NTT DATA (logo)

Updated: March 21, 2024

Tutorial for NTT DATA Enterprise Dashboard Setup

The NTT DATA Enterprise Dashboard is a focused and organized view of enterprise level Hybrid Cloud resources with their performance in the Azure portal. This persona-based IT Operations Management (ITOM) dashboard is a workspace where individuals responsible for cloud operations can monitor resources across hybrid cloud environments (Azure Cloud, AWS Cloud, GCP, other clouds, on-premises infrastructure, etc.) to see vital signs and status as well as to identify issues quickly and easily. By default, this dashboard has fully integrated with Azure Monitor, Microsoft Defender for Cloud and Azure services with available backend integration functions from Azure services. When you need to monitor multi-cloud and on premises servers and resources, please follow prerequisites below to set up related connections and agents with necessary customization.

Prerequisites

To use NTT DATA Enterprise Dashboard, you will need to have following required environment and enabled services before installing this dashboard:

- A Microsoft Azure Cloud subscription. For multi-cloud monitoring, e. g. Azure, AWS and GCP, the Azure Commercial (Public) Cloud subscription is required to set up the related connections with multi-cloud systems for log collection. Note: Azure Commercial (Public) Cloud all regiones in US are FedRAMP High certified since May 2019.
- If you only need to monitor Azure GovCloud without any other cloud, this dashboard can be installed in Azure GovCloud. Since Azure GovCloud has more restrictions and limitations in services and connectivity with other clouds, we do not recommend using Azure GovCloud for Hybrid Cloud monitoring.
- Azure Log Analytics workspaces need to be enabled, where you need to have an Azure Administrator access role. See more info at https://learn.microsoft.com/en-us/azure/azure-monitor/logs/quick-create-workspace?tabs=azure-portal
- If you only need to monitor Azure Commercial (Public) Cloud or Azure GovCloud, there is no need to deploy any Azure Monitor agents since Azure Cloud resources are already integrated with Azure Monitor, Defender for Cloud, and related log system. The Azure Administrator just needs to turn on required Azure monitoring for all VMs, Kubernetes and Containers, backup jobs, storage, networks, Azure Application Insights for applications, databases, disaster recovery services, Azure Virtual Desktops, etc.
- If you need to monitor multi-clouds in addition to Azure, such as AWS, GCP and on-premises, you will need to deploy required Azure Monitor Agents and Microsoft Defender for Cloud connectors with Azure Arc to AWS cloud, GCP cloud and on-premises related servers and integrate their log system with Azure Log Analytics with Microsoft Azure provided Log Ingestion API. Here are some related references:
  - o Multi-cloud monitoring with Azure Monitor: https://learn.microsoft.com/en-us/azure/azure-monitor/best-practices-multicloud
  - o Azure Monitor Agent in Defender for Cloud: https://learn.microsoft.com/en-us/azure/defender-for-cloud/auto-deploy-azure-monitoring-agent
  - o Azure Monitor Agents: https://learn.microsoft.com/en-us/azure/azure-arc/servers/agent-overview
  - o Azure Monitor Agents with Arc are free to install https://learn.microsoft.com/en-us/azure/azure-monitor/agents/azure-monitor-agent-manage?tabs=azure-portal
  - o How to connect AWS Account with Microsoft Defender for Cloud: https://learn.microsoft.com/en-us/azure/defender-for-cloud/quickstart-onboard-aws

     ○   Tutorial: Send data to Azure Monitor Logs with Logs ingestion API:
https://learn.microsoft.com/en-us/azure/azure-monitor/logs/tutorial-logs-ingestion-portal

- ==Please contact us using the associated "Contact Me" function found on the Azure Marketplace offer and we will work with you to get you the information you need and the dashboard JSON ARM File for deployment.==

- ==If you need support in related agent deployment, log system integration or customization of dashboard screens and display, please feel free to contact the NTT DATA team. NTT DATA team can provide related assessment for your environment to estimate the effort based on your requirement and sign a SOW. Engagement scope typically varies based on the volume of agents to install, the complexity of the log system integration and the degree of dashboard customization needed.==

Dashboard JSON ARM File deployment

After all required monitor functions turned on for all VMs, Kubernetes, backup, storage, networks, applications, databases, disaster recovery services, and all related monitoring agents installed in multi-clouds, Microsoft Defender for Cloud is fully configured in service, please wait at least 12 to 24 hours to make sure required monitoring data get in Azure Log Analytics workspaces, then start install this dashboard.

There are two options to import Dashboard JSON file:

Option # 1: Deploy ARM Template

1. From the Azure portal, use to search bar at the top of the screen to navigate to **Deploy a custom template**.
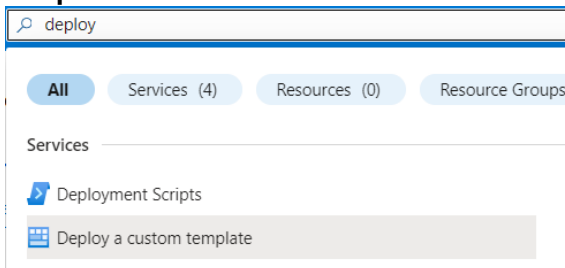
2. Click **Build your own template in the editor**.

Home >

Custom deployment   ...
Deploy from a custom template

Select a template   Basics   Review + create

Automate deploying resources with Azure Resource Manager templates in a single, coordinated operation. Create or select a template below to get started. Learn more about template deployment ⧉

✎ Build your own template in the editor

Common templates

🖥 Create a Linux virtual machine

🖥 Create a Windows virtual machine

🌐 Create a web app

🗄 Create a SQL database

📄 Azure landing zone

Start with a quickstart template or template spec

Template source ⓘ   ⦿ Quickstart template
                        ◯ Template spec

Quickstart template (disclaimer) ⓘ   [⌄]

3. Click **Load file** and select the **NTT DATA Enterprise Dashboard.json** file.

Home > Custom deployment >

Edit template   ...   ✕
Edit your Azure Resource Manager template

➕ Add resource   ↑ Quickstart template   ⬆ Load file   ⬇ Download

```
1   {
2     "contentVersion": "1.0.0.0",
3     "parameters": {
4       "workbookDisplayName": {
5         "type": "string",
6         "defaultValue": "NTT DATA Enterprise Dashboard",
7         "metadata": {
8           "description": "The friendly name for the workbook that
       is used in the Gallery or Saved List.  This name must be unique
       within a resource group."
9         }
10      },
11      "workbookType": {
```

> ⚙ Parameters (4)
  📄 Variables (0)
∨ ⚙ Resources (1)
    📈 [parameters('workbookId')]
       (microsoft.insights/workbooks)

[**Save**] [Discard]

4. Click **Save** at the bottom of the screen.
5. Select the **Subscription** and **Resource group** where the workbook will be deployed.

Home >

Custom deployment   ...
Deploy from a custom template

Select a template   **Basics**   Review + create

Template

🖥 Customized template ⧉   ✎   ✎   🔗
   1 resource   Edit template   Edit parameters   Visualize

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ   [⌄]

  Resource group * ⓘ   [⌄]
                           Create new

Instance details

Region * ⓘ   [✓]

[Previous] [Next] [**Review + create**]

6. Click **Review + create**.
7. Click **Create**.

Option # 2: Deploy Gallery Template

1. Navigate to **Monitor** in the Azure Portal
2. Select **Workbooks**.

3. Click **+New**.
4. Select Advanced Editor (</>)

Home > Monitor

Monitor | Workbooks 📌
Microsoft

🔍 Search (Ctrl+/)   «

⊘ Overview

▢ Activity log

▣ Alerts

📊 Metrics

📒 Logs

♡ Service Health

📈 Workbooks

📈 Workbooks   ▢ Done Editing   ☐ 💾 🗐 ⚙️ ✏️ ∨ ↻ ☁️ 📌 </> ☺ ? Help

This Workbook has no content.

Use the add button below to add items.

+ Add ∨

5. Paste the contents of the **NTT DATA Enterprise Dashboard.workbook** file into the Gallery Template section.
6. Click **Apply**.

📈 Workbooks   ▢ Done Editing   💾 🗐 ⚙️ ✏️ ∨ ↻ ☁️ 📌 </> ☺ ? Help

Template Type ⓘ

(**Gallery Template** ARM Template)   ↓ | ✓ Apply

```
{
    "version": "Notebook/1.0",
    "items": [
        {
            "type": 9,
            "content": {
                "version": "KqlParameterItem/1.0",
                "parameters": [
                    {
                        "id": "1db5ee15-fe52-458b-91d1-7ee39d8c2cd3",
                        "version": "KqlParameterItem/1.0",
                        "name": "Subscriptions",
                        "type": 6,
                        "isRequired": true,
```

7. Click the **Save** and **Done Editing** buttons.

📈 Workbooks   ▢ Done Editing   💾 🗐 ⚙️ ✏️ ∨ ↻ ☁️ 📌 </> ☺ ? Help

Dashboard Customization and Integration

Hybrid Cloud environments are more complicated than a single Azure cloud account. For example, each client environment may have installed different 3rd party COTS tools for system monitoring. In some cases, simply installing the dashboard and deploying required agents to multi-cloud may be insufficient. Some environments may require the dashboard screen customization to present client monitoring items and services from legacy monitoring tools. To support client-specific performance graphics and data in multi-clouds and hybrid-clouds, the NTT DATA team offers related client environment assessments as well as related backend integration and dashboard customization based on client needs. To engage this service, please feel free to contact the NTT DATA team.