



Datastores - Create Or Update

Reference

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Service: Machine Learning

API Version: 2024-04-01

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Create or update datastore.

HTTP 📄 Copy ▶ Try It

```
PUT https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resou
```

With optional parameters:

HTTP 📄 Copy

```
PUT https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resou
```

URI Parameters

[Expand table](#)

Name	In	Required	Type	Description
<code>name</code>	path	True	string	Datastore name. Regex pattern: <code>^[a-zA-Z0-9][a-zA-Z0-9\-_]</code>

{0,254}\$				
resourceGroupName	path	True	string	The name of the resource group. The name is case insensitive.
subscriptionId	path	True	string	The ID of the target subscription.
workspaceName	path	True	string	Name of Azure Machine Learning workspace. Regex pattern: <code>^[a-zA-Z0-9][a-zA-Z0-9_-]{2,32}\$</code>
api-version	query	True	string	The API version to use for this operation.
skipValidation	query		boolean	Flag to skip validation.

Request Body

[Expand table](#)


Name	Required	Type	Description
properties	True	Datastore: AzureBlobDatastore AzureDataLakeGen1Datastore AzureDataLakeGen2Datastore AzureFileDatastore OneLakeDatastore	[Required] Additional attributes of the entity.

Responses

[Expand table](#)

Name	Type	Description
200 OK	Datastore Resource	Create or update request is successful.
201 Created	Datastore Resource	Created
Other Status Codes	Error Response	Error

Examples

 Expand table

CreateOrUpdate datastore (Azure Data Lake Gen1 w/ ServicePrincipal).
CreateOrUpdate datastore (Azure Data Lake Gen2 w/ Service Principal).
CreateOrUpdate datastore (Azure File store w/ AccountKey).
CreateOrUpdate datastore (AzureBlob w/ AccountKey).

CreateOrUpdate datastore (Azure Data Lake Gen1 w/ Service Principal).

Sample request

HTTP

HTTP

Copy

```
PUT https://management.azure.com/subscriptions/00000000-1111-2222-3333-444444444444

{
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
  },
  "properties": null,
  "credentials": {
    "credentialsType": "ServicePrincipal",
    "authorityUrl": "string",
    "resourceUrl": "string",
    "tenantId": "00000000-1111-2222-3333-444444444444",
    "clientId": "00000000-1111-2222-3333-444444444444",
    "secrets": {
      "secretsType": "ServicePrincipal",
      "clientSecret": "string"
    }
  },
  "datastoreType": "AzureDataLakeGen1",
  "storeName": "string"
}
```

Sample response

Status code: 200

JSON

 Copy

```
{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
  },
  "properties": null,
  "credentials": {
    "credentialsType": "ServicePrincipal",
    "authorityUrl": "string",
    "resourceUrl": "string",
    "tenantId": "00000000-1111-2222-3333-444444444444",
    "clientId": "00000000-1111-2222-3333-444444444444",
    "secrets": {
      "secretsType": "ServicePrincipal"
    }
  },
  "datastoreType": "AzureDataLakeGen1",
  "storeName": "string",
},
"systemData": {
  "createdAt": "2020-01-01T12:34:56.999Z",
  "createdBy": "string",
  "createdByType": "User",
  "lastModifiedAt": "2020-01-01T12:34:56.999Z",
  "lastModifiedBy": "string",
  "lastModifiedByType": "User"
}
}
```

Status code: 201

JSON

 Copy

```
{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
```

```

    "description": "string",
    "tags": {
      "string": "string"
    },
    "properties": null,
    "credentials": {
      "credentialsType": "ServicePrincipal",
      "authorityUrl": "string",
      "resourceUrl": "string",
      "tenantId": "00000000-1111-2222-3333-444444444444",
      "clientId": "00000000-1111-2222-3333-444444444444",
      "secrets": {
        "secretsType": "ServicePrincipal"
      }
    },
    "datastoreType": "AzureDataLakeGen1",
    "storeName": "string"
  },
  "systemData": {
    "createdAt": "2020-01-01T12:34:56.999Z",
    "createdBy": "string",
    "createdByType": "User",
    "lastModifiedAt": "2020-01-01T12:34:56.999Z",
    "lastModifiedBy": "string",
    "lastModifiedByType": "User"
  }
}


```

CreateOrUpdate datastore (Azure Data Lake Gen2 w/ Service Principal).

Sample request

HTTP

HTTP

 Copy

```

PUT https://management.azure.com/subscriptions/00000000-1111-2222-3333-444444444444

{
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
  },
  "properties": null,
  "credentials": {
    "credentialsType": "ServicePrincipal",

```

```

    "authorityUrl": "string",
    "resourceUrl": "string",
    "tenantId": "00000000-1111-2222-3333-444444444444",
    "clientId": "00000000-1111-2222-3333-444444444444",
    "secrets": {
      "secretsType": "ServicePrincipal",
      "clientSecret": "string"
    }
  },
  "datastoreType": "AzureDataLakeGen2",
  "filesystem": "string",
  "accountName": "string",
  "endpoint": "string",
  "protocol": "string"
}

```

Sample response

Status code: 200

JSON

 Copy

```

{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    }
  },
  "properties": null,
  "credentials": {
    "credentialsType": "ServicePrincipal",
    "authorityUrl": "string",
    "resourceUrl": "string",
    "tenantId": "00000000-1111-2222-3333-444444444444",
    "clientId": "00000000-1111-2222-3333-444444444444",
    "secrets": {
      "secretsType": "ServicePrincipal"
    }
  },
  "datastoreType": "AzureDataLakeGen2",
  "filesystem": "string",
  "accountName": "string",
  "endpoint": "string",
  "protocol": "string"
},

```

```
"systemData": {
  "createdAt": "2020-01-01T12:34:56.999Z",
  "createdBy": "string",
  "createdByType": "User",
  "lastModifiedAt": "2020-01-01T12:34:56.999Z",
  "lastModifiedBy": "string",
  "lastModifiedByType": "User"
}
```

Status code: 201

JSON

 Copy

```
{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
  },
  "properties": null,
  "credentials": {
    "credentialsType": "ServicePrincipal",
    "authorityUrl": "string",
    "resourceUrl": "string",
    "tenantId": "00000000-1111-2222-3333-444444444444",
    "clientId": "00000000-1111-2222-3333-444444444444",
    "secrets": {
      "secretsType": "ServicePrincipal"
    }
  },
  "datastoreType": "AzureDataLakeGen2",
  "filesystem": "string",
  "accountName": "string",
  "endpoint": "string",
  "protocol": "string"
},
"systemData": {
  "createdAt": "2020-01-01T12:34:56.999Z",
  "createdBy": "string",
  "createdByType": "User",
  "lastModifiedAt": "2020-01-01T12:34:56.999Z",
  "lastModifiedBy": "string",
  "lastModifiedByType": "User"
}
```

CreateOrUpdate datastore (Azure File store w/ AccountKey).

Sample request

HTTP

HTTP

 Copy

PUT https://management.azure.com/subscriptions/00000000-1111-2222-3333-444444444444

```
{
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
  },
  "properties": null,
  "credentials": {
    "credentialsType": "AccountKey",
    "secrets": {
      "secretsType": "AccountKey",
      "key": "string"
    }
  },
  "datastoreType": "AzureFile",
  "accountName": "string",
  "fileShareName": "string",
  "endpoint": "string",
  "protocol": "string"
}
```

Sample response

Status code: 200

JSON

 Copy

```
{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    }
  }
}
```



```

    },
    "properties": null,
    "credentials": {
      "credentialsType": "AccountKey",
      "secrets": {
        "secretsType": "AccountKey"
      }
    },
    "datastoreType": "AzureFile",
    "accountName": "string",
    "fileShareName": "string",
    "endpoint": "string",
    "protocol": "string"
  },
  "systemData": {
    "createdAt": "2020-01-01T12:34:56.999Z",
    "createdBy": "string",
    "createdByType": "User",
    "lastModifiedAt": "2020-01-01T12:34:56.999Z",
    "lastModifiedBy": "string",
    "lastModifiedByType": "User"
  }
}

```

Status code: 201

JSON

 Copy

```

{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
  },
  "properties": null,
  "credentials": {
    "credentialsType": "AccountKey",
    "secrets": {
      "secretsType": "AccountKey"
    }
  },
  "datastoreType": "AzureFile",
  "accountName": "string",
  "fileShareName": "string",
  "endpoint": "string",
  "protocol": "string"
},
"systemData": {

```

```
    "createdAt": "2020-01-01T12:34:56.999Z",
    "createdBy": "string",
    "createdByType": "User",
    "lastModifiedAt": "2020-01-01T12:34:56.999Z",
    "lastModifiedBy": "string",
    "lastModifiedByType": "User"
  }
}
```

CreateOrUpdate datastore (AzureBlob w/ AccountKey).

Sample request

HTTP

HTTP

 Copy

PUT https://management.azure.com/subscriptions/00000000-1111-2222-3333-444444444444

```
{
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
  },
  "properties": null,
  "credentials": {
    "credentialsType": "AccountKey",
    "secrets": {
      "secretsType": "AccountKey",
      "key": "string"
    }
  },
  "datastoreType": "AzureBlob",
  "accountName": "string",
  "containerName": "string",
  "endpoint": "core.windows.net",
  "protocol": "https"
}
```

Sample response

Status code: 200

```
{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
    "isDefault": false,
    "properties": null,
    "credentials": {
      "credentialsType": "AccountKey",
      "secrets": {
        "secretsType": "AccountKey"
      }
    },
    "datastoreType": "AzureBlob",
    "accountName": "string",
    "containerName": "string",
    "endpoint": "core.windows.net",
    "protocol": "https"
  },
  "systemData": {
    "createdAt": "2020-01-01T12:34:56.999Z",
    "createdBy": "string",
    "createdByType": "User",
    "lastModifiedAt": "2020-01-01T12:34:56.999Z",
    "lastModifiedBy": "string",
    "lastModifiedByType": "User"
  }
}
```

Status code: 201


```
{
  "id": "string",
  "name": "string",
  "type": "string",
  "properties": {
    "description": "string",
    "tags": {
      "string": "string"
    },
    "isDefault": false,
    "properties": null,
    "credentials": {
```

```

    "credentialsType": "AccountKey",
    "secrets": {
      "secretsType": "AccountKey"
    }
  },
  "datastoreType": "AzureBlob",
  "accountName": "string",
  "containerName": "string",
  "endpoint": "core.windows.net",
  "protocol": "https"
},
"systemData": {
  "createdAt": "2020-01-01T12:34:56.999Z",
  "createdBy": "string",
  "createdByType": "User",
  "lastModifiedAt": "2020-01-01T12:34:56.999Z",
  "lastModifiedBy": "string",
  "lastModifiedByType": "User"
}
}

```

Definitions


 Expand table

Name	Description
AccountKeyDatastoreCredentials	Account key datastore credentials configuration.
AccountKeyDatastoreSecrets	Datastore account key secrets.
AzureBlobDatastore	Azure Blob datastore configuration.
AzureDataLakeGen1Datastore	Azure Data Lake Gen1 datastore configuration.
AzureDataLakeGen2Datastore	Azure Data Lake Gen2 datastore configuration.
AzureFileDatastore	Azure File datastore configuration.
CertificateDatastoreCredentials	Certificate datastore credentials configuration.
CertificateDatastoreSecrets	Datastore certificate secrets.
createdByType	The type of identity that created the resource.
CredentialsType	Enum to determine the datastore credentials type.
DatastoreResource	Azure Resource Manager resource envelope.
DatastoreType	Enum to determine the datastore contents type.

ErrorAdditionalInfo	The resource management error additional info.
ErrorDetail	The error detail.
ErrorResponse	Error response
LakeHouseArtifact	
NoneDatastoreCredentials	Empty/none datastore credentials.
OneLakeArtifactType	Enum to determine OneLake artifact type.
OneLakeDatastore	OneLake (Trident) datastore configuration.
SasDatastoreCredentials	SAS datastore credentials configuration.
SasDatastoreSecrets	Datastore SAS secrets.
SecretsType	Enum to determine the datastore secrets type.
ServiceDataAccessAuthIdentity	
ServicePrincipalDatastore Credentials	Service Principal datastore credentials configuration.
ServicePrincipalDatastoreSecrets	Datastore Service Principal secrets.
systemData	Metadata pertaining to creation and last modification of the resource.

AccountKeyDatastoreCredentials

Account key datastore credentials configuration.

 Expand table

Name	Type	Description
credentialsType	string: AccountKey	[Required] Credential type used to authentication with storage.
secrets	AccountKey Datastore Secrets	[Required] Storage account secrets.

AccountKeyDatastoreSecrets

Datastore account key secrets.

 Expand table

Name	Type	Description
key	string	Storage account key.
secretsType	string: AccountKey	[Required] Credential type used to authentication with storage.

AzureBlobDatastore

Azure Blob datastore configuration.

 Expand table

Name	Type	Default value	Description
accountName	string		Storage account name.
containerName	string		Storage account container name.
credentials	DatastoreCredentials: AccountKey DatastoreCredentials CertificateDatastore Credentials NoneDatastore Credentials SasDatastore Credentials ServicePrincipal DatastoreCredentials		[Required] Account credentials.
datastoreType	string: AzureBlob		[Required] Storage type backing the datastore.
description	string		The asset description text.
endpoint	string		Azure cloud endpoint for the storage account.
isDefault	boolean		Readonly property to indicate if

			datastore is the workspace default datastore
properties	object		The asset property dictionary.
protocol	string		Protocol used to communicate with the storage account.
resourceGroup	string		Azure Resource Group name
serviceDataAccessAuthIdentity	ServiceDataAccessAuthIdentity	None	Indicates which identity to use to authenticate service data access to customer's storage.
subscriptionId	string		Azure Subscription Id
tags	object		Tag dictionary. Tags can be added, removed, and updated.

AzureDataLakeGen1Datastore

Azure Data Lake Gen1 datastore configuration.


[Expand table](#)

Name	Type	Default value	Description
credentials	DatastoreCredentials: AccountKey DatastoreCredentials CertificateDatastore Credentials NoneDatastore Credentials SasDatastore Credentials ServicePrincipal DatastoreCredentials		[Required] Account credentials.
datastoreType	string: AzureDataLakeGen1		[Required] Storage type backing the datastore.
description	string		The asset description text.
isDefault	boolean		Readonly property to indicate if datastore is the workspace

		default datastore
properties	object	The asset property dictionary.
resourceGroup	string	Azure Resource Group name
serviceDataAccessAuthIdentity	ServiceDataAccessAuthIdentity	None Indicates which identity to use to authenticate service data access to customer's storage.
storeName	string	[Required] Azure Data Lake store name.
subscriptionId	string	Azure Subscription Id
tags	object	Tag dictionary. Tags can be added, removed, and updated.

AzureDataLakeGen2Datastore

Azure Data Lake Gen2 datastore configuration.


 Expand table

Name	Type	Default value	Description
accountName	string		[Required] Storage account name.
credentials	DatastoreCredentials: AccountKey DatastoreCredentials CertificateDatastore Credentials NoneDatastore Credentials SasDatastore Credentials ServicePrincipal DatastoreCredentials		[Required] Account credentials.
datastoreType	string: AzureDataLakeGen2		[Required] Storage type backing the datastore.
description	string		The asset description text.
endpoint	string		Azure cloud endpoint for the

			storage account.
filesystem	string		[Required] The name of the Data Lake Gen2 filesystem.
isDefault	boolean		Readonly property to indicate if datastore is the workspace default datastore
properties	object		The asset property dictionary.
protocol	string		Protocol used to communicate with the storage account.
resourceGroup	string		Azure Resource Group name
serviceDataAccessAuthIdentity	ServiceDataAccessAuthIdentity	None	Indicates which identity to use to authenticate service data access to customer's storage.
subscriptionId	string		Azure Subscription Id
tags	object		Tag dictionary. Tags can be added, removed, and updated.

AzureFileDatastore

Azure File datastore configuration.


 Expand table

Name	Type	Default value	Description
accountName	string		[Required] Storage account name.
credentials	DatastoreCredentials: AccountKey DatastoreCredentials CertificateDatastore Credentials NoneDatastore Credentials SasDatastore Credentials ServicePrincipal DatastoreCredentials		[Required] Account credentials.

datastoreType	string: AzureFile	[Required] Storage type backing the datastore.
description	string	The asset description text.
endpoint	string	Azure cloud endpoint for the storage account.
fileShareName	string	[Required] The name of the Azure file share that the datastore points to.
isDefault	boolean	Readonly property to indicate if datastore is the workspace default datastore
properties	object	The asset property dictionary.
protocol	string	Protocol used to communicate with the storage account.
resourceGroup	string	Azure Resource Group name
serviceDataAccessAuthIdentity	ServiceDataAccessAuthIdentity None	Indicates which identity to use to authenticate service data access to customer's storage.
subscriptionId	string	Azure Subscription Id
tags	object	Tag dictionary. Tags can be added, removed, and updated.

CertificateDatastoreCredentials

Certificate datastore credentials configuration.

 Expand table

Name	Type	Description
authorityUrl	string	Authority URL used for authentication.
clientId	string	[Required] Service principal client ID.
credentialsType	string: Certificate	[Required] Credential type used to authentication with storage.

resourceUrl	string	Resource the service principal has access to.
secrets	Certificate Datastore Secrets	[Required] Service principal secrets.
tenantId	string	[Required] ID of the tenant to which the service principal belongs.
thumbprint	string	[Required] Thumbprint of the certificate used for authentication.

CertificateDatastoreSecrets

Datastore certificate secrets.

[Expand table](#)

Name	Type	Description
certificate	string	Service principal certificate.
secretsType	string: Certificate	[Required] Credential type used to authentication with storage.

createdByType

The type of identity that created the resource.

[Expand table](#)

Name	Type	Description
Application	string	
Key	string	
ManagedIdentity	string	
User	string	

CredentialsType

Enum to determine the datastore credentials type.

[Expand table](#)

Name	Type	Description
AccountKey	string	
Certificate	string	
None	string	
Sas	string	
ServicePrincipal	string	

DatastoreResource

Azure Resource Manager resource envelope.


[Expand table](#)

Name	Type	Description
id	string	Fully qualified resource ID for the resource. Ex - /subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/prov
name	string	The name of the resource
properties	Datastore: AzureBlob Datastore AzureDataLake Gen1Datastore AzureDataLake Gen2Datastore AzureFile Datastore OneLake Datastore	[Required] Additional attributes of the entity.
systemData	systemData	Azure Resource Manager metadata containing createdBy and modifiedBy in
type	string	The type of the resource. E.g. "Microsoft.Compute/virtualMachines" or "Micr



DatastoreType


Enum to determine the datastore contents type.

 Expand table

Name	Type	Description
AzureBlob	string	
AzureDataLakeGen1	string	
AzureDataLakeGen2	string	
AzureFile	string	
OneLake	string	

ErrorAdditionalInfo


The resource management error additional info.

 Expand table

Name	Type	Description
info	object	The additional info.
type	string	The additional info type.

ErrorDetail

The error detail.

 Expand table

Name	Type	Description
additionalInfo	ErrorAdditionalInfo[]	The error additional info.
code	string	The error code.
details	ErrorDetail[]	The error details.
message	string	The error message.
target	string	The error target.

ErrorResponse

Error response

[Expand table](#)

Name	Type	Description
error	ErrorDetail	The error object.

LakeHouseArtifact

[Expand table](#)

Name	Type	Description
artifactName	string	[Required] OneLake artifact name
artifactType	string: LakeHouse	[Required] OneLake artifact type

NoneDatastoreCredentials

Empty/none datastore credentials.

[Expand table](#)

Name	Type	Description
credentialsType	string: None	[Required] Credential type used to authentication with storage.

OneLakeArtifactType


Enum to determine OneLake artifact type.

[Expand table](#)

Name	Type	Description
------	------	-------------

OneLakeDatastore

OneLake (Trident) datastore configuration.

 Expand table

Name	Type	Default value	Description
artifact	OneLakeArtifact: LakeHouseArtifact		[Required] OneLake artifact backing the datastore.
credentials	DatastoreCredentials: AccountKey DatastoreCredentials CertificateDatastore Credentials NoneDatastore Credentials SasDatastore Credentials ServicePrincipal DatastoreCredentials		[Required] Account credentials.
datastoreType	string: OneLake		[Required] Storage type backing the datastore.
description	string		The asset description text.
endpoint	string		OneLake endpoint to use for the datastore.
isDefault	boolean		Readonly property to indicate if datastore is the workspace default datastore
oneLakeWorkspaceName	string		[Required] OneLake workspace name.
properties	object		The asset property dictionary.
serviceDataAccessAuthIdentity	ServiceDataAccess AuthIdentity	None	Indicates which identity to use to authenticate service data access to customer's storage.


tags

object

Tag dictionary. Tags can be added, removed, and updated.

SasDatastoreCredentials


SAS datastore credentials configuration.

 Expand table

Name	Type	Description
credentialsType	string: Sas	[Required] Credential type used to authentication with storage.
secrets	SasDatastore Secrets	[Required] Storage container secrets.

SasDatastoreSecrets


Datastore SAS secrets.

 Expand table

Name	Type	Description
sasToken	string	Storage container SAS token.
secretsType	string: Sas	[Required] Credential type used to authentication with storage.

SecretsType

Enum to determine the datastore secrets type.

 Expand table

Name	Type	Description
AccountKey	string	
Certificate	string	

Sas	string
ServicePrincipal	string

ServiceDataAccessAuthIdentity

[Expand table](#)

Name	Type	Description
None	string	Do not use any identity for service data access.
WorkspaceSystemAssignedIdentity	string	Use the system assigned managed identity of the Workspace to authenticate service data access.
WorkspaceUserAssignedIdentity	string	Use the user assigned managed identity of the Workspace to authenticate service data access.

ServicePrincipalDatastoreCredentials


Service Principal datastore credentials configuration.

[Expand table](#)

Name	Type	Description
authorityUrl	string	Authority URL used for authentication.
clientId	string	[Required] Service principal client ID.
credentialsType	string: Service Principal	[Required] Credential type used to authentication with storage.
resourceUrl	string	Resource the service principal has access to.
secrets	Service Principal Datastore Secrets	[Required] Service principal secrets.
tenantId	string	[Required] ID of the tenant to which the service principal belongs.

ServicePrincipalDatastoreSecrets

Datastore Service Principal secrets.

 Expand table


Name	Type	Description
clientSecret	string	Service principal secret.
secretsType	string: Service Principal	[Required] Credential type used to authentication with storage.

systemData



Metadata pertaining to creation and last modification of the resource.

 Expand table

Name	Type	Description
createdAt	string	The timestamp of resource creation (UTC).
createdBy	string	The identity that created the resource.
createdByType	created ByType	The type of identity that created the resource.
lastModifiedAt	string	The timestamp of resource last modification (UTC)
lastModifiedBy	string	The identity that last modified the resource.
lastModifiedByType	created ByType	The type of identity that last modified the resource.

 English (United States)


 Your Privacy Choices

 Theme 


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