

Automation of Cloudability Business Mappings Backup

Overview

Platform:	Azure
Owner of this SOP:	Azure Platform Operations
Service:	Automation of Cloudability Business Mappings Backup
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Reviewer	

Problem

Business Mappings configured in Cloudability is currently being backed up manually.

Solution

To avoid this manual effort, an automation solution was developed which performs backup of Cloudability Business Mappings on a daily basis.

Resources Involved

All the resources mentioned below are part of the Azure subscription "it-prd-iactooling" (caa43387-6921-4cb1-ba2d-d1d3f03c3f8e) and resource group it-cloudability.

Resource Type	Name	Usage
Automation Account	it-aue-prd-aac-cloudability	Hosts the Runbook BackupBusinessMappings which has the automation code to perform the backup
Storage Account	itlcostlaxq	Has the container named backup which stores the backup files
Key Vault	it-prdiactooling1	The API Key used in backup automation is saved as a secret named cloudability-key
Action Group	FinOpsDL	Contains the list of email IDs to which the notification about automation failure will be triggered

How the Automation works

1. An API Key is created in Cloudability with necessary access to retrieve Business Mappings.
2. This API Key is saved as secret cloudability-key in the Key Vault it-prdiactooling1
3. In the Storage Account itlcostlaxq a new container is created named as backup
4. A New Automation Account is created - it-aue-prd-aac-cloudability
5. In this Automation Account, a Runbook named BackupBusinessMappings is created and code has been developed which extracts the Secret mentioned in Step 2. Using this Key, Cloudability API is triggered. The output is converted as JSON and saved in the container mentioned in Step 3.
6. This Runbook is scheduled to run every day at 6PM UTC
7. A Life Cycle Management Rule Delete Cloudability BusinessMappings Backup Older than 30 days is configured such that the backup files which are older than 30 days will be deleted
8. In case of any failure, a notification will be sent to the FinopsDL Action Group

Action to take in case of Failure

In case of failure, an alert will be sent to the DLs provided in the FinOpsDL Action group. The Alert will have the subject **Azure: Activated Severity: 3 Cloudability Business Mappings - Backup Job Failure.**

The reason for failure can found by navigating to the respective Runbook Jobs

Home > BackupBusinessMappings (it-aue-prd-aac-cloudability/BackupBusinessMappings)

BackupBusinessMappings (it-aue-prd-aac-cloudability/BackupBusinessMappings)

Runbook

jobs

Refresh Find job

Resources	Status	Created
Jobs	✓ Completed	12/15/2022, 11:30:03 PM
	✓ Completed	12/14/2022, 11:30:03 PM
	✗ Failed	12/14/2022, 8:53:46 AM
	✓ Completed	12/13/2022, 11:30:02 PM
	✓ Completed	12/12/2022, 11:30:03 PM
	✓ Completed	12/12/2022, 5:02:11 PM

To see the logs of an execution, you have to click on the respective job Output

Home > BackupBusinessMappings (it-aue-prd-aac-cloudability/BackupBusinessMappings) | Jobs >

BackupBusinessMappings 12/14/2022, 8:53 AM

Job

Resume Stop Suspend Refresh

Essentials

Id : 32c08a58-0fc6-4197-bdf3-9a0cfe906a03

Status : Failed

Ran on : Azure

Ran As : User

Input Output Errors Warnings All Logs Exception

```
Set-AzContext : Please provide a valid tenant or a valid subscription.
At line:5 char:2
+ Set-AzContext 'it-prd-iactoolinggg' | Out-Null
+ ~~~~~
+ CategoryInfo          : (:) [Set-AzContext], ArgumentException
+ FullyQualifiedErrorId : Microsoft.Azure.Commands.Profile.SetAzureRMContextCommand
```

If the failure seems to be transient, the Runbook can be re-executed by using the “Start” option in the Overview screen of the Runbook.

Home >

BackupBusinessMappings (it-aue-prd-aac-cloudability/BackupBusinessMappings)

Runbook

Search

Start View Edit Link to schedule Add webhook Delete Export Refresh

Overview

Activity log

Tags

Diagnose and solve problems

Resources

Essentials

Resource group : [it-cloudability](#)

Account : [it-aue-prd-aac-cloudability](#)

Location : [Australia East](#)

Subscription : [it-prd-iactooling](#)

Subscripti

Status

Runbook

Runtime v

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If it still fails, or the reason seems to be unknown, please submit an Incident to “Cloud Svcs - Platform Operations”