

Reliability Workbook

This workbook focusses on the Reliability pillar of the Azure Well-Architected Framework and provides insights into the reliability aspects deployed in Azure subscriptions.

User needs to import the Azure Monitor workbook available in this repository, the detailed instructions have been provided under Import Workbook section.

User needs to have at least [Workbook Contributor](#) access to import the workbook and [Monitoring Reader](#) to have access to monitoring information.

Note

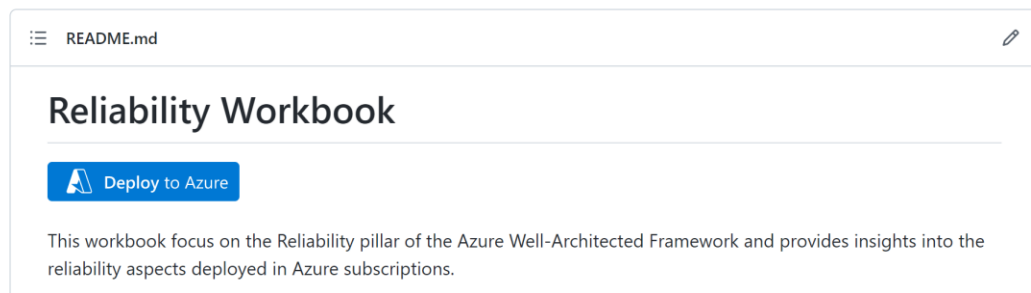
- Azure Security Center with Azure Defender is required for VM backup information.
- VMs have to be running for disk information to be available.

Import Workbook

There are two ways to import the workbook. First and easy way is to leverage “Deploy to Azure” feature available on this repository. The second alternate approach is to manually import the workbook Json object into the new workbook template.

Option 1: Deploy directly from GitHub

1. Navigate to the root of the repository and spot the “Deploy to Azure” option and click to start the deployment



2. This will initiate a custom ARM deployment in Azure portal where we can customize deployment options like Subscription, Resource Group, Region and Display Name of the workbook. The Workbook Id field can be left unchanged so that it can autogenerate new GUID.
3. Review and submit the deployment. This will create the workbook under the chosen subscription and resource group. Navigate to Azure monitor workbook section or directly to the resource group to open new workbook. Pick right environment “Azure” for public cloud and “Azure Government” for Government cloud customers

Home >

Custom deployment

Deploy from a custom 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 * internal-samanoth-fta

Resource group * Create new

Instance details

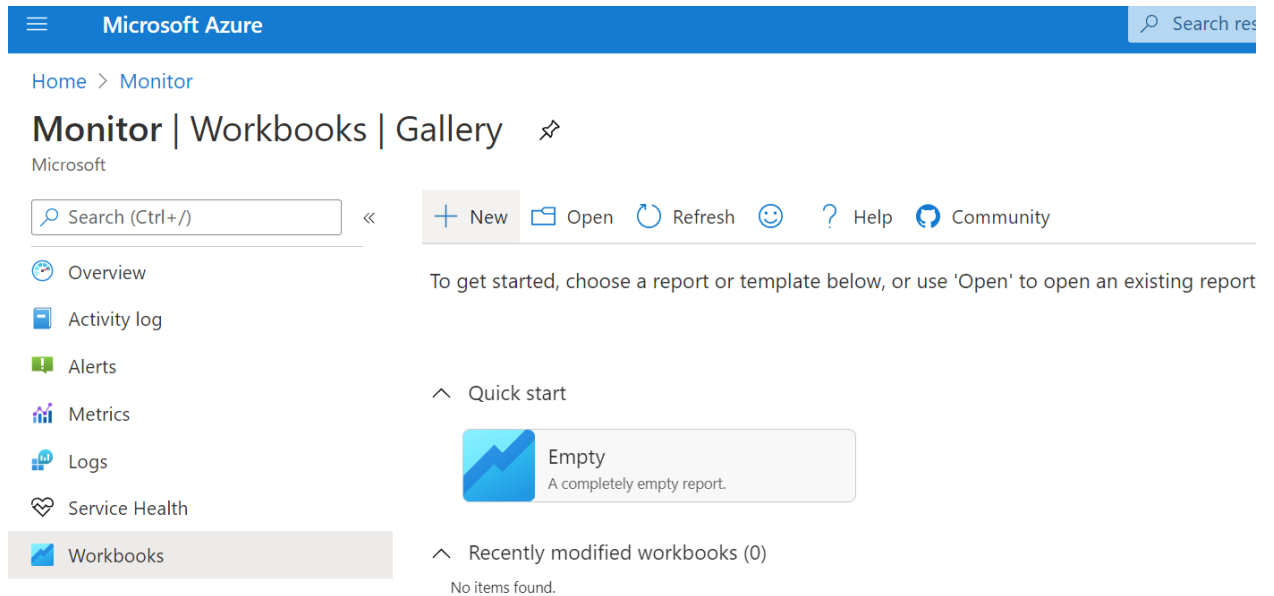
Region * Southeast Asia

Workbook Display Name FTA - Reliability Workbook

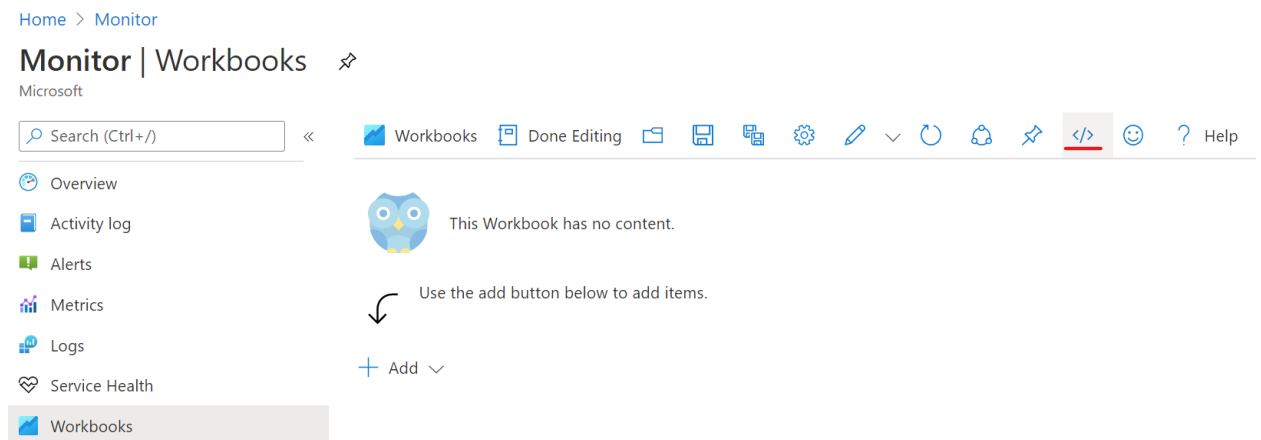
Workbook Id [newGuid()]

Option 2: Manually import Workbook Json file

1. Navigate to Monitor in the Azure Portal and workbooks section
2. Click “New” to create new blank workbook



3. Choose Advanced Editor (</>) to edit the workbook.



4. Paste json from “workbooks/ReliabilityWorkbook.json” into Gallery Template.

Home > Monitor

Monitor | Workbooks

Microsoft

Search (Ctrl+ /)

Overview

Activity log

Alerts

Metrics

Logs

Service Health

Workbooks

Insights

Applications

Virtual Machines

Storage accounts

Containers

Networks

Azure Cosmos DB

Key Vaults

Azure Cache for Redis

Insights Hub

Settings

Dagnostic settings

Data Collection Rules

Autoscale

Private Link Scopes

Support + Troubleshooting

Workbooks

Done Editing

Shown below is a JSON representation of the current item.
Any changes you make here will be reflected when you press apply.

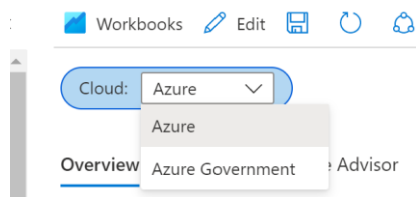
Template Type

Gallery Template

ARM Template

```
{
  "type": 12,
  "content": {
    "version": "NotebookGroup/1.0",
    "groupType": "editable",
    "items": [
      {
        "type": 9,
        "content": {
          "version": "KqlParameterItem/1.0",
          "crossComponentResources": [
            "{Subscriptions}"
          ],
          "parameters": [
            {
              "id": "100d329a-08a8-4027-85e7-635f580ad68f",
              "version": "KqlParameterItem/1.0",
              "name": "Subscriptions",
              "type": 6,
              "isRequired": true,
              "multiSelect": true,
              "quote": "",
              "delimiter": ",",
              "value": [
                "value::all"
              ],
              "typeSettings": {
                "additionalResourceOptions": [
                  "value::all"
                ],
                "includeAll": true,
                "showDefault": false
              }
            }
          ]
        }
      }
    ]
  }
},
```

5. Click Apply to load the workbook from the gallery template.
6. Click "Done Editing" and click "Save" icon to save the workbook
7. Pick the right cloud environment - "Azure" for public cloud and "Azure Government" for Government cloud tenants



Report Exports

NOTE: Select the right filters for "Cloud", "Subscriptions", "Resource Groups", "Environment" and "Tag Name/Tag Value" to pick the right scope for this Reliability Engagement.

1. Summary by Resource Type and Environment

Navigate to "Export" tab of the report and click the download button highlighted below for "Summary by Resource Type and Environment" table.

Cloud: Azure Subscriptions: internal-samanoh-fts

Resource Group: All Environment: All Tag Name: sunset Tag Value: sunset

Overview Summary Azure Advisor Azure Site Recovery Compute Containers Databases Integration Networking Storage Web **Export**

Summary by Resource Type and Environment

Search

Subscription	Environment	Resource Total	Regular SKU	Development SKU	Shared SKU	Free SKU	Basic SKU	SqlPremiumOrBusinessCriticalOrD...	VM Deallocated
> internal-samanoh-fts (13)									

Rename the downloaded report to "Summary by Resource Type and Environment.xlsx"

2. Summary by Resource, Environment

Navigate to "Export" tab of the report and click the download button highlighted below for "Summary by Resource, Environment" table.

Summary by Resource, Environment

Search

SubscriptionId	ResourceId	Environment	Resource Total	OtherSku	DevelopmentSkuCount	SharedSkuCount	FreeSkuCount	BasicSkuCount	SqlPre
> internal-samanoh-fts (13)									

Rename the downloaded report to "Summary by Resource, Environment.xlsx"

3. Resources Details

Navigate to “Export” tab of the report and click the download button highlighted below for “Resources Details” table.

Resources Details

Search

Subscription	↑↓	Type	↑↓	SkuName	↑↓	Kind	↑↓	Name	↑↓	State	↑↓	Location	↑↓
> 📌 internal-samanoh-fta (58)													

Rename the downloaded report to “Resources Details.xlsx”

4. Advisor – Reliability

Navigate to “Export” tab of the report and click the download button highlighted below for “Advisor Recommendations by Impact” table.

Advisor Recommendations by Impact

Search

Subscription	↑↓	Impact	↑↓	ImpactedField	↑↓	ImpactedValue	↑↓	Description	↑↓	resources
> 📌 MSUS Security Conversations (4)										
> 📌 Contoso IT – Retail - DevTest (7)										
✓ 📌 ADM Dev + Test (1)										

Rename the downloaded report to “Advisor - Reliability.xlsx”

5. Workbook Reliability Score

Navigate to summary page and capture the single “Workbook reliability score” by choosing the right filters. Example below:

