



AWS DynamoDB Package

Readme

Version 1.0.3

17/08/2020

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1. Introduction

This document contains all essential information for the user to make full use of this A2019 **AWS DynamoDB package**. It includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the **AWS DynamoDB Package**.

1.1 Overview

With the package actions you can build bots that create and delete AWS DynamoDB tables; insert, delete , read and update items.

1.2 Use cases

The key use cases include:

- Integrate a bot with a cloud-based AWS DynamoDB database
- Store data in a Non-SQL database beyond bot execution
- Retrieve data during the bot execution

2. Requirements & Prerequisites

2.1 System Requirements

- Enterprise A2019.12+
- An AWS account

2.2 Prerequisites

- Access and secret key that allows to access AWS DynamoDB services

3. Getting Started

3.1 Quick Start












3.1.1 Setup

Import the A2019 DynamoDB Package in the Control Room under Bots->Packages

3.1.2 Configuration and Use

The package contains the following command actions

AWS DynamoDB

-  Create Table
-  Delete Item
-  Delete Table
-  End Session
-  Get Attribute Value
-  Get Item
-  Get List of Tables
-  Insert Item
-  Scan Table
-  Start Session
-  Update Item

General rules

- Some actions allow to pass data as a JSON string. In this case a dictionary entry with the key “payload” and a JSON string should be provided, all other entries will be ignored
- Some actions return the DB items as a JSON string or a list of JSON strings

| Name | Description | Parameter | |
|----------------------|-------------------------|-------------------------------|---|
| Start Session | Start DynamoDB session | Session Name | Current session |
| | | Region | AWS region |
| | | Access key | AWS access key |
| | | Secret key | AWS secret key |
| Create Table | Create a DynamoDB table | Session Name | Current session |
| | | Table | Table name |
| | | Partition Key | Name of the Partition key |
| | | Partition Key Type | String or Number |
| | | Sort Key (optional) | Optional name of the Sort key |
| | | Sort Key Type (optional) | String or Number |
| | | Throughput | Throughput for the DynamoDB table |
| | | Status | Status of the table creation |
| DeleteTable | Delete a DynamoDB table | Session Name | Current session |
| | | Table | Table name |
| | | Status | Status of the table deletion |
| Insert Item | Insert an item | Session Name | Current session |
| | | Table | Table name |
| | | Partition Key | Name of the Partition key |
| | | Partition Value | Should be a String or Number Value |
| | | Dictionary of Item Attributes | Each entry represents an item attribute. If a sort key is used, there should be an entry for it. String, Number and Boolean values are supported. If an entry with the key 'payload' and a JSON value exists, it is used as the payload and all other entries are ignored |

| | | | |
|----------------------------|-------------------------------------|-----------------------|--|
| | | Status | Status of the item insertion |
| Delete Item | Delete an item | Session Name | Current session |
| | | Table | Table name |
| | | Partition Key | Name of the Partition key |
| | | Partition Value | Should be a String or Number Value |
| | | Sort Key (optional) | Optional name of the Sort key |
| | | Sort Value (optional) | Optional value of the Sort entry, should be a String or Number Value |
| | | Status | Status of the item deletion |
| Get Item | Get an item | Session Name | Current session |
| | | Table | Table name |
| | | Partition Key | Name of the Partition key |
| | | Partition Value | Should be a String or Number Value |
| | | Sort Key (optional) | Optional name of the Sort key |
| | | Sort Value (optional) | Optional value of the Sort entry, should be a String or Number Value |
| | | Item | Item as a JSON string |
| Get Attribute Value | Gets value for a certain JSON entry | Session Name | Current session |
| | | Item | Item as a JSON string |
| | | JSON Key | Key of the JSON entry |
| | | Value | Value of the JSON entry, always a String Value |
| Update Item | Update an item | Session Name | Current session |
| | | Table | Table name |
| | | Partition Key | Name of the Partition key |
| | | Partition Value | Should be a String or Number Value |

| | | | |
|---------------------------|-------------------------|-------------------------------|--|
| | | Sort Key (optional) | Optional name of the Sort key |
| | | Sort Value (optional) | Optional value of the Sort entry |
| | | Dictionary of Item Attributes | Each entry represents an item attribute. String, Number and Boolean values are supported. If an entry with the key 'payload' and a JSON value exists, it is used as the payload and all other entries are ignored |
| | | Status | Status of the item update |
| Scan Table | Scan Table for Values | Session Name | Current session |
| | | Table | Table name |
| | | Dictionary of filter | Each entry represents a filter attribute. String, Number and Boolean values are supported. If an entry with the key 'payload' and a JSON value exists, it is used as the payload and all other entries are ignored |
| | | use AND operator | Use AND (true) or OR (false) to combine the filter expressions |
| | | List | List of items as JSON strings |
| Get List of Tables | Get the DynamoDB tables | Session Name | Current session |
| | | List | List of Tables |
| End Session | End a DynamoDB session | Session Name | Current session |

4. Support & FAQs

4.1 Support

Free bots are not officially supported. You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on [APeople](#) – the [Bot Building Forum](#), the [Bot Store Support Forum](#), or the [Developers Everywhere Group](#).
- Automation Anywhere also provides a [Product Documentation portal](#) which can be accessed for more information about our products and guidance on [Enterprise A2019](#).

4.2 FAQs

You find more information about Amazon DynmaoDB here

<https://aws.amazon.com/dynamodb/>

<https://aws.amazon.com/dynamodb/getting-started/>

For questions relating to Enterprise A2019: See the [Enterprise A2019 FAQs](#).

Appendix A: Record of Changes

Instructions: Provide information on the version number, the date of the version, the author/owner of the version, and a brief description of the reason for creating the revised version.

| No. | Version Number | Date of Change | Author | Notes |
|----------|----------------|----------------|----------------|-----------------------|
| 1 | 1.0.2 | 24/5/2020 | Stefan Karsten | Initial version |
| 2 | 1.0.3 | 17/8/2020 | Stefan Karsten | Fixing Session Action |

Appendix B: References

| No. | Topic | Reference Link |
|-----|--|----------------------------|
| 1 | Overview of Enterprise A2019 | Click here |
| 2 | Guidance: Building basic A2019 bots | Click here |
| 3 | Guidance: Building A2019 action packages | Click here |
| 4 | APeople Community Forum | Click here |
| 5 | Automation Anywhere University | Click here |