

# **DELL APEX Cloud Platform for Microsoft Azure User Guide**

Home » Dell » DELL APEX Cloud Platform for Microsoft Azure User Guide 🖫

#### **Contents**

- 1 DELL APEX Cloud Platform for Microsoft
- **Azure**
- **2 Product Specifications**
- **3 Product Usage Instructions**
- 4 FAQ
- **5 Introduction**
- 6 What data is collected
- 7 Single Cluster Workbook
- 8 Multi Cluster Workbook
- 9 Documents / Resources
  - 9.1 References



**DELL APEX Cloud Platform for Microsoft Azure** 



### **Product Specifications**

• Product: Dell APEX Cloud Platform for Microsoft Azure

• Nodes: MC (multicloud) nodes

• Software: Dell APEX Cloud Platform Foundation Software

• Integration: Microsoft Windows Admin Center

# **Product Usage Instructions**

#### **Enabling Event Monitoring Feature**

- 1. Complete the prerequisites for monitoring Azure Stack HCI features.
- 2. Enable the Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure feature by following the instructions in the manual.
- 3. Select the feature name "Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure" from the Overview tab to open the workbook.

#### **Data Collection**

Once the Event Monitoring feature is enabled, Insights will start collecting data from the following source:

- Data Source: Custom Windows Event Channel
- Data: Microsoft-Windows-Hyper-V-Dell-APEXCP/Admin

#### **Workbook Structure**

The workbook for Event Monitoring consists of two tabs:

- Overview Tab: Provides a brief description of the workbook.
- Health Tab: Organized into three sections Overview, Nodes, and Alerts. Each section visually represents

events across the selected cluster with data scoped to the chosen time range.

#### **Health Tab Sections:**

- Time Range Drop-down Menu: Allows selecting a specific time range to display events on all MC nodes for that period.
- 2. **Overview:** Displays tiles showing the number of events by severity (Critical, Warning, Information) for all MC nodes within the selected time range.

#### **FAQ**

- What data is collected by the Event Monitoring feature?
  - The Event Monitoring feature collects event data from MC nodes and Cloud Platform Manager VM running on a Dell APEX Cloud Platform for Microsoft Azure cluster.

#### Introduction

#### **Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure**

Dell APEX Cloud Platform for Microsoft Azure is a turnkey on-premises infrastructure platform collaboratively engineered between Dell and Microsoft to optimize Azure hybrid cloud operations. This platform empowers organizations to unlock innovation through extensive integrations, automation, and a consistent Azure experience across their IT environments.

On each Dell APEX Cloud Platform for Microsoft Azure, cluster nodes are referred to as MC (multicloud) nodes. Additionally, each cluster runs the Dell APEX Cloud Platform Foundation Software in a Cloud Platform Manager VM. This software is responsible for communicating with the underlying infrastructure and integrating automation workflows into Microsoft Windows Admin Center.

You can visualize event and informational event data generated by the MC node hardware and the Cloud Platform Manager VM using an Insights for Azure Stack HCI workbook. You simply need to enable the Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure feature.

Follow these steps to enable the Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure feature. This feature is only available for **Dell APEX Cloud Platform for Microsoft Azure**:

- 1. You must complete the <a href="Prerequisites">Prerequisites</a> before you can use Insights for monitoring Azure Stack HCI features.
- 2. Enable the Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure feature. For instructions, see <a href="Enable-monitoring for a feature">Enable monitoring for a feature</a>.
- Select the feature name Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure from the Overview tab to open the workbook.

Once Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure feature is enabled for a cluster you will have access to the Multi Cluster workbook, which provides the capability to monitor the fleet of clusters where Event Monitoring feature is enabled.

#### What data is collected

Once you enable the Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure feature, Insights starts collecting the following data:

Data Source	Data
Custom Windows Event Channel	Microsoft-Windows-Hyper-V-Dell-APEX- CP/Admin

The Microsoft-Windows-Hyper-V-Dell-APEX-CP/Admin custom windows event channel collects event data from the MC nodes and Cloud Platform Manager VM running on a Dell APEX Cloud Platform for Microsoft Azure cluster.

# Single Cluster Workbook

 The workbook for Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure consists of two tabs, as described below.

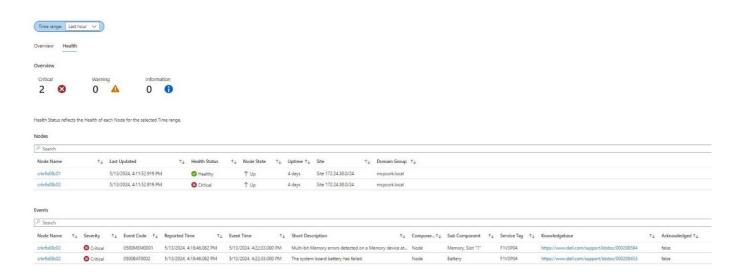
#### **Overview Tab**

This tab provides a brief description of the workbook.



#### **Health Tab**

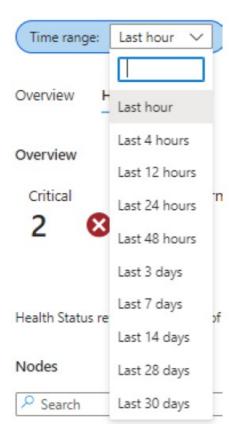
This tab is organized into three sections: Overview, Nodes and Alerts. Each section gives a visual representation that highlights the collective events occurring across the selected Dell APEX Cloud Platform for Microsoft Azure cluster. The data displayed in each section will be scoped to the selected time range.



#### Time Range drop-down menu

• Allows the user to select a specific time range to show the events that occurred on all the MC nodes for the

cluster for that period.



#### Overview

• Displays tiles showing the number of events by severity (Critical, Warning and Information) for all the MC nodes within the selected time range.



# **Nodes**

- The Nodes section displays a grid showing the health status and other relevant information for each MC node in the cluster.
- The Search bar can be used to filter the information based on a given search term.



Column	Description
Cluster Name	Name of the Cluster
Node Name	Name of the Node
Last Updated	Time when node was last contacted
Health Status	Health Status reflects the health of each Node for the selected time range (Critical, Warning, Information, Healthy)
Node State	State of the Node (Up, Down, In maintenance, Joining)
Uptime	Uptime for the Node
Site	Site Details
Domain Group	Domain Group

# **Events**

The Events section displays a grid showing information on all the events generated by all MC nodes in the cluster during the selected time range.



Column	Description
Node Name	Name of the Node
Severity	Severity of the Event (Critical, Warning, Info)
Event Code	Code for the Event
Reported Time	Time of the Event Reported to the Azure Portal
Event Time	Time of the Event
Short Description	Short Description for the Event
Component	Component on which the Event occurred (Cluster, Node, Connectivity,,,)
Sub Component	Sub component on which the Event occurred (CPU, Memory, Disk)
Service Tag	Service Tag
Knowledgebase	KB article link if available

# **Multi Cluster Workbook**

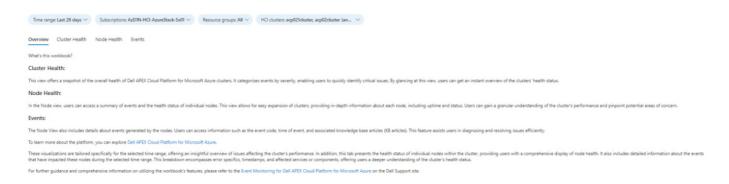
The Multi Cluster workbook for Event Monitoring for Dell APEX Cloud Platform for Microsoft Azure consists of four tabs, as described below.

Acknowledgement status of the Event (true, false)

# **Overview Tab**

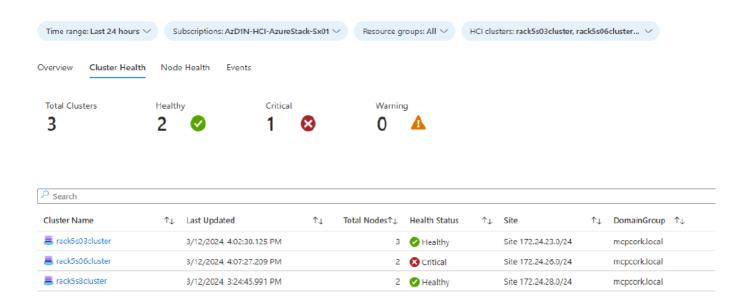
Acknowledged

• This tab provides a brief description of the workbook.



#### **Cluster Health Tab**

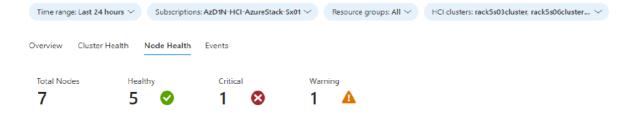
This tab is organized into two sections: Overview and Cluster. Each section gives a visual representation that highlights the collective events occurring across all the Dell APEX Cloud Platform for Microsoft Azure clusters. The data displayed in each section will be scoped to the selected time range, allowing you to focus on the desired timeframe.



Column	Description
Cluster Name	Name of the Cluster
Last Updated	Time when the Cluster was last contacted
Total Nodes	Total Number of nodes in the Cluster
Health Status	Health Status reflects the health of cluster for the selected time range (Critical, Warning, Information, Healthy)  Note: When using the Health Status, it's important to keep in mind that the displayed status can show Critical or Warning within the selected time range, even if the event has been cleared by a subsequent Clear info even t. This occurs because the workbook provides a snapshot of past events. You need to take into account any subsequent Clear events that may have occurred after the selected time range
Site	Site Details
Domain Group	Domain Group

# **Node Health Tab**

This tab is organized into two sections: Overview and Node, in this view the cluster can be expanded to view the overview of events on all the nodes within the cluster. Each section gives a visual representation that highlights the collective events occurring across all the Dell APEX Cloud Platform for Microsoft Azure cluster. The data displayed in each section will be scoped to the selected time range.



Expand a cluster to see the health of individual nodes

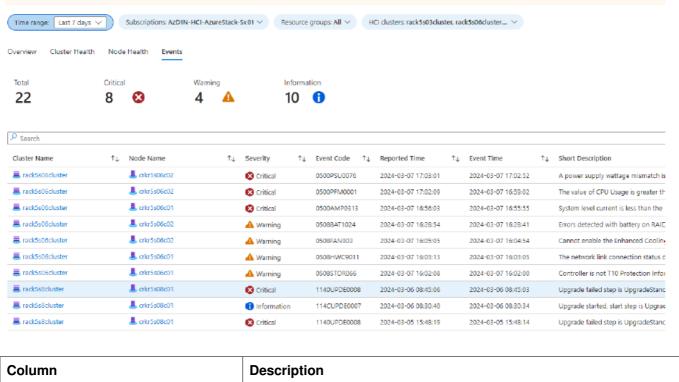
Search											
Cluster > Node	$\uparrow_{\downarrow}$	Last Updated	$\uparrow \downarrow$	Health Status $\uparrow_{\downarrow}$	Node State	$\uparrow_{\downarrow}$	Uptime ↑↓	Site	$\uparrow \downarrow$	DomainGroup ↑↓	Į.
✓ <b>■</b> rack5s03cluster		3/12/2024, 4:02:30.125 PM		✓ 3 Healthy	3 of 3 up						
crkr5s03c01		3/12/2024, 4:02:30.125 PM		✓ Healthy	↑ Up		8 days	Site 172.24.23.0/24		mcpcork.local	
crkr5s03c02		3/12/2024, 4:02:30.125 PM		✓ Healthy	↑ Up		8 days	Site 172.24.23.0/24		mcpcork.local	
₫ crkr5s03c03		3/12/2024, 4:02:30.125 PM		<b>♥</b> Healthy	↑ Up		8 days	Site 172.24.23.0/24		mcpcork.local	
>   rack5s06cluster		3/12/2024, 4:07:27.209 PM		😵 1 Critical, 1 Warning	2 of 2 up						
>   rack5s8cluster		3/12/2024, 3:24:45.991 PM		✓ 2 Healthy	2 of 2 up						

Column	Description
Cluster>Node	Name of the Cluster and Node
Last Updated	Time when node was last contacted
Health Status	Health Status reflects the health of each Node for the selected time range (Critical, Warning, Information, Healthy)
Node State	State of the Node (Up, Down, In maintenance, Joining)
Uptime	Uptime for the Node
Site	Site Details
Domain Group	Domain Group

# **Event Tab**

This tab is organized into two sections: Overview and Events, the details about the event can be seen in the event

section. Each section gives a visual representation that highlights the collective events occurring across all the Dell APEX Cloud Platform for Microsoft Azure cluster. The data displayed in each section will be scoped to the selected time range.



Column	Description
Cluster Name	Name of the Cluster
Node Name	Name of the Node

Severity Severity of the Event (Critical, Warning, Info)  Event Code Code for the Event  Reported Time Time of the Event Reported to the Azure Portal  Event Time Time of the Event  Short Description Short Description for the Event  Component Component on which the Event occurred (Cluster, Node, Connectivity, )  Sub Component Sub component on which the Event occurred (CPU, Memory, Disk)  Service Tag Service Tag  Knowledgebase KB article link if available  Acknowledged Acknowledgement status of the Event (true, false)		
Reported Time Time of the Event Reported to the Azure Portal  Event Time Short Description Short Description for the Event  Component Component on which the Event occurred (Cluster, Node, Connectivity, )  Sub Component Sub component on which the Event occurred (CPU, Memory, Disk)  Service Tag Service Tag  Knowledgebase KB article link if available	Severity	Severity of the Event (Critical, Warning, Info)
Event Time Time of the Event  Short Description Short Description for the Event  Component Component on which the Event occurred (Cluster, Node, Connectivity, )  Sub Component Sub component on which the Event occurred (CPU, Memory, Disk)  Service Tag Service Tag  Knowledgebase KB article link if available	Event Code	Code for the Event
Short Description  Component  Component  Sub compon	Reported Time	Time of the Event Reported to the Azure Portal
Component Component on which the Event occurred (Cluster, Node, Connectivity, )  Sub Component Sub component on which the Event occurred (CPU, Memory, Disk)  Service Tag  Knowledgebase KB article link if available	Event Time	Time of the Event
Sub Component  Sub Component  Sub component on which the Event occurred (CPU, Memory, Disk)  Service Tag  Knowledgebase  KB article link if available	Short Description	Short Description for the Event
Service Tag  Knowledgebase  KB article link if available	Component	Component on which the Event occurred (Cluster, Node, Connectivity,,,
Knowledgebase KB article link if available	Sub Component	Sub component on which the Event occurred (CPU, Memory, Disk)
	Service Tag	Service Tag
Acknowledged Acknowledgement status of the Event (true, false)	Knowledgebase	KB article link if available
	Acknowledged	Acknowledgement status of the Event (true, false)

# **Documents / Resources**



# **DELL APEX Cloud Platform for Microsoft Azure** [pdf] User Guide

APEX Cloud Platform for Microsoft Azure, Cloud Platform for Microsoft Azure, Platform for Microsoft Azure, Microsoft Azure, Azure

# References

• User Manual

#### Manuals+, Privacy Policy

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