

Azure SQL Data Sync APIs (Public Preview)

Azure SQL Data Sync is a cloud-based data synchronization service that supports synchronizing data between multiple Azure SQL databases or between Azure SQL databases and on-premises SQL Server database via an on-premises synchronization agent. This document describes the public APIs for Azure SQL Data Sync feature on Microsoft Azure Resource Manager Service.

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1 Create or Update Sync Group

The **Create or Update Sync Group** operation creates a new sync group or update an existing sync group with the specified parameters.

1.1 Request

Request URI

Method	Request URI
PUT	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync group within the specified resource group, server and database. The sync Group names must be between 1 and 200 characters in length and numbers can be lower-case and upper-case letters, and case insensitive. It is unique per SQL Azure database.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
x-ms-client-request-id	A client-generated GUID value that identifies this request.	Optional
Authorization	The Azure active directory authorization token.	Required

Request Body

```
{
  "properties": {
    "interval": "<interval>",
    "conflictResolutionPolicy": "<conflictResolutionPolicy>",
    "syncDatabaseId": "<syncDatabaseId>",
    "hubDatabaseUsername": "<hubDatabaseUsername>",
    "hubDatabasePassword": "<hubDatabasePassword>",
    "schema": {
      "tables": [
        {
          "columns": [
            {
              "quotedName": "<quotedColumnName>"
            },
            ...
          ]
        },
        ...
      ]
    }
  }
}
```

```

        {
            "quotedName": "<quotedColumnName>"
        }
    ],
    "quotedName": "<quotedTableName>"
}, ...
],
"masterSyncMemberName": "<masterSyncMemberName>"
}
}
}

```

Request Body Parameters

Parameter	Description	
interval	The time interval (in minutes) to do data sync.	Required
conflictResolutionPolicy	The value indicates the policy of resolving the conflict that happens between Hub and Member database. The possible values: HubWin, MemberWin.	Required
syncDatabaseId	The Azure SQL database of which the sync related metadata will be stored. The value is in ARM resource id format: “/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}”. If a sync database has been specified in an existing sync group or sync agent, this property is optional.	Optional
hubDatabaseUserName	The user name of the SQL authentication credential of the hub database. The hub database is the DB where this sync group is created under.	Required
hubDatabasePassword	The password of the SQL authentication credential of the hub database.	Required
tables	The properties to describe the table schema for Sync	Optional
quotedTableName	The quoted name of the schema table	Optional
columnName	The property to describe the name of the column in the schema table.	Optional
quotedColumnName	The quoted name of the column in the schema table.	Optional
masterSyncMemberName	The name of sync member. The schema is from the database that this sync member connects.	Optional

1.2 Response

Response Status Code

HTTP 202 (Accepted) if the sync group creation/updating is in progress.

HTTP 201 (Created) if the sync group is created.

HTTP 200 (OK) if the update is successful.

Response Headers

Header	Description
--------	-------------

Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required
Location	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncGroupOperation/results/{operationId}?api-version={api-version} This header is only for the case of being with 202 as the responded status code.	Optional
RetryAfter	Set to the delay that the client should use when checking for the status	Optional

Response Body

If responds HTTP 202 (Accepted), the operation result metadata is responded.

```
{
  "operation": "<operation>",
  "startTime": "<startTime>"
}
```

If responds HTTP 201 (Created) or HTTP 200 (OK), the sync group metadata is responded.

```
{
  "id": "<id>",
  "name": "<name>",
  "type": "<type>"
  "properties": {
    "interval": "<interval>",
    "syncDatabaseId": "<syncDatabaseId>",
    "conflictResolutionPolicy": "<conflictResolutionPolicy>",
    "lastSyncTime": "<lastSyncTime>",
    "syncState": "<syncState>",
    "schema": {
      "tables": [{
        "columns": [{
          "quotedName": "<quotedColumnName>",
          "dataSize": "<dataSize>",
          "dataType": "<dataType>"
        },
        ...
        {
          "quotedName": "<quotedColumnName>",
          "dataSize": "<dataSize>",
          "dataType": "<dataType>"
        }
      ],
      "quotedName": "<quotedTableName>"
    }, ...],
    "masterSyncMemberName": "<masterSyncMemberName>"
  }
}
```

Response Body Parameters

Parameter	Description
operation	The operation id.
startTime	The operation start time.
id	The id field is the URL which excludes the hostname/scheme and API version for the entity. The value will be: "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}"
type	It is the resource provider namespace with the type of the entity. The value will be: "Microsoft.Sql/servers/databases/syncGroups"
name	The same as the "name" parameter in the request payload.
interval	The time interval (in minutes) to do data sync.
conflictResolutionPolicy	The value indicates the policy of resolving the conflict that happens between Hub and Member database. The possible values: HubWin, MemberWin.
syncDatabaseId	The Azure SQL database of which the sync related metadata will be stored. The value is in ARM resource id format: "subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}"
tables	The properties to describe the table schema for Sync
lastSyncTime	System.DateTime. The time when last sync happens.
syncState	The state of the Sync Group. Possible values: NotReady -- sync group with no schema specified Error -- any sync group member get failure during sync\provision\de-provision Warning -- any sync group member sync succeed with warnings Progressing -- any sync group member sync\provision\sync cancel\de-provision in progress Good -- sync group with schema specified and no warning\failure happen
quotedTableName	The quoted name of the schema table
quotedColumnName	The quoted name of the column in the schema table.
masterSyncMemberName	The name of sync member. The schema is from the database that this sync member connects.

2 Update Sync Group

The **Update Sync Group** operation is to update the properties for a sync group.

2.1 Request

Request URI

Method	Request URI
PATCH	https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}?api-version={api-version}

Request URI Parameters

Parameter	Description
subscriptionId	The subscriptionID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscriptionID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

```
{
  "properties": {
    "interval": "<interval>",
    "hubDatabaseUsername": "<hubDatabaseUsername>",
    "hubDatabasePassword": "<hubDatabasePassword>",
    "schema": {
      "tables": [{
        "columns": [{
          "quotedName": "<quotedColumnName>"
        },
        ...
        {
          "quotedName": "<quotedColumnName>"
        }
      ],
      "quotedName": "<quotedTableName>"
    },
    ...
  ],
  "masterSyncMemberName": "<masterSyncMemberName>"
}
```

Request Body Parameters

The same as the one in [Section 1.1](#).

2.2 Response

Response Status Code

HTTP 202 (Accepted) if the sync group updating is in progress.

HTTP 200 (OK) if the operation is successful.

Response Headers

The same as [Section 1.2](#).

Response Body

The same as [Section 1.2](#).

3 Delete Sync Group

The **Delete Sync Group** operation deletes an existing sync group in Windows Azure. All the sub-resources under sync Group will be deleted completely.

3.1 Request

Request URI

Method	Request URI
DELETE	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

3.2 Response

Response Status Code

HTTP 202 (Accepted) if the deletion operation is triggered successfully.

HTTP 204 (No content) if the resource does not exist.

Response Headers

The same as the one in [Section 1.2](#).

Response Body

If responds HTTP 202 (Accepted), the operation result metadata is responded.

```
{
  "operation": "<operation>",
  "startTime": "<startTime>",
}
```

4 Get Sync Group Operation Result

The **Get Sync Group Operation result** operation gets the status of the sync group creation, updating and deletion by querying the operation id. The URL is from in the location header in the Put and Delete Sync Group API call response.

4.1 Request

Request URI

Method	Request URI
Get	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncGroupOperationresults/{operationId}?api-version={api-version}

Request URI Parameters

Parameter	Description
subscriptionId	The subscriptionid for the Azure user.
locationName	The name of the location.
operationId	The operation id of the deleting sync group resource.
api-version	Specifies the version. For the public preview, version “2015-05-01-preview” is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

4.2 Response

Response Status Code

HTTP 204 (NoContent) if the resource is not existed.
HTTP 201 (Create) if the creation operation is finished.
HTTP 200 (OK) if the update/deletion operation is finished.
HTTP 202 (Accepted) if the deletion operation is still in progress.

Response Headers

Header	Description	
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required
Location	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncGroupOperationresults/{operationId}?api-version={api-version}	Required
Retry-after	Set to the delay that the client should use when checking for the status	Required

Response Body

The same as [Section 1.2](#)

5 Get Sync Group Properties

The **Get Sync Group Properties** operation returns the properties for the specified sync group.

5.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

5.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

The same as the one in [Section 1.2](#).

Response Body Parameters

The same as the one in [Section 1.2](#).

6 List Sync Groups in Database

The **List Sync Groups in Database** operation lists all the sync Groups available under a given Azure SQL database.

6.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
<code>subscriptionId</code>	The subscription ID for the Azure user.
<code>resourceGroupName</code>	The name of the resource group within the user's subscription ID.
<code>serverName</code>	The azure SQL server name.
<code>databaseName</code>	The azure SQL database name
<code>api-version</code>	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

6.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

The same as [Section 5.2](#).

Response Body

Formatted list of sync Groups and their properties.

```
{
  value:
  [
    {
      <SyncGroup Payload in Section 1.2>
    },
    ...
    {
      <SyncGroup Payload in Section 1.2>
    }
  ]
}
```

7 Get Sync Database Ids

The **Get Sync Database Id** operation returns the Azure resource manager resource id of the sync database in a region and a subscription. The sync database id is the name specified in the sync group and sync agent payload.

7.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncDatabaseIds?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
<code>subscriptionId</code>	The subscription ID for the Azure user.
<code>locationName</code>	The name of the location.
<code>api-version</code>	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

7.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
<code>Content-Type</code>	Set this header to <i>application/json</i> .	Required
<code>Date</code>	The date that the request was processed in RFC 1123 format.	Required
<code>x-ms-request-id</code>	A unique identifier for the current operation, service generated.	Required

Response Body

```
{
  "value": [
    { "syncDatabaseId": "<syncDatabaseId>" }
  ]
}
```

Response Body Parameters

Parameter	Description
syncDatabaseId	The ARM resource id of the sync database "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}"

8 Trigger Sync Group Sync

The **Trigger Sync Group Sync** operation is to trigger one-time sync of a Sync Group.

8.1 Request

Request URI

Method	Request URI
POST	https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/triggerSync?api-version={api-version}

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
syncGroupName	The name of the sync Group within the specified resource group.
triggerSync	The action name.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

8.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

N/A

Response Body Elements

N/A

9 Cancel Sync Group Sync

The **Cancel Sync Group Sync** operation is to cancel the sync which is going on right now.

9.1 Request

Request URI

Method	Request URI
POST	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/cancelSync?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
cancelSync	The action name.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

9.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

N/A

Response Body Elements

N/A

10 Create or Update Sync Member

The SyncMember is as the next level resource of a sync group. The sync happens between the hub database in the sync group and the member databases in the sync members. The **Create or Update Sync Member** operation creates a new sync member or update an existing sync member with the specified parameters.

10.1 Request

Request URI

Method	Request URI
PUT	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync group within the specified resource group, server and database. The sync Group names must be between 1 and 200 characters in length and numbers can be lower-case and upper-case letters, and case insensitive. It is unique per subscription and per resource group name
syncMemberName	The name of the sync member within the specified sync group. The sync Group names must be between 1 and 200 characters in length and numbers can be lower-case and upper-case letters, and case insensitive. It is unique per subscription and per resource group name
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

```
{
  "properties": {
    "databaseType": "<databaseType>",
    "syncAgentId": "<syncAgentId>",
    "sqlServerDatabaseId": "<sqlServerDatabaseId>",
```

```

    "serverName": "<serverName>",
    "databaseName": "<databaseName>",
    "userName": "<userName>",
    "password": "<password>",
    "syncDirection": "<syncDirection>"
  }
}

```

Request Body Parameters

Parameter	Description	
syncAgentId	The ARM resource id of sync agent that connects to the on-premises SQL Server database. It is in the format of "subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/syncAgents/{syncAgent}". The sync agent specified must be in the same subscription and the same region, and the API caller has the permission to access the sync agent resource.	Optional.
sqlServerDatabaseId	The id of SQL server database under sync agent to present the on-premises SQL Server database. If agentId is specified, this property is required, and the serverName/databaseName/username/password should be null, else this property should be null and serverName/databaseName /username/password are required.	Optional.
serverName	The Azure SQL Server name of the member Database.	Optional.
databaseName	The Azure SQL Server database name of the member Database.	Optional.
userName	The user name of the member Database.	Optional.
password	The password of the member Database.	Optional.
syncDirection	The value indicates the direction of sync. Possible values: Bidirectional means Bi-directional OneWayMemberToHub means to the Hub OneWayHubToMember means from the Hub	Required.
databaseType	The database type. Possible values: SqlServerDatabase, AzureSqlDatabase	Required

10.2 Response

Response Status Code

HTTP 202 (Accepted) if the sync member creation/updating is in progress.

HTTP 201 (Created) if the sync member is created.

HTTP 200 (OK) if the update is successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required

x-ms-request-id	A unique identifier for the current operation, service generated.	Required
Location	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncMemberOperationresults/{operationId}?api-version={api-version} This header is only for the case of being 202 status code.	Optional
RetryAfter	Set to the delay that the client should use when checking for the status	Optional

Response Body

If responds HTTP 202 (Accepted), the operation result metadata is responded.

```
{
  "operation": "<operation>",
  "startTime": "<startTime>",
}
```

If responds HTTP 201 (Created) or HTTP 200 (OK), the sync member metadata is responded.

```
{
  "id": "<id>",
  "name": "<name>",
  "type": "<type>"
  "properties": {
    "databaseType": "<databaseType>",
    "syncAgentId": "<syncAgentId>",
    "sqlServerDatabaseId": "<databaseId>",
    "serverName": "<serverName>",
    "databaseName": "<databaseName>",
    "userName": "<userName>",
    "syncDirection": "<syncDirection>",
    "syncState": "<syncState>"
  }
}
```

Response Body Parameters

Parameter	Description
id	The id field is the URL which excludes the hostname/scheme and API version for the entity. The value will be: "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}"
type	It is the resource provider namespace with the type of the entity. The value will be: "Microsoft.sql/server/database/syncGroup/syncMember"
name	The name of the sync member.
databaseType	The database type. Possible values: SqlServerDatabase, AzureSqlDatabase.
syncAgentId	The ARM resource id of sync agent that connects to the on-premises SQL Server database
sqlServerDatabaseId	The databaseId of linkedDatabase under sync agent to present the SQL Server database. If the databaseType is "SqlServerDatabase", this property is required.

serverName	The Azure SQL Server name of the member Database. If the databaseType is "AzureSqlDatabase", this property is required.
databaseName	The Azure SQL Server database name of the member Database. If the databaseType is "AzureSqlDatabase", this property is required.
userName	The user name of the member Database. If the databaseType is "AzureSqlDatabase", this property is required.
syncDirection	The value indicates the direction of sync. Possible values: Bidirectional means Bi-directional OneWayMemberToHub means To the Hub OneWayHubToMember means from the Hub
syncState	The state of the sync member. Possible values: SyncInProgress, SyncSucceeded, SyncFailed, DisabledTombstoneCleanup, DisabledBackupRestore, SyncSucceededWithWarnings, SyncCancelling, SyncCancelled, UnProvisioned, Provisioning, Provisioning, Provisioned, Provisioned, ProvisionFailed, ProvisionFailed, DeProvisioning, DeProvisioning, DeProvisioned, DeProvisioned, DeProvisionFailed, DeProvisionFailed, Reprovisioning, Reprovisioning, ReprovisionFailed, ReprovisionFailed

11 Update Sync Member

The **Update Sync Member** operation is to update the properties for a sync member.

11.1 Request

Request URI

Method	Request URI
PATCH	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serv</code>

```
erName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}?api-version={api-version}
```

Request URI Parameters

Parameter	Description
subscriptionId	The subscriptionID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscriptionID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
syncMemberName	The name of the sync member name within the specified sync group.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

```
{
  "properties": {
    "databaseType": "<databaseType>",
    "userName": "<userName>",
    "password": "<password>"
  }
}
```

Request Body Parameters

The same as the one in [Section 10.1](#).

11.2 Response

Response Status Code

HTTP 202 (Accepted) if the sync member creation/updating is in progress.

HTTP 200 (OK) if the operation is successful.

Response Headers

The same as the one in [Section 10.2](#)

Response Body

For HTTP 200, the response body will contain the full sync member payload (as [Section 10.2](#)) with all the information.

12 Delete Sync Member

The **Delete Sync member** operation deletes an existing sync member in a sync group.

12.1 Request

Request URI

Method	Request URI
DELETE	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
<code>subscriptionId</code>	The subscription ID for the Azure user.
<code>resourceGroupName</code>	The name of the resource group within the user's subscriptionID.
<code>serverName</code>	The azure SQL server name.
<code>databaseName</code>	The azure SQL database name
<code>syncGroupName</code>	The name of the sync Group within the specified resource group, server and database.
<code>syncMemberName</code>	The name of the sync member name within the specified sync group.
<code>api-version</code>	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

12.2 Response

Response Status Code

HTTP 202 (Accepted) if the deletion operation is triggered successfully.

HTTP 204 (No content) if the resource does not exist.

Response Body

If responds HTTP 202 (Accepted), the operation result metadata is responded.

```
{
  "operation": "<operation>",
  "startTime": "<startTime>",
}
```

Response Headers

Header	Description	
<code>Date</code>	The date that the request was processed in RFC 1123 format.	Required
<code>x-ms-request-id</code>	A unique identifier for the current operation, service generated.	Required
<code>Location</code>	<code>https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncMemberOperations/{operationId}?api-version={api-version}</code>	Required
<code>Retry-after</code>	Set to the delay that the client should use when checking for the status	Required

13 Get Sync Member Operation Result

The **Get Sync Member Operation result** operation get the status of the sync Member creation, updating, and deletion by querying the operation id. The URL is returned in the location header in the Sync Member API call response.

13.1 Request

Request URI

Method	Request URI
Get	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncMemberOperationresults/{operationId}?api-version={api-version}

Request URI Parameters

Parameter	Description
subscriptionId	The subscriptionID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
locationName	The location of the azure SQL server name.
operationId	The operation id of the deleting sync group resource.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

13.2 Response

Response Status Code

HTTP 204 (No Content) if the resource is not existed.

HTTP 201 (Create) if the creation operation is finished.

HTTP 200 (OK) if the updating or deletion operation is finished.

HTTP 202 (Accepted) if the deletion operation is still in progress.

Response Headers

Header	Description
Date	The date that the request was processed in RFC 1123 format.
x-ms-request-id	A unique identifier for the current operation, service generated.
Location	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncMemberOperationresults/{operationId}?api-version={api-version}
Retry-after	Set to the delay that the client should use when checking for the status

Response Body

The same as [Section 10.2](#).

14 Get Sync Member Properties

The **Get Sync Member Properties** operation returns the properties for the specified sync member.

14.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
syncMemberName	The name of the sync member name within the specified sync group.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

14.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

The same as the one in [Section 10.2](#).

Response Body Parameters

The same as the one in [Section 10.2](#).

15 List Sync Members in Sync Group

The **List Sync Members in Sync Group** operation lists all the sync members under the given sync group.

15.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

15.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

Formatted list of sync members and their properties.

```
{  
  value:
```

```
[
  {
    <The syncMember payload in Section 10.2>
  }
  ...
]
```

16 Refresh Sync Hub/Member Database Schema

The **Refresh Sync Hub/Member Database schema** operation is to refresh the schema of the hub database in a sync group or the schema of the member database in a sync member.

16.1 Request

Request URI

Method	Request URI
POST	<p>For refreshing member database schema:</p> <p><code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}/refreshSchema?api-version={api-version}</code></p> <p>For refreshing hub database schema:</p> <p><code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}/refreshHubSchema?api-version={api-version}</code></p>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
syncMemberName	The name of the sync member name within the specified sync group.
refreshSchema	The action name.
refreshHubSchema	The action name.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

16.2 Response

Response Status Code

HTTP 202 (OK) if it is accepted.

Response Headers

Header	Description
Date	The date that the request was processed in RFC 1123 format.
x-ms-request-id	A unique identifier for the current operation, service generated.
Location	<p>For refreshing member database schema:</p> <p><code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}/refreshSchemaOperationresults/{operationId}?api-version={api-version}</code></p> <p>For refreshing hub database schema:</p> <p><code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/refreshHubSchemaOperationresults/{operationId}?api-version={api-version}</code></p>
Retry-after	Set to the delay that the client should use when checking for the status

Response Body

N/A

Response Body Elements

N/A

17 Get status of Sync Hub/Member database refresh schema operation

The **Get status of Sync Hub/Member database refresh schema** operation get the status of the sync Hub/Member database refresh schema operation by querying the operation id. The URL is returned in the location header in the refresh Sync Hub/Member database schema API call response.

17.1 Request

Request URI

Method	Request URI
Get	<p>For member database schema refresh:</p> <p><code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}/refreshSchemaOperationResults/{operationId}?api-version={api-version}</code></p> <p>For hub database schema refresh:</p> <p><code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/</code></p>

```
refreshHubSchemaOperationResults/{operationId}?api-version={api-version}
```

Request URI Parameters

Parameter	Description
subscriptionId	The subscriptionID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
syncMemberName	The name of the sync member name within the specified sync group.
operationId	The operation id of the refresh schema operation.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

17.2 Response

Response Status Code

HTTP 200 (OK) if the refresh schema operation is finished.

HTTP 202 (Accepted) if the refresh schema operation is still in progress.

Response Headers

Header	Description
Date	The date that the request was processed in RFC 1123 format.
x-ms-request-id	A unique identifier for the current operation, service generated.
Location	For member database schema refresh: <code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}/refreshSchemaOperationResults/{operationId}?api-version={api-version}</code> For hub database schema refresh: <code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/databases/{databaseName}/syncGroups/{syncGroupName}/refreshHubSchemaOperationResults/{operationId}?api-version={api-version}</code>
Retry-after	Set to the delay that the client should use when checking for the status

Response Body

N/A

18 Get Sync Hub/Member Database Schema

The **Get Sync Hub/Member Database Schema** operation gets the schema of Hub Database of a sync group or the Member Database of a sync member.

18.1 Request

Request URI

Method	Request URI
GET	For member database schema: https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}/syncMembers/{syncMemberName}/schemas?api-version={api-version} For hub database schema: https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}/hubSchemas?api-version={api-version}

Request URI Parameters

Parameter	Description
subscriptionId	The subscriptionID for the Azure user.
resourceGroupName	The name of resource group
serverName	The azure SQL server name.
databaseName	The azure SQL database name
syncGroupName	The name of the sync Group within the specified resource group, server and database.
syncMemberName	The name of the sync member name within the specified sync group.
schema	The action name.
hubSchema	The action name.
api-version	Specifies the version. For the public preview, version “2015-05-01-preview” is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A

Request Body Parameters

N/A

18.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

```
{
  "value":
  [
    "tables": [{
      "columns": [{
        "dataSize": "<dataSize>",
        "dataType": "<dataType>",
        "errorId": "<errorId>",
        "hasError": "<hasError>",
        "isPrimaryKey": "<isPrimaryKey>",
        "name": "<columnName>",
        "quotedName": "<quotedColumnName>"
      },
      ...
      {
        "dataSize": "<dataSize>",
        "dataType": "<dataType>",
        "errorId": "<errorId>",
        "hasError": "<hasError>",
        "isPrimaryKey": "<isPrimaryKey>",
        "name": "<columnName>",
        "quotedName": "<quotedColumnName>"
      }
    ],
    "errorId": "<errorId>",
    "hasError": "<hasError>",
    "name": "<tableName>",
    "quotedName": "<quotedTableName>"
  }, ...
]
  "lastUpdatedTime": "<lastUpdatedTime>"
}
```

19 Create or Update Sync Agent

The **Create or Update Sync Agent** operation creates a new sync agent or update an existing sync agent with the specified parameters.

19.1 Request

Request URI

Method	Request URI
PUT	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/syncAgents/{syncAgentName}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
syncAgentName	The name of the sync agent within the specified resource group. The sync agent names must be between 1 and 200 characters in length and numbers can be lower-case and upper-case letters, and case insensitive.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

```
{
  "properties": {
    "syncDatabaseId": "<syncDatabaseId>"
  }
}
```

Request Body Parameters

Parameter	Description	
syncDatabaseId	The Azure SQL database of which the sync related metadata will be stored. The value is in ARM resource id format: <code>"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/databases/{databaseName}"</code> .	Optional

19.2 Response

Response Status Code

HTTP 202 (Accepted) if the sync group creation/updating is in progress.

HTTP 201 (Created) if the sync group is created.

HTTP 200 (OK) if the update is successful.

Response Headers

Header	Description
--------	-------------

Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
Location	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncAgentOperations/{operationId}?api-version={api-version} This header is only for the case of being with 202 as the responded status code.	Optional
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

If responds HTTP 202 (Accepted), the operation result metadata is responded.

```
{
  "operation": "<operation>",
  "startTime": "<startTime>"
}
```

If responds HTTP 201 (Created) or HTTP 200 (OK), the sync agent metadata is responded

```
{
  "id": "<id>",
  "name": "<name>",
  "type": "<type>"
  "properties": {
    "syncDatabaseId": "<syncDatabaseId>"
    "lastAliveTime": "<lastAliveTime>",
    "state": "<state>",
    "version": "<version>",
    "isUpToDate": "<isUpToDate>",
    "expiryTime": "<expiryTime>"
  }
}
```

Response Body Parameters

Parameter	Description
id	The id field is the URL which excludes the hostname/scheme and API version for the entity. The value will be: "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/syncAgents/{syncAgentName}"
type	It is the resource provider namespace with the type of the entity. The value will be: "Microsoft.sql/syncAgents"
name	The same as the "name" parameter in the request payload
syncDatabaseId	The sync database id.
lastAliveTime	The value indicates the last time that the agent pinged the service.
state	The value indicates the state of the sync agent. Possible value: NeverConnected, Online, Offline.
version	The value indicates the version of the sync agent.
isUpToDate	The value indicates if it is up to date.
expiryTime	The value indicates the expiry time of agent.

20 Generate Sync Agent Key

The **Create or Update Sync Agent** operation generate a registration key for a sync agent.

20.1 Request

Request URI

Method	Request URI
POST	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/syncAgents/{syncAgentName}/generateKey?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
syncAgentName	The name of the sync agent within the specified resource group. The sync agent names must be between 1 and 200 characters in length and numbers can be lower-case and upper-case letters, and case insensitive.
generateKey	Action name.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A

Request Body Parameters

N/A

20.2 Response

Response Status Code

HTTP 200 (OK) if the generating agent key is successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

```
{
  "syncAgentKey": "<syncAgentKey>"
}
```

Response Body Parameters

Parameter	Description
agentKey	The agent key for registering the agent.

21 Delete Sync Agent

The **Delete Sync Agent** operation deletes an existing sync Agent in Windows Azure.

21.1 Request

Request URI

Method	Request URI
DELETE	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/SyncAgents/{syncAgent}?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
syncAgentName	The name of the sync agent within the specified resource group. The sync agent names must be between 1 and 200 characters in length and numbers can be lower-case and upper-case letters, and case insensitive.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

21.2 Response

Response Status Code

HTTP 202 (Accepted) if the deletion operation is triggered successfully.

HTTP 204 (No content) if the resource does not exist.

Response Headers

The same as the one in [Section 1.2](#).

Response Body

If responds HTTP 202 (Accepted), the operation result metadata is responded.

```
{
  "operation": "<operation>",
  "startTime": "<startTime>",
}
```

22 Get Sync Agent Operation Result

The **Get Sync Agent Operation result** operation gets the status of the sync agent creation, updating and deletion by querying the operation id. The URL is from in the location header in the Put and Delete Sync Agent API call response.

22.1 Request

Request URI

Method	Request URI
Get	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncAgentOperationresults/{operationId}?api-version={api-version}

Request URI Parameters

Parameter	Description
subscriptionId	The subscriptionid for the Azure user.
locationName	The name of the location.
operationId	The operation id of the deleting sync agent resource.
api-version	Specifies the version. For the public preview, version “2015-05-01-preview” is used.

Request Headers

The same as [Section 19.2](#).

Request Body

N/A.

22.2 Response

Response Status Code

HTTP 204 (NoContent) if the resource is not existed.
HTTP 201 (Create) if the creation operation is finished.
HTTP 200 (OK) if the update/deletion operation is finished.
HTTP 202 (Accepted) if the deletion operation is still in progress.

Response Headers

Header	Description	
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Location	https://management.azure.com/subscriptions/{subscriptionId}/providers/Microsoft.Sql/locations/{locationName}/syncAgentOperation/results/{operationId}?api-version={api-version}	Required
Retry-after	Set to the delay that the client should use when checking for the status	Required

Response Body

The same as [Section 19.2](#).

23 Get Sync Agent Properties

The **Get Sync Agent Properties** operation returns the properties for the specified sync agent.

23.1 Request

Request URI

Method	Request URI
GET	https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/syncAgents/{syncAgentName}?api-version={api-version}

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
syncAgentName	The name of the sync agent within the specified server.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

23.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

The same as the one in [Section 19.2](#).

Response Body Parameters

The same as the one in [Section 19.2](#).

24 List Sync Agents in a Server

The **List Sync Agents in a Server** operation lists all the sync Agents available under the given Server.

24.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.sql/servers/{serverName}/syncAgents?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
<code>subscriptionId</code>	The subscription ID for the Azure user.
<code>resourceGroupName</code>	The name of the resource group within the user's subscription ID.
<code>serverName</code>	The azure SQL server name.
<code>api-version</code>	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

24.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
<code>Content-Type</code>	Set this header to <i>application/json</i> .	Required
<code>Date</code>	The date that the request was processed in RFC 1123 format.	Required
<code>x-ms-request-id</code>	A unique identifier for the current operation, service generated.	Required

Response Body

Formatted list of sync Groups and their properties.

```
{
  value:
  [
    {
      Payload of SyncAgent in Section 19.2
    },
    ...
  ]
}
```

```

    {
      Payload of SyncAgent in Section 19.2
    }
  ],
  "nextLink": "<nextLink>"
}

```

25 List Linked Databases in Sync Agent

The **List Linked Databases in Sync Agent** operation lists all the SQL Server databases connected by the given sync agent. The SQL Server database is added on the sync agent on-premises configuration tool

25.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/syncAgents/{syncAgentName}/linkedDatabases?api-version={api-version}</code>

Request URI Parameters

Parameter	Description
subscriptionId	The subscription ID for the Azure user.
resourceGroupName	The name of the resource group within the user's subscription ID.
serverName	The azure SQL server name.
syncAgentName	The name of the sync agent within the specified server.
api-version	Specifies the version. For the public preview, version "2015-05-01-preview" is used.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A.

25.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

Formatted list of sync members and their properties.

```
{
  value:
  [
    {
      "id": "<id>",
      "properties":
      {
        "databaseType": "<databaseType>",
        "databaseId": "<databaseId>",
        "description": "<description>",
        "serverName": "<serverName>",
        "databaseName": "<databaseName>",
        "userName": "<userName>"
      }
    }
  ],
  "nextLink": "<nextLink>"
}
```

26 Get Sync Logs of a Sync Group

The **Get Sync Logs** operation returns the logs for a specific sync group with querying criteria in the payload.

26.1 Request

Request URI

Method	Request URI
GET	<code>https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.Sql/servers/{serverName}/Databases/{databaseName}/syncGroups/{syncGroupName}/logs?api-version={api-version}&startTime={startTime}&endTime={endTime}&Type={type}&continuousToken={continueToken}</code>

Request URI Parameters

Parameter	Description
<code>subscriptionId</code>	The subscription ID for the Azure user.
<code>resourceGroupName</code>	The name of the resource group within the user's subscription ID.
<code>syncGroupName</code>	The name of the sync Group within the specified resource group.
<code>api-version</code>	Specifies the version. For the public preview, version "2015-05-01-preview" is used.
<code>startTime</code>	System.DateTime. The start time of the logs
<code>endTime</code>	The end time of the logs to query. If it is not specified, DateTime.UtcNow is as the default value.

type	The log type to query. Possible values: "Error", "Warning", "Success" and "All".
continuousToken	The token for continuous querying the logs.

Request Headers

The same as [Section 1.1](#).

Request Body

N/A

Request Body Parameters

N/A

26.2 Response

Response Status Code

HTTP 200 (OK) if successful.

Response Headers

Header	Description	
Content-Type	Set this header to <i>application/json</i> .	Required
Date	The date that the request was processed in RFC 1123 format.	Required
x-ms-request-id	A unique identifier for the current operation, service generated.	Required

Response Body

```
{
  value: [
    {
      "timeStamp": "<timeStamp>",
      "type": "<type>",
      "source": "<source>",
      "details": "<details>"
    },
    ...
    {
      "timeStamp": "<timeStamp>",
      "type": "<type>",
      "source": "<source>",
      "details": "<details>"
    }
  ],
  "nextLink": "/logs?api-version={api-version}&startTime={startTime}&endTime={endTime}&Type={type}&continuousToken={continueToken}"
}
```

Response Body Parameters

Parameter	Description
timeStamp	DateTime. The time stamp of the log.

type	Enum. The type of the log. Possible values: "Error", "Warning", "Success"
source	String. The source of the logs. E.g. the logs is from SyncAgent, SyncGroup or SyncMember
details	String. The detailed information about the log.
nextLink	The URL for continuing querying the logs in the next API call.