US GOV ARIZONA	US GOV TEXAS	US DOD EAST	US DOD CENTRAL

Summary

In this chapter, you've learn about:

- Azure governance methodologies*
- Monitoring and reporting in Azure*
- Privacy, compliance, and data protection standards in Azure*



Check your knowledge

1. True or false: You can download published audit reports and other compliance-related information related to Microsoft's cloud service from the Service Trust Portal

- ☐ True
- ☐ False

2. Which Azure service allows you to configure fine-grained access management for Azure resources, enabling you to grant users only the rights they need to perform their jobs?

- ☐ Locks
- ☐ Policy
- ☐ Initiatives
- ☐ Role-based Access Control

3. Which Azure service allows you to create, assign, and, manage policies to enforce different rules and effects over your resources and stay compliant with your corporate standards and service-level agreements (SLAs)?

- ☐ Azure Policy
- ☐ Azure Blueprints
- ☐ Azure Security Center
- ☐ Role-based Access Control

Check your knowledge

4. Which of the following services provides up-to-date status information about the health of Azure services?

- ☐ Compliance Manager
- ☐ Azure Monitor
- ☐ Service Trust Portal
- ☐ Azure Service Health

5. Where can you obtain details about the personal data Microsoft processes, how Microsoft processes it, and for what purposes?

- ☐ Microsoft Privacy Statement
- ☐ Compliance Manager
- ☐ Azure Service Health
- ☐ Trust Center

Answer

1. True or false: You can download published audit reports and other compliance-related information related to Microsoft's cloud service from the Service Trust Portal

☒ True



You can download published audit reports and other compliance-related information related to Microsoft's cloud service from the Service Trust Portal.

☐ False

2. Which Azure service allows you to configure fine-grained access management for Azure resources, enabling you to grant users only the rights they need to perform their jobs?

☐ Locks

☐ Policy

☐ Initiatives

☒ Role-based Access Control



Role-based access control (RBAC) provides fine-grained access management for Azure resources, enabling you to grant users only the rights they need to perform their jobs. RBAC is provided at no additional cost to all Azure subscriber.

3. Which Azure service allows you to create, assign, and, manage policies to enforce different rules and effects over your resources and stay compliant with your corporate standards and service-level agreements (SLAs)?

☒ Azure Policy



Azure Policy is a service in Azure that you use to create, assign, and, manage policies. These policies enforce different rules and effects over your resources, so those resources stay compliant with your corporate standards and service-level agreements (SLAs).

☐ Azure Blueprints

☐ Azure Security Center

☐ Role-based Access Control

Answer

4. Which of the following services provides up-to-date status information about the health of Azure services?

- ☐ Compliance Manager
- ☐ Azure Monitor
- ☐ Service Trust Portal
- ☒ Azure Service Health

Azure Service Health is the correct answer, because it provides you with a global view of the health of Azure services. With Azure Status, a component of Azure Service Health, you can get up-to-the-minute information on service availability.

5. Where can you obtain details about the personal data Microsoft processes, how Microsoft processes it, and for what purposes?

- ☒ Microsoft Privacy Statement

You can obtain the details about how Microsoft uses personal data in the Microsoft Privacy Statement.

- ☐ Compliance Manager
- ☐ Azure Service Health
- ☐ Trust Center



Thanks!

