



Scheduling jobs in Azure SQL database through Azure Automation

Template Version: 2.0

Introduction

During this lab, you will learn how to create an Azure Automation account and create and schedule a runbook to execute tasks against an Azure SQL Database.

Estimated Time

30 minutes

Objectives

At the end of this lab, you will be able to:

- Create an Azure Automation account.
- Create and schedule a runbook to execute tasks against an Azure SQL Database

Logon Information

Use the following credentials to login into virtual environment

- Username: Administrator
- Password: Password1

Table of Contents

Lab: Scheduling jobs in Azure SQL database through Azure Automation 3

 Exercise 1: This lab requires the use of an Azure Trial account..... 3

 Exercise 2: Create Automation Account..... 3

 Exercise 3: Create Runbook..... 6

 Exercise 4: Create Credential for the Automation Account..... 10

 Exercise 5: Schedule the Runbook..... 13

 Exercise 6: Start the Runbook 15

Lab: Scheduling jobs in Azure SQL database through Azure Automation

During this lab, you will learn how to schedule jobs in Azure SQL Database through Azure Automation.

Exercise 1: This lab requires the use of an Azure Trial account.

This exercise shows how to use Azure Trial account.

Tasks

1. Get Your Trial Azure subscription

This lab requires the use of an Azure Trial account. Please go to <https://azure.microsoft.com/en-us/free> and follow the steps to create your own account prior to starting the lab.

Exercise 1 has been completed

Exercise 2: Create Automation Account

You should create an automation account to do the Azure Automation.

Tasks

1. Connect to the Virtual Machine

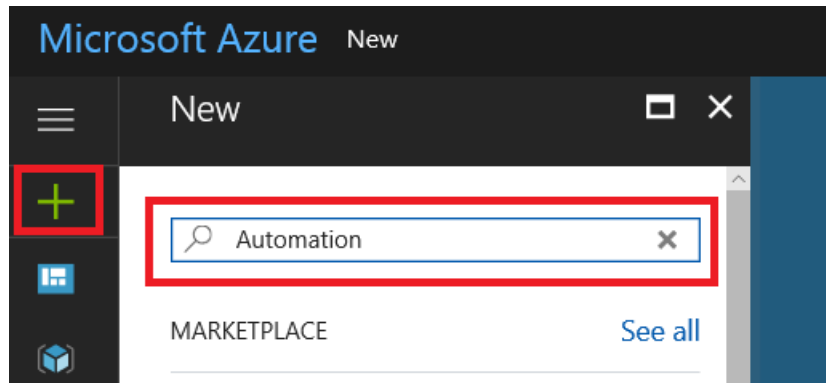
Under the Commands menu, select **Ctrl+Alt+Delete**. Then from the Commands menu again select Paste, then Paste Password. Then press Enter to logon to machine.

2. Connect to Microsoft Azure Portal

Open Internet Explorer and navigate to <http://ms.portal.azure.com> to connect to Microsoft Azure Portal. Login with your subscriptions credential.

3. Search for Automation




Click New, fill in “Automation” and press Enter



4. Click Automation

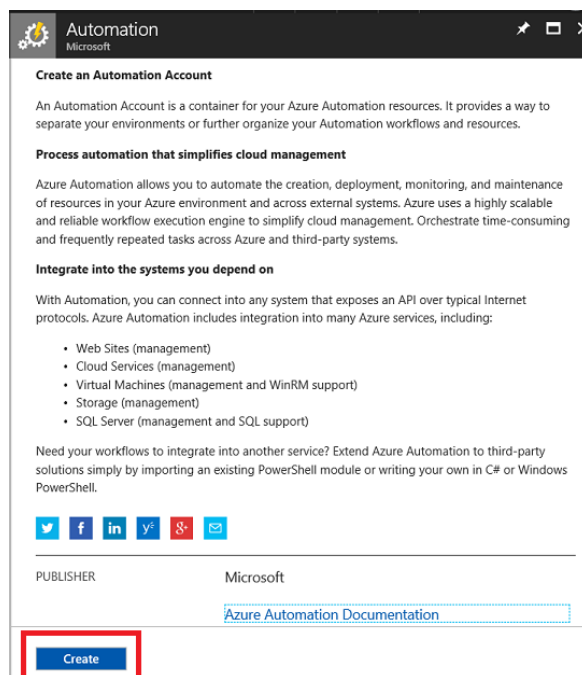
Navigate to the result window and **click** Automation

Results

NAME	PUBLISHER	CATEGORY
 Automation	Microsoft	Developer tools
 Automation & Control	Microsoft	Monitoring + Manage...
 Chef Automate	Chef Software, Inc	Compute

5. Create Automation

Navigate to the Automation window and **click** the Create button



6. Configure Automation

Enter the required information to create the Automation Account. The required information can be found in the **Knowledge** section. **Click** Create.

Name: Myautomation

Subscription: Select your subscription

Resource Group: You can either create a new resource group as AzureSQLDBWorkshop or use the existing one AzureDB-RG

Location: Select the location that is the closest to your location

Create Azure Run As Account: Yes

Add Automation Account

* Name ⓘ

Myautomation

* Subscription

* Resource group ⓘ

☐ Create new
☒ Use existing


AzureDB-RG

* Location

West Europe

* Create Azure Run As account ⓘ

Yes
No


The Run As account feature will create a Run As account and a Classic Run As account. [Click here to learn more about Run As accounts.](#)

☐ Pin to dashboard

Create

Exercise 2 has been completed

Exercise 3: Create Runbook

You can either add a runbook and provide your custom PowerShell script or browse from the gallery and use the scripts available in the gallery

Tasks

1. Connect to Microsoft Azure Portal

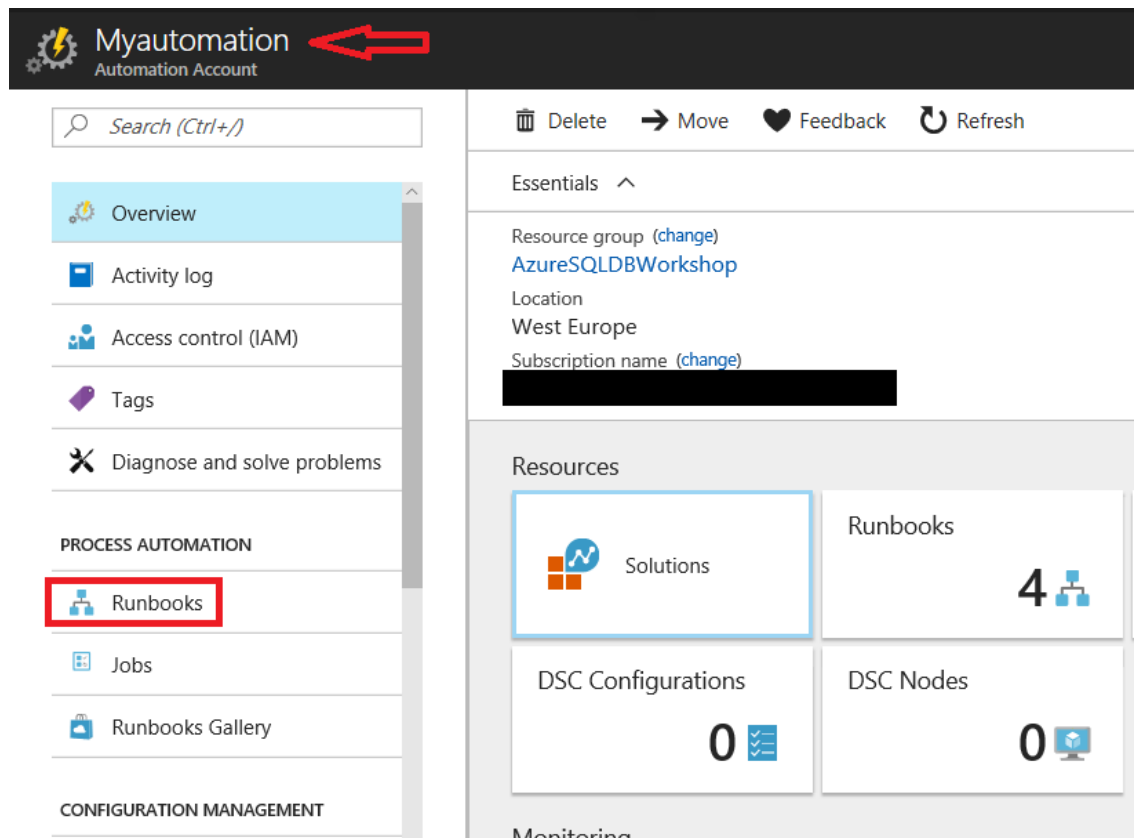
Open Internet Explorer and navigate to <http://ms.portal.azure.com> to connect to Microsoft Azure Portal. Login with your subscriptions credential.

2. Open your Automation

Navigate to the Automation that you have created in Exercise 2. You can click All resources on the left and click Myautomation

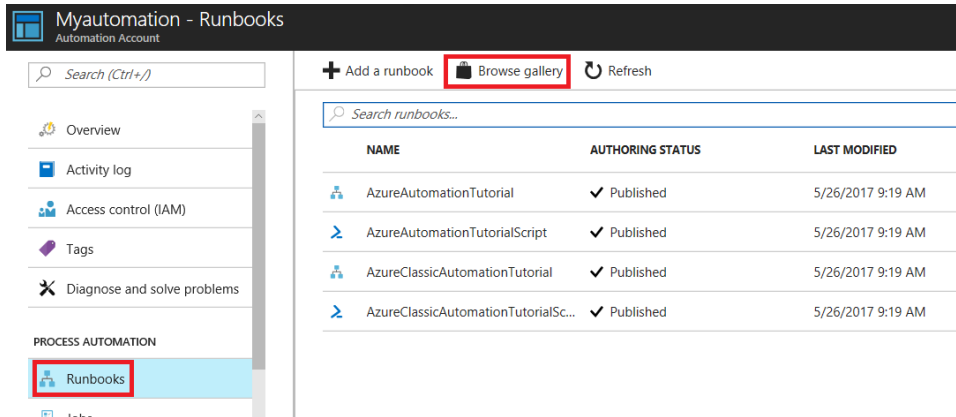
3. Click Runbooks under Automation

Click Runbooks under Process Automation in Myautomation



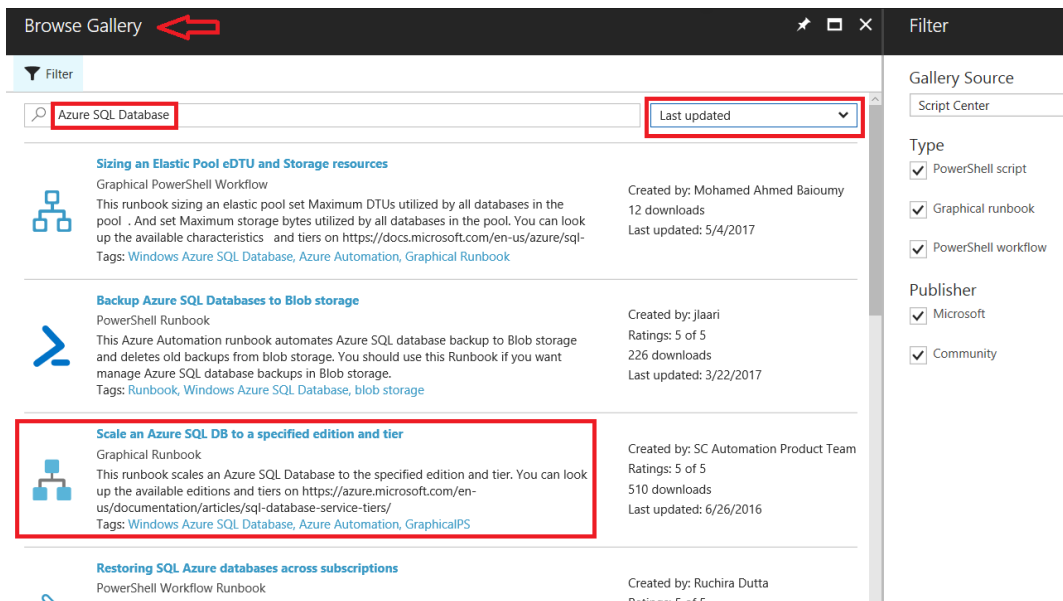
4. Open Browse Gallery

Click Browse gallery



5. Search for Azure SQL Database

Search for Azure SQL Database, **sort** the list by last updated and **Click** Scale an Azure SQL DB to a specified edition and tier



6. Import the Runbook

Click Import and provide a name and description

Scale an Azure SQL DB to a specified edition and tier ←

📄 Import

This runbook scales an Azure SQL Database to the specified edition and tier. You can look up the available editions and tiers on <https://azure.microsoft.com/en-us/documentation/articles/sql-database-service-tiers/>
 Created by: SC Automation Product Team - **Microsoft**
 Tags: [Windows Azure SQL Database](#), [Azure Automation](#), [GraphicalPS](#)
[View Source Project](#)

Ratings: 5 of 5
510 downloads
Last updated: 6/26/2016

```

graph TD
    A[Get RunAs Connection] --> B[Authenticate using RunAs Connection]
    B -.-> C[Select subscription if input parameter set]
    C --> D[Return Connection Information]
    B --> D
    D --> E[Set new edition and pricing tier]
    D --> F[Set to Basic tier]
    
```

🔍 1:1

ATTENTION
 Each runbook is licensed to you under a license agreement by its owner, not Microsoft. Microsoft is not responsible for runbooks provi

7. Give a name to Runbook

Give a name to run book as Scale-AzureSQLDB and Click OK

📄 Import
⏏ ✕

* Name ⓘ

Scale-AzureSQLDB

Runbook type ⓘ

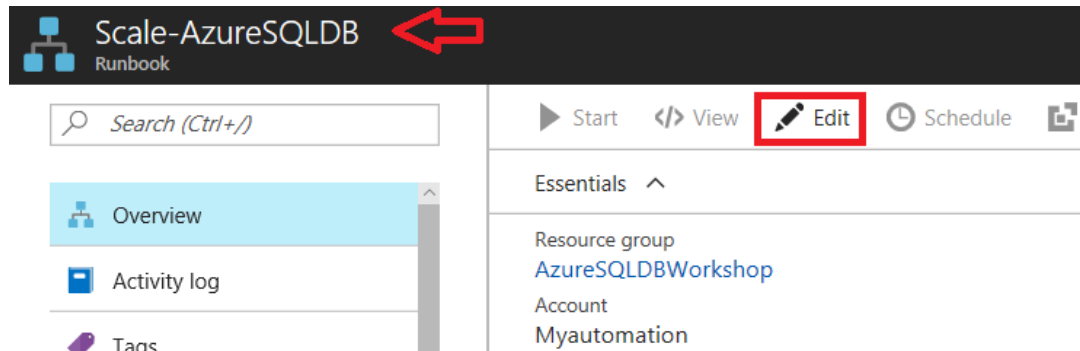
Graphical ▼

Description

OK

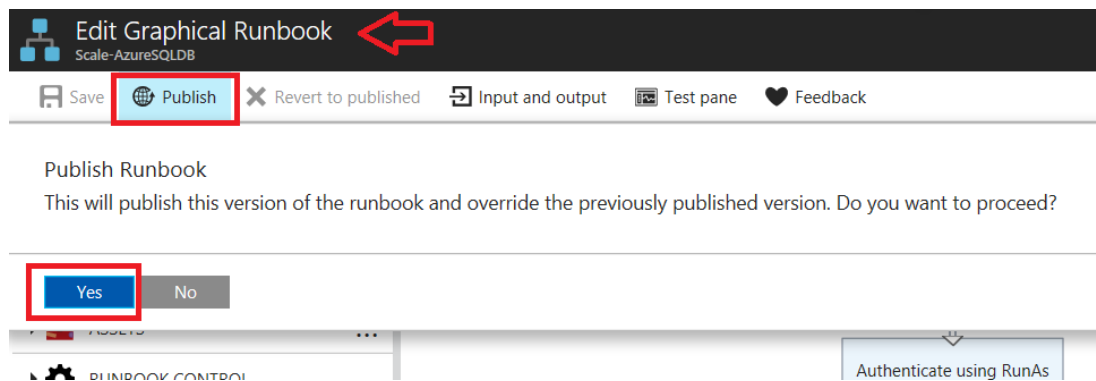
8. Edit the Runbook

The Runbook needs to be published to be run in the production. Click Edit



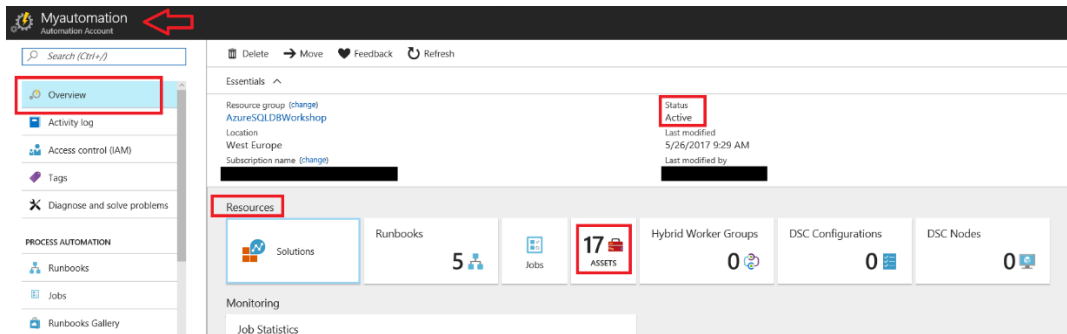
9. Publish the Runbook

Click Publish to publish the runbook and then Click Yes when prompted



10. Examine the Automation

Check the details in Automation



Exercise 3 has been completed

Exercise 4: Create Credential for the Automation Account

The credential itself is something you reference that has a SQL username and password for the database

Tasks

1. Connect to Microsoft Azure Portal

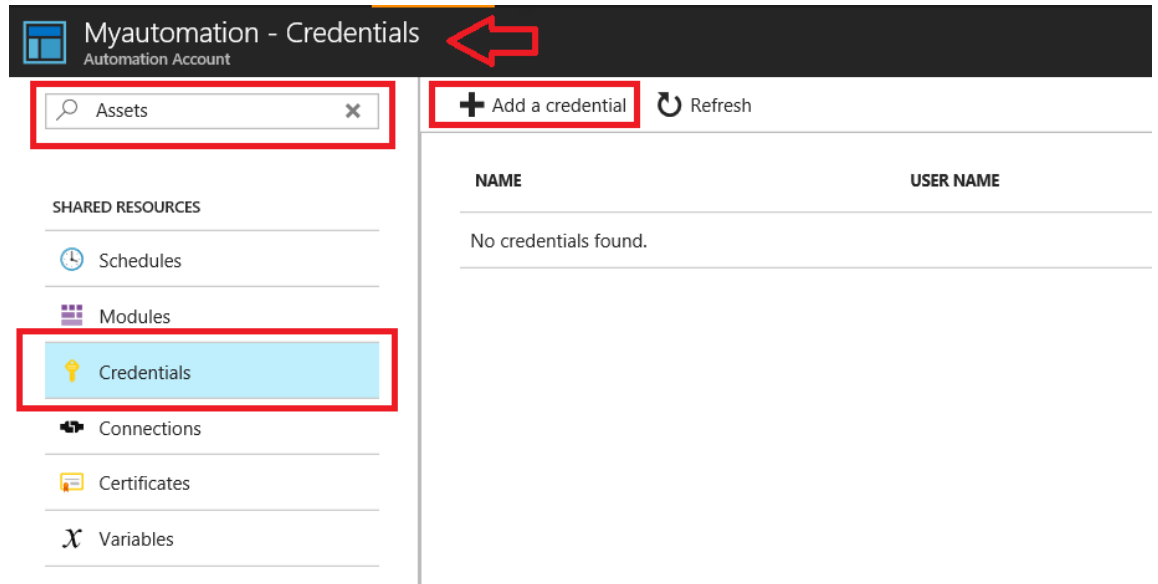
Open Internet Explorer and navigate to <http://ms.portal.azure.com> to connect to Microsoft Azure Portal. Login with your subscriptions credential.

2. Open your Automation

Navigate to the Automation that you have created in Exercise 2. You can click All resources on the left and click Myautomation

3. Search for Assets in Automation

Search for Assets in the Myautomation and Click Credential and Click Add a credential



4. Create the Credential

Enter the required information to create the Credential. The required information can be found in the **Knowledge** section. **Click** Create.

<p>Name: AzureDBCredential</p> <p>User name: mycredential</p> <p>Password: Password1</p> <p>Confirm Password: Password1</p>

New Credential

*

Name

AzureDBCredential

✓

Description

*

User name

mycredential

✓

*

Password

••••••••

✓

*

Confirm password

••••••••

✓

Create

5. Examine the Credential

Check the credential

Myautomation - Credentials

Automation Account

Assets

+

Add a credential

↺

Refresh

SHARED RESOURCES

Schedules

Modules

Credentials

NAME	USER NAME
AzureDBCredential	mycredential

Exercise 4 has been completed

Exercise 5: Schedule the Runbook

You can decide up on the time where you want to scale up and scale down your database. You need to create separate run book for each of the options.

Tasks

1. Connect to Microsoft Azure Portal

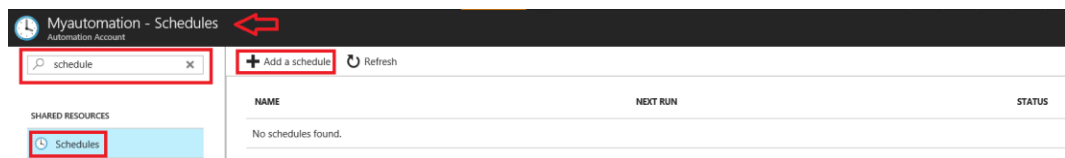
Open Internet Explorer and navigate to <http://ms.portal.azure.com> to connect to Microsoft Azure Portal. Login with your subscriptions credential.

2. Open your Automation

Navigate to the Automation that you have created in Exercise 2. You can click All resources on the left and click Myautomation

3. Search for Schedule in Automation

Search for Schedule in the Myautomation and Click Schedules and Click Add a Schedule



4. Create the Schedule

Enter the required information to create the Schedule. The required information can be found in the **Knowledge** section. **Click** Create.

Name: Scaledown

Description: Scaledown Azure SQL Database

Starts: Set any time you prefer including time zone

Recurrence: Recurring

Recur every: 1 Hour

Set expiration: No

New Schedule

* Name

Scaledown ✓

Description

Scaledown Azure SQL Database ✓

* Starts ⓘ

2017-05-26 11:10:00 AM

United Arab Emirates - Gulf Standard Time ▼

Recurrence

Once **Recurring**

* Recur every

1 Hour ▼

Set expiration

Yes **No**

Expires

Never

Create

5. Examine the Schedule

Check the schedule

Myautomation - Schedules		
Automation Account		
<input type="text" value="schedule"/>	+ Add a schedule Refresh	
NAME	NEXT RUN	STATUS
Scaledown	5/26/2017 11:10 AM (United Arab Emirates Time)	✓ On

Exercise 5 has been completed

Exercise 6: Start the Runbook

This exercise shows how to start the Run Book.

Tasks

1. Connect to Microsoft Azure Portal

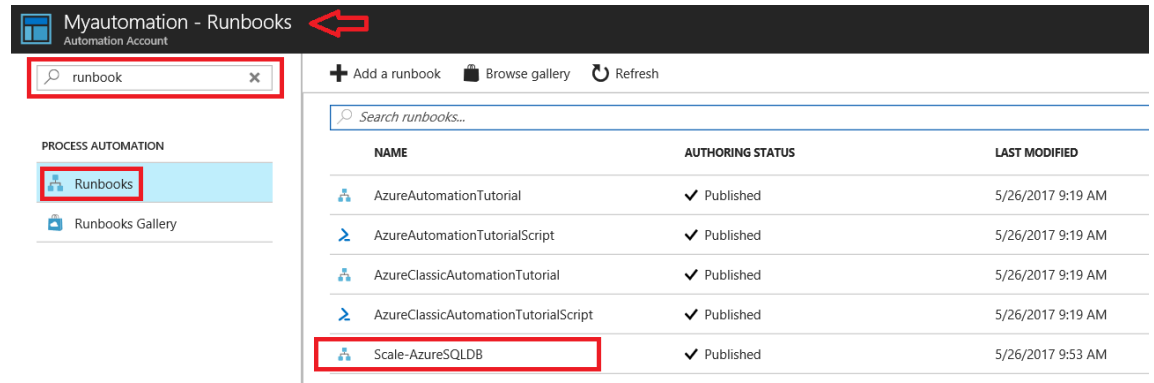
Open Internet Explorer and navigate to <http://ms.portal.azure.com> to connect to Microsoft Azure Portal. Login with your subscriptions credential.

2. Open your Automation

Navigate to the Automation that you have created in Exercise 2. You can click All resources on the left and click Myautomation

3. Search for Runbook

Search for Runbook in the Myautomation and **Click** Scale-AzureSQLDB runbook



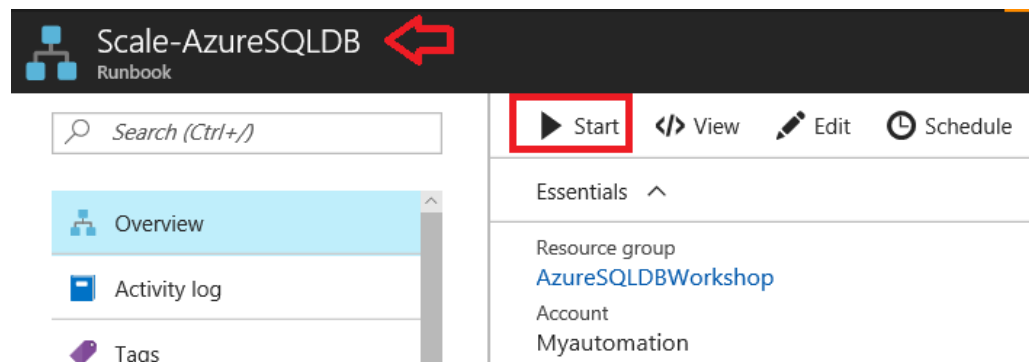
Myautomation - Runbooks Automation Account

Search runbooks...

NAME	AUTHORING STATUS	LAST MODIFIED
AzureAutomationTutorial	✓ Published	5/26/2017 9:19 AM
AzureAutomationTutorialScript	✓ Published	5/26/2017 9:19 AM
AzureClassicAutomationTutorial	✓ Published	5/26/2017 9:19 AM
AzureClassicAutomationTutorialScript	✓ Published	5/26/2017 9:19 AM
Scale-AzureSQLDB	✓ Published	5/26/2017 9:53 AM

4. Start the Runbook

Click Start to start the runbook



Scale-AzureSQLDB Runbook

Search (Ctrl+/)

Start View Edit Schedule

Overview Activity log Tags

Essentials

Resource group
AzureSQLDBWorkshop

Account
Myautomation

5. Configure the Parameters

If the runbook has no parameters, you will be prompted to confirm whether you want to start it. If the runbook has parameters, the Start Runbook blade will be opened so you can provide parameter values. This runbook has parameters.

Provide the parameters accordingly. **Click OK**

Resource Group Name: AzureDB-RG

Server name: myazuresrv

Database name: Salesdb

Start Runbook
Scale-AzureSQLDB

Parameters

* RESOURCEGROUPNAME ⓘ
AzureDB-RG ✓
Mandatory, String

* SERVERNAME ⓘ
myazuresrv ✓
Mandatory, String

* DATABASENAME ⓘ
Salesdb ✓
Mandatory, String

DATABASEEDITION ⓘ
Default will be used
Optional, String, Default: 'Basic'

PRICINGTIER ⓘ
Basic
Optional, String

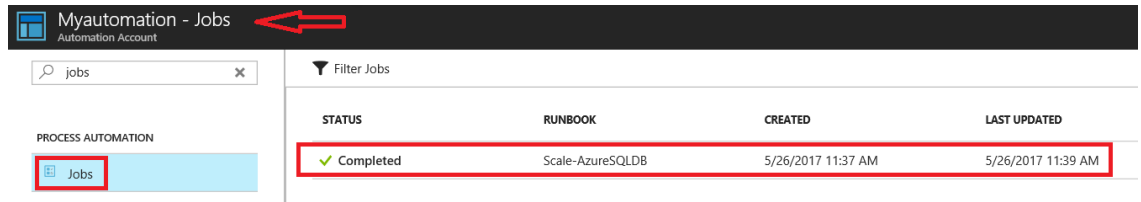
SUBSCRIPTIONID ⓘ
No value
Optional, String

Run Settings

OK

6. Examine Job History

Navigate to Myautomation runbook and **Select** Jobs in the runbook to see the details.



Myautomation - Jobs Automation Account			
Filter Jobs			
STATUS	RUNBOOK	CREATED	LAST UPDATED
✓ Completed	Scale-AzureSQLDB	5/26/2017 11:37 AM	5/26/2017 11:39 AM