

PERIODICALLY RESTART AZURE WEBAPP SERVICE



AUGUST 05, 2022

Steps:

- 1. Create an Automation account.
- 2. Set one of the two methods available for the authentication of automation account.
- 3. Import necessary modules, create a Runbook and schedule that Runbook.

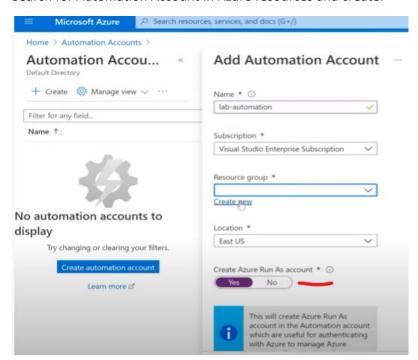
Creation of Automation Account and Methods for Authentication

There are two methods to configure the automation account's authentication.

- Run-As Account
- Managed Identity.

1. Run-As Account

Search for Automation Account in Azure resources and create.



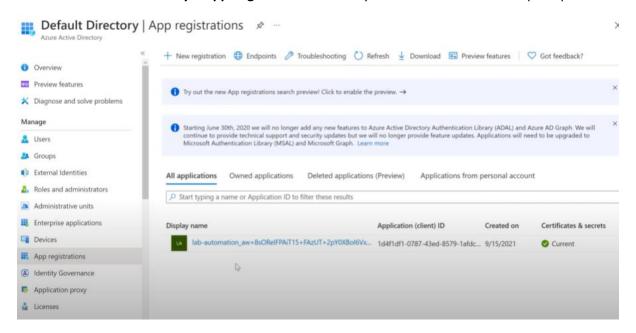
Note: - When you create an Automation account, the option to create a Run As account is no longer available. However, you can still create a Run As account in your Automation account from the Azure portal after the creation.

For an automation account to have all permissions to automate services, one must have the following permissions:

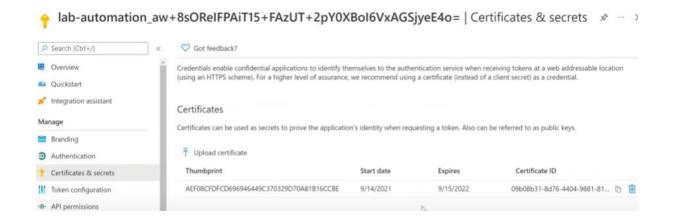


To verify:

Go to Azure Active Directory > App Registrations > There you shall see a new service principal created.

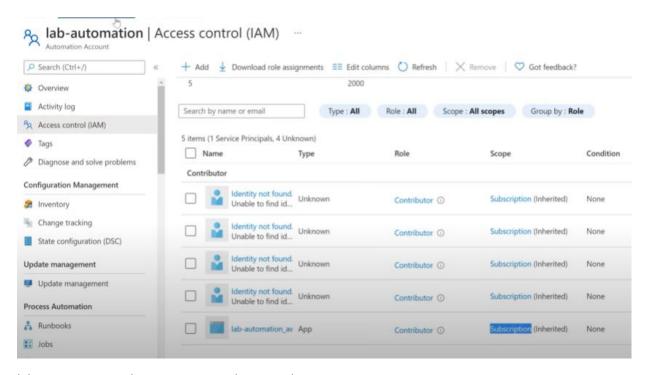


Select the created principal and go to **Certificates and Secrets**, there a self-signed certificate should also be created.



Note: - The automation account should stop working when the certificate expires.

Navigate back to Automation Account and click on Access Control (IAM) to check access.



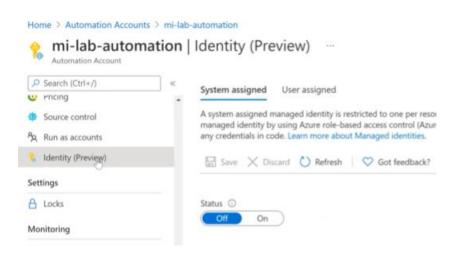
<u>lab-automation</u> is the service principle created in Azure Active Directory.

Note: - All the above-mentioned resources along with Service Principle are automatically generated if you select "Azure Run As account"

2. Managed Identity

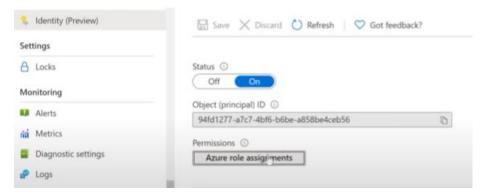
In this authentication method, you do not select the "Run as Account" and use the **Identity** feature.

Go to your Automation Account and find Identity.



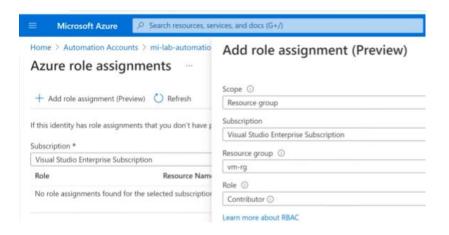
Set the Status to ON and save.

This creates a service principal in the back end and will allow Microsoft to manage the service principal for you.



After turning it on, go to the Azure role assignments and assign the role to the service which you want to use for automation.

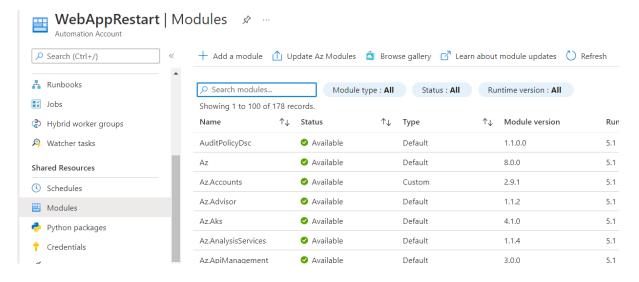
In above example, Contributor access to a resource group is given. Make sure to give access to the resource group in which the service is present that you want to automate.



Note: - If you go back to the Active Directory App Registrations, you won't see the service principal there because it is managed by Microsoft.

Creation of the Scheduled Runbook

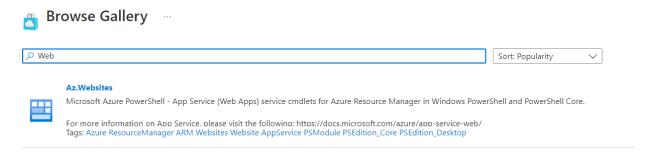
Go to your Automation account and browse the Modules section.



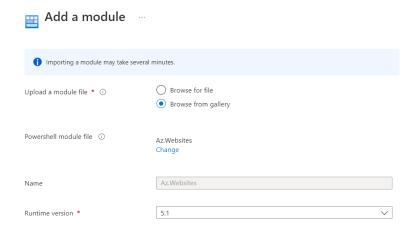
From here, add all the necessary modules required in the script for the runbook.

Note: - If the script is written in AzureRM, add those modules, otherwise add the Az modules.

In this case, we have stopped an Azure WebApp so the required module to initiate those commands is Az.Websites

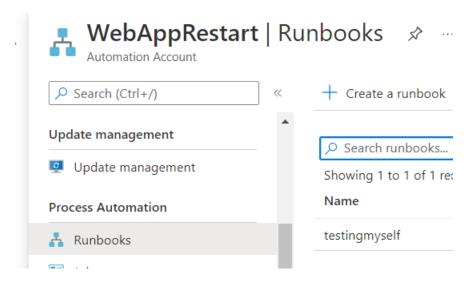


Search it in the Gallery, select the module and Import.

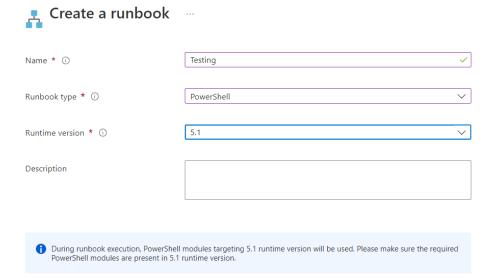


Note: - If you get a dependency error, then you must install the prerequisite module mentioned first.

After importing the required modules, go to the Runbooks section and create a runbook.



Note: - Also check the **Import a runbook** option and search if the automation you want to perform already exists as a template, in that case import that.

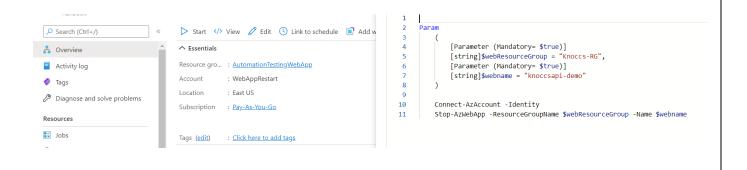


In this example, we are **Stopping** an Azure WebApp

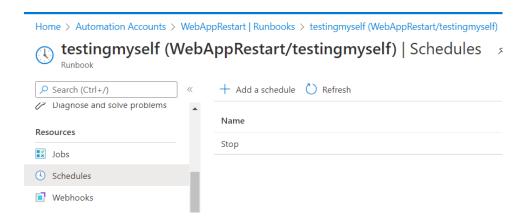


Note: - Click on Test pane if you want to test the script first.

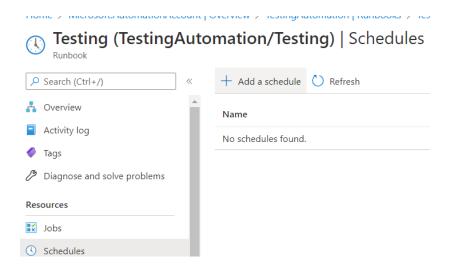
After creating the runbook, click on save and publish it.



We have successfully, created the Runbook which performs the stop action, now to schedule this Job every day, head over to the Schedule section.



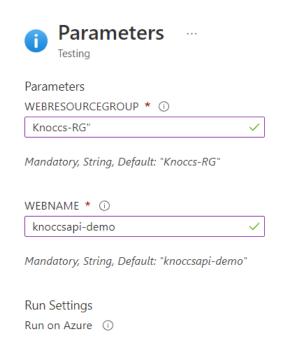
Add the schedule and link your runbook to the schedule to automate the process.



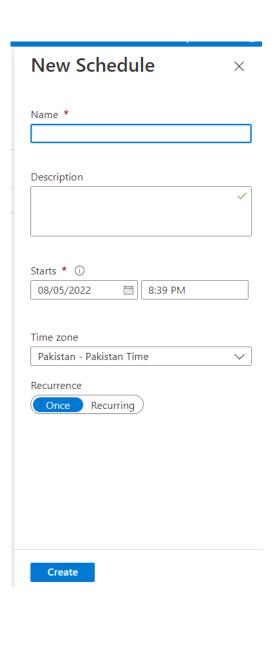
First click on Link a schedule to link it, then configure the parameters.



Fill the required details and hit on ok.



After that, the runbook will run in the mentioned schedule.



IMPORTANT!

To start working on the runbook, Use the following line of code in the beginning of the script in case of **Identity Management Authentication** to set a connection.

In case of Run-As Account, use the following line of code in the beginning to set the connection.