

Package ‘notebookutils’

May 9, 2026

Title Dummy R APIs Used in 'Azure Synapse Analytics' for Local Developments

Version 1.6.2

Description

This is a pure dummy interfaces package which mirrors 'MsSparkUtils' APIs <<https://learn.microsoft.com/en-us/azure/synapse-analytics/spark/microsoft-spark-utilities? pivots=programming-language-r>> of 'Azure Synapse Analytics' <<https://learn.microsoft.com/en-us/azure/synapse-analytics/>> for R users, customer of Azure Synapse can download this package from CRAN for local development.

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.3.3

Suggests knitr, rmarkdown

VignetteBuilder knitr

Maintainer runtimeexp <runtimeexpdg@microsoft.com>

Author runtimeexp [aut, cre],
Microsoft [cph]

NeedsCompilation no

Repository CRAN

Date/Publication 2026-01-26 08:40:02 UTC

Contents

| | |
|---|---|
| display | 4 |
| display.config | 5 |
| display.configCustomOptions | 6 |
| displayHTML | 6 |
| mssparkutils.credentials.getConnectionStringOrCreds | 7 |
| mssparkutils.credentials.getFullConnectionString | 7 |
| mssparkutils.credentials.getPropertiesAll | 8 |
| mssparkutils.credentials.getSecret | 8 |
| mssparkutils.credentials.getSecretWithLS | 9 |

| | |
|--|----|
| mssparkutils.credentials.getToken | 10 |
| mssparkutils.credentials.help | 10 |
| mssparkutils.credentials.isValidToken | 11 |
| mssparkutils.credentials.putSecret | 11 |
| mssparkutils.credentials.putSecretWithLS | 12 |
| mssparkutils.env.getClusterId | 13 |
| mssparkutils.env.getJobId | 13 |
| mssparkutils.env.getPoolName | 14 |
| mssparkutils.env.getUserId | 14 |
| mssparkutils.env.getUserName | 15 |
| mssparkutils.env.getWorkspaceName | 15 |
| mssparkutils.env.help | 16 |
| mssparkutils.fs.append | 16 |
| mssparkutils.fs.cp | 17 |
| mssparkutils.fs.exists | 17 |
| mssparkutils.fs.fastcp | 18 |
| mssparkutils.fs.getMountPath | 19 |
| mssparkutils.fs.head | 19 |
| mssparkutils.fs.help | 20 |
| mssparkutils.fs.ls | 21 |
| mssparkutils.fs.mkdirs | 21 |
| mssparkutils.fs.mount | 22 |
| mssparkutils.fs.mounts | 22 |
| mssparkutils.fs.mountToDriverNode | 23 |
| mssparkutils.fs.mv | 23 |
| mssparkutils.fs.put | 24 |
| mssparkutils.fs.refreshMounts | 25 |
| mssparkutils.fs.rm | 25 |
| mssparkutils.fs.unmount | 26 |
| mssparkutils.fs.unmountFromDriverNode | 26 |
| mssparkutils.help | 27 |
| mssparkutils.lakehouse.create | 27 |
| mssparkutils.lakehouse.delete | 28 |
| mssparkutils.lakehouse.get | 28 |
| mssparkutils.lakehouse.help | 29 |
| mssparkutils.lakehouse.list | 29 |
| mssparkutils.lakehouse.update | 30 |
| mssparkutils.nbResPath | 30 |
| mssparkutils.notebook.exit | 31 |
| mssparkutils.notebook.help | 31 |
| mssparkutils.notebook.run | 32 |
| mssparkutils.notebook.runMultiple | 33 |
| mssparkutils.notebook.updateNBSEndpoint | 33 |
| mssparkutils.notebook.validateDAG | 34 |
| mssparkutils.runtime.context | 34 |
| mssparkutils.runtime.setHcReplId | 35 |
| mssparkutils.session.stop | 35 |
| notebookutils.conf.get | 36 |

| | |
|--|----|
| notebookutils.conf.set | 36 |
| notebookutils.connections.getCredential | 37 |
| notebookutils.connections.getHelpString | 37 |
| notebookutils.credentials.getConnectionStringOrCreds | 38 |
| notebookutils.credentials.getFullConnectionString | 38 |
| notebookutils.credentials.getPropertiesAll | 39 |
| notebookutils.credentials.getSecret | 39 |
| notebookutils.credentials.getSecretWithLS | 40 |
| notebookutils.credentials.getToken | 41 |
| notebookutils.credentials.help | 41 |
| notebookutils.credentials.isValidToken | 42 |
| notebookutils.credentials.putSecret | 42 |
| notebookutils.credentials.putSecretWithLS | 43 |
| notebookutils.env.getClusterId | 44 |
| notebookutils.env.getJobId | 44 |
| notebookutils.env.getPoolName | 45 |
| notebookutils.env.getUserId | 45 |
| notebookutils.env.getUserName | 46 |
| notebookutils.env.getWorkspaceName | 46 |
| notebookutils.env.help | 47 |
| notebookutils.fabricClient.delete | 47 |
| notebookutils.fabricClient.get | 48 |
| notebookutils.fabricClient.help | 48 |
| notebookutils.fabricClient.listCapacities | 49 |
| notebookutils.fabricClient.patch | 49 |
| notebookutils.fabricClient.post | 50 |
| notebookutils.fabricClient.put | 50 |
| notebookutils.fs.append | 51 |
| notebookutils.fs.cp | 51 |
| notebookutils.fs.exists | 52 |
| notebookutils.fs.fastcp | 53 |
| notebookutils.fs.getMountPath | 53 |
| notebookutils.fs.head | 54 |
| notebookutils.fs.help | 55 |
| notebookutils.fs.ls | 55 |
| notebookutils.fs.mkdirs | 56 |
| notebookutils.fs.mount | 57 |
| notebookutils.fs.mounts | 57 |
| notebookutils.fs.mountToDriverNode | 58 |
| notebookutils.fs.mv | 58 |
| notebookutils.fs.put | 59 |
| notebookutils.fs.refreshMounts | 60 |
| notebookutils.fs.rm | 60 |
| notebookutils.fs.unmount | 61 |
| notebookutils.fs.unmountFromDriverNode | 61 |
| notebookutils.help | 62 |
| notebookutils.initialize | 62 |
| notebookutils.lakehouse.create | 63 |

| | |
|---|----|
| notebookutils.lakehouse.delete | 63 |
| notebookutils.lakehouse.get | 64 |
| notebookutils.lakehouse.getDefinition | 64 |
| notebookutils.lakehouse.getWithProperties | 65 |
| notebookutils.lakehouse.help | 65 |
| notebookutils.lakehouse.list | 66 |
| notebookutils.lakehouse.listTables | 66 |
| notebookutils.lakehouse.loadTable | 67 |
| notebookutils.lakehouse.update | 67 |
| notebookutils.lakehouse.updateDefinition | 68 |
| notebookutils.nbResPath | 68 |
| notebookutils.notebook.create | 69 |
| notebookutils.notebook.delete | 69 |
| notebookutils.notebook.exit | 70 |
| notebookutils.notebook.get | 70 |
| notebookutils.notebook.help | 71 |
| notebookutils.notebook.list | 71 |
| notebookutils.notebook.run | 72 |
| notebookutils.notebook.update | 73 |
| notebookutils.notebook.updateDefinition | 73 |
| notebookutils.notebook.updateNBSEndpoint | 74 |
| notebookutils.notebook.validateDAG | 74 |
| notebookutils.runtime.context | 75 |
| notebookutils.runtime.help | 76 |
| notebookutils.runtime.setHcReplId | 76 |
| notebookutils.session.stop | 77 |
| notebookutils.udf.getFunctions | 77 |
| notebookutils.udf.getHelpString | 78 |
| notebookutils.udf.help | 78 |
| notebookutils.udf.run | 79 |
| notebookutils.variableLibrary.get | 79 |
| notebookutils.variableLibrary.getHelpString | 80 |
| notebookutils.variableLibrary.getLibrary | 80 |

Index**81**

`display`*Set the dataframe info which needs to be visualized.*

Description

Set the dataframe info which needs to be visualized.

Usage`display(dataFrame, isSummary = FALSE)`

Arguments

dataFrame the dataframe that needs to be visualized.
 isSummary whether show summary info of the dataframe.

Value

No return value, show the first part of passed dataframe.

Examples

```
data <- list(56,78,90,45,67)
df <- data.frame(t(sapply(data,c)))
display(df)
display(df, TRUE)
```

| | |
|----------------|---|
| display.config | <i>Set the chart config metadata for current dataframe (set by display) which needs to be visualized.</i> |
|----------------|---|

Description

Set the chart config metadata for current dataframe (set by display) which needs to be visualized.

Usage

```
display.config(
  commId,
  lastCommId = NULL,
  binsNumber = 10,
  category = "table",
  keys = NULL,
  values = NULL,
  series = NULL,
  aggregation = NULL,
  column = NULL
)
```

Arguments

commId the id used to identify whether the API call from synapse notebook js client.
 lastCommId same with id parameter, but the previous value.
 binsNumber bins number for rendering histogram, default is 10.
 category the chart category as bar, line, default is table.
 keys the column names which useds to render x-axis.
 values the column names which used to render y-axis.

| | |
|-------------|---|
| series | the column which used to render the chart series |
| aggregation | the aggregation operation type: sum, avg, min, max, count. |
| column | will be deprecated: the column name used to calculate the statistic info, as the column type, unique values, missing values, etc. |

display.configCustomOptions

Set the visualizer custom options related to the current dataframe, it will be consumed when executing display.

Description

Set the visualizer custom options related to the current dataframe, it will be consumed when executing display.

Usage

```
display.configCustomOptions(options)
```

Arguments

| | |
|---------|--|
| options | custom options serialized from JSON format |
|---------|--|

displayHTML

Construct an specific html fragment to synapse notebook front-end for rendering based on user-input html content.

Description

Construct an specific html fragment to synapse notebook front-end for rendering based on user-input html content.

Usage

```
displayHTML(content)
```

Arguments

| | |
|---------|--|
| content | html content which user want to render |
|---------|--|

Value

No return value, print the content to mimic the render behavior when used in azure synapse runtime.

Examples

```
displayHTML('<b>Hello world!</b>')
```

```
mssparkutils.credentials.getConnectionStringOrCreds
```

Take linked service name as input and return connection string or credentials depending on the configuration of the linked service.

Description

Take linked service name as input and return connection string or credentials depending on the configuration of the linked service.

Usage

```
mssparkutils.credentials.getConnectionStringOrCreds(linkedService)
```

Arguments

linkedService Linked service name.

Value

A empty string used to mimic credentials returned by azure synapse runtime for linkedService.

Examples

```
mssparkutils.credentials.getConnectionStringOrCreds('AzureDataLakeStorage1')
```

```
mssparkutils.credentials.getFullConnectionString
```

Take linked service name as input and return full connection string with credentials.

Description

Take linked service name as input and return full connection string with credentials.

Usage

```
mssparkutils.credentials.getFullConnectionString(linkedService)
```

Arguments

linkedService Linked service name.

Value

A empty string used to mimic connection string returned by azure synapse runtime for linkedService.

Examples

```
mssparkutils.credentials.getConnectionStringOrCreds('AzureDataLakeStorage1')
```

```
mssparkutils.credentials.getPropertiesAll
```

Return all the properties of a given linked service in string format.

Description

Return all the properties of a given linked service in string format.

Usage

```
mssparkutils.credentials.getPropertiesAll(linkedService)
```

Arguments

linkedService Linked service name.

Value

A empty string used to mimic properties string returned by azure synapse runtime for linkedService.

Examples

```
mssparkutils.credentials.getPropertiesAll('AzureDataLakeStorage1')
```

```
mssparkutils.credentials.getSecret
```

Return AKV secret.

Description

Return AKV secret.

Usage

```
mssparkutils.credentials.getSecret(akvName, secret, linkedService = NULL)
```

Arguments

akvName Azure Key Vault name.

secret name of the secret being fetched.

linkedService linkedService name of the AKV linked service.

Value

A empty string used to mimic secret returned by azure synapse runtime for given akvName and secret.

Examples

```
mssparkutils.credentials.getSecret('akvName', 'secretName')  
mssparkutils.credentials.getSecret('akvName', 'secretName', 'AzureDataLakeStorage1')
```

```
mssparkutils.credentials.getSecretWithLS  
Return AKV secret using linkedService.
```

Description

Return AKV secret using linkedService.

Usage

```
mssparkutils.credentials.getSecretWithLS(linkedService, secret)
```

Arguments

- linkedService linkedService name of the AKV linked service.
- secret name of the secret being fetched.

Value

A empty string used to mimic secret returned by azure synapse runtime for given linkedService and secret.

Examples

```
mssparkutils.credentials.getSecretWithLS('AzureDataLakeStorage1', 'secretName')
```

```
mssparkutils.credentials.getToken  
Get AAD token for a resource.
```

Description

Get AAD token for a resource.

Usage

```
mssparkutils.credentials.getToken(audience, name = "")
```

Arguments

| | |
|----------|-----------------|
| audience | token audience. |
| name | token audience. |

Value

A empty string used to mimic token returned by azure synapse runtime for accessing resource audience.

Examples

```
mssparkutils.credentials.getToken('synapse')  
mssparkutils.credentials.getToken('storage')  
mssparkutils.credentials.getToken('storage', 'storage')
```

```
mssparkutils.credentials.help  
Get help message.
```

Description

Get help message.

Usage

```
mssparkutils.credentials.help()
```

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils credentials module when used in azure synapse runtime.

Examples

```
mssparkutils.credentials.help()
```

```
mssparkutils.credentials.isValidToken
```

Returns true if the input token is valid (i.e, hasn't expired).

Description

Returns true if the input token is valid (i.e, hasn't expired).

Usage

```
mssparkutils.credentials.isValidToken(token)
```

Arguments

token token to validate.

Value

FALSE to mimic the result if token is invalid.

Examples

```
mssparkutils.credentials.isValidToken('dummyToken')
```

```
mssparkutils.credentials.putSecret
```

Put AKV secret using with or without linkedService.

Description

Put AKV secret using with or without linkedService.

Usage

```
mssparkutils.credentials.putSecret(  
  akvName,  
  secretName,  
  secretValue,  
  linkedService = NULL  
)
```

Arguments

| | |
|---------------|------------------------------------|
| akvName | Azure Key Vault name. |
| secretName | name of the secret being written. |
| secretValue | value of the secret being written. |
| linkedService | name of the AKV linked service. |

Value

The secretValue been written.

Examples

```
mssparkutils.credentials.putSecret('akvName', 'secretName', 'secretValue')
mssparkutils.credentials.putSecret('akvName', 'secretName', 'secretValue', 'AzureDataLakeStorage1')
```

```
mssparkutils.credentials.putSecretWithLS
    Put AKV secret using linkedService.
```

Description

Put AKV secret using linkedService.

Usage

```
mssparkutils.credentials.putSecretWithLS(
    linkedService,
    secretName,
    secretValue
)
```

Arguments

| | |
|---------------|------------------------------------|
| linkedService | name of AKV linked service. |
| secretName | name of the secret being written. |
| secretValue | value of the secret being written. |

Value

The secretValue been written.

Examples

```
mssparkutils.credentials.putSecretWithLS('AzureDataLakeStorage1', 'secretName', 'secretValue')
```

mssparkutils.env.getClusterId
Get cluster id.

Description

Get cluster id.

Usage

mssparkutils.env.getClusterId()

Value

A empty string used to mimic cluster id of azure synapse runtime.

Examples

mssparkutils.env.getClusterId()

mssparkutils.env.getJobId
Get job Id.

Description

Get job Id.

Usage

mssparkutils.env.getJobId()

Value

A empty string used to mimic the id of spark job been submitted to azure synapse runtime.

Examples

mssparkutils.env.getJobId()

mssparkutils.env.getPoolName
Get pool name.

Description

Get pool name.

Usage

```
mssparkutils.env.getPoolName()
```

Value

A empty string used to mimic the name of user's azure synapse spark pool.

Examples

```
mssparkutils.env.getPoolName()
```

mssparkutils.env.getUserId
Get user Id.

Description

Get user Id.

Usage

```
mssparkutils.env.getUserId()
```

Value

A empty string used to mimic the id of user.

Examples

```
mssparkutils.env.getUserId()
```

mssparkutils.env.getUserName
Get user name.

Description

Get user name.

Usage

mssparkutils.env.getUserName()

Value

A empty string used to mimic the name of user.

Examples

mssparkutils.env.getUserName()

mssparkutils.env.getWorkspaceName
Get workspace name.

Description

Get workspace name.

Usage

mssparkutils.env.getWorkspaceName()

Value

A empty string used to mimic the id of the user's azure synapse workspace.

Examples

mssparkutils.env.getWorkspaceName()

mssparkutils.env.help *Get help message.*

Description

Get help message.

Usage

```
mssparkutils.env.help()
```

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils env module when used in azure synapse runtime.

Examples

```
mssparkutils.env.help()
```

mssparkutils.fs.append

Append the given String to a file, encoded in UTF-8.

Description

Append the given String to a file, encoded in UTF-8.

Usage

```
mssparkutils.fs.append(file, content, createFileIfNotExists = FALSE)
```

Arguments

| | |
|-----------------------|--|
| file | FileSystem URI |
| content | Content needs to be append to file, encoded in System default charset. |
| createFileIfNotExists | If set to true, will firstly try to create file if not exists. |

Value

FALSE to mimic the result if file content append fail.

Examples

```
mssparkutils.fs.append("/tmp/my-file", "Hello world!")  
mssparkutils.fs.append("/tmp/my-file", "Hello world!", TRUE)
```

mssparkutils.fs.cp *Copies a file or directory, possibly across FileSystems.*

Description

Copies a file or directory, possibly across FileSystems.

Usage

```
mssparkutils.fs.cp(from, to, recurse = FALSE)
```

Arguments

| | |
|---------|---|
| from | FileSystem URI of the source file or directory |
| to | FileSystem URI of the destination file or directory |
| recurse | if TRUE, all files and directories will be recursively copied |

Value

FALSE to mimic the result if file or directory from fail to copy to to.

Examples

```
mssparkutils.fs.cp("/tmp/my-folder/a", "adls://xxx/tmp/b")  
mssparkutils.fs.cp("/tmp/my-folder/a", "adls://xxx/tmp/b", TRUE)
```

mssparkutils.fs.exists *Check if a file or directory exists.*

Description

Check if a file or directory exists.

Usage

```
mssparkutils.fs.exists(file)
```

Arguments

| | |
|------|----------------|
| file | FileSystem URI |
|------|----------------|

Value

TRUE if the file or directory exists

Examples

```
## Not run:
mssparkutils.fs.exists("/tmp/my-file")

## End(Not run)
```

```
mssparkutils.fs.fastcp
```

Copies a file or directory via azcopy, possibly across FileSystems.

Description

Copies a file or directory via azcopy, possibly across FileSystems.

Usage

```
mssparkutils.fs.fastcp(from, to, recurse = TRUE, extraConfigs = NULL)
```

Arguments

| | |
|--------------|--|
| from | FileSystem URI of the source file or directory |
| to | FileSystem URI of the destination file or directory |
| recurse | if TRUE, all files and directories will be recursively copied |
| extraConfigs | extra configs for azcopy, includes flags, timeout, aadToken, sourceLinkedService, destinationLinkedService |

Value

TRUE if all files were successfully copied

Examples

```
## Not run:
mssparkutils.fs.fastcp("file:/tmp/my-folder/a", "adls://xxx/tmp/b")

## End(Not run)
```

```
mssparkutils.fs.getMountPath
```

Gets the local path of the mount point.

Description

Gets the local path of the mount point.

Usage

```
mssparkutils.fs.getMountPath(mountPoint, scope = "")
```

Arguments

| | |
|------------|--|
| mountPoint | The directory that was previously mounted. |
| scope | Mount point level, job or workspace, default is job. |

Value

Empty string to mimic the local mounted path related to mountPoint.

Examples

```
mssparkutils.fs.getMountPath("/mnt")  
mssparkutils.fs.getMountPath("/mnt", " job")
```

```
mssparkutils.fs.head
```

Returns up to the first 'maxBytes' bytes of the given file as a String encoded in UTF-8.

Description

Returns up to the first 'maxBytes' bytes of the given file as a String encoded in UTF-8.

Usage

```
mssparkutils.fs.head(file, maxBytes = 65535)
```

Arguments

| | |
|----------|---------------------------------|
| file | FileSystem URI |
| maxBytes | Maximum number of bytes to read |

Value

Empty string to mimic the returned content of file.

Examples

```
mssparkutils.fs.head("/tmp/my-folder/my-file")  
mssparkutils.fs.head("/tmp/my-folder/my-file", 1000)
```

mssparkutils.fs.help *mssparkutils.fs provides utilities for working with various FileSystems.*

Description

Below is overview about the available methods:

Usage

```
mssparkutils.fs.help(methodName = "")
```

Arguments

methodName method name to get more information.

Details

mssparkutils.fs.cp: Copies a file or directory, possibly across FileSystems
mssparkutils.fs.mv: Moves a file or directory, possibly across FileSystems
mssparkutils.fs.ls: Array -> Lists the contents of a directory
mssparkutils.fs.mkdirs: Creates the given directory if it does not exist, also creating any necessary parent directories
mssparkutils.fs.put: Writes the given String out to a file, encoded in UTF-8
mssparkutils.fs.head: Returns up to the first 'maxBytes' bytes of the given file as a String encoded in UTF-8
mssparkutils.fs.append: Append the content to a file
mssparkutils.fs.rm: Removes a file or directory

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils fs module when used in azure synapse runtime.

Examples

```
mssparkutils.fs.help()  
mssparkutils.fs.help("ls")
```

mssparkutils.fs.ls *Lists the contents of a directory.*

Description

Lists the contents of a directory.

Usage

```
mssparkutils.fs.ls(dir)
```

Arguments

dir FileSystem URI

Value

Empty list to mimic the file list under dir.

Examples

```
mssparkutils.fs.ls("/tmp/my-folder/")
```

mssparkutils.fs.mkdirs
*Creates the given directory if it does not exist, also creating any necessary parent * directories.*

Description

Creates the given directory if it does not exist, also creating any necessary parent * directories.

Usage

```
mssparkutils.fs.mkdirs(dir)
```

Arguments

dir FileSystem URI

Value

FALSE to mimic the result if dir creation fail.

Examples

```
mssparkutils.fs.mkdirs("/tmp/a/b/c")
```

mssparkutils.fs.mount *Attach remote storage (Blob, Gen2, Azure File Share) to all working nodes (driver node and worker nodes)*

Description

Attach remote storage (Blob, Gen2, Azure File Share) to all working nodes (driver node and worker nodes)

Usage

```
mssparkutils.fs.mount(source, mountPoint, extraConfigs = NULL)
```

Arguments

| | |
|--------------|---|
| source | FileSystem URI that contains the source data. |
| mountPoint | The directory of remote source to mount the source. |
| extraConfigs | Extra configurations. |

Value

FALSE to mimic the result if mountPoint creation fail.

Examples

```
mssparkutils.fs.mount("abfss://xxx.dfs.core.windows.net", "/mnt")
```

mssparkutils.fs.mounts

Show information about what is mounted. Any credentials used to mount the mount points listed will not be displayed.

Description

Show information about what is mounted. Any credentials used to mount the mount points listed will not be displayed.

Usage

```
mssparkutils.fs.mounts(extraConfigs = NULL)
```

Arguments

| | |
|--------------|-----------------------|
| extraConfigs | Extra configurations. |
|--------------|-----------------------|

Value

The list of MountPointInfo.

```
mssparkutils.fs.mountToDriverNode
```

Attach remote storage (Blob, Gen2, Azure File Share) to driver node

Description

Attach remote storage (Blob, Gen2, Azure File Share) to driver node

Usage

```
mssparkutils.fs.mountToDriverNode(source, mountPoint, extraConfigs = NULL)
```

Arguments

| | |
|--------------|---|
| source | FileSystem URI that contains the source data. |
| mountPoint | The directory of remote source to mount the source. |
| extraConfigs | Extra configurations. |

Value

TRUE if the path was successfully mounted.

```
mssparkutils.fs.mv
```

Moves a file or directory, possibly across FileSystems. For intra-FileSystem, it is implemented by hadoop fs rename operation. For inter-FileSystem, This is implemented as a copy followed by delete.

Description

Moves a file or directory, possibly across FileSystems. For intra-FileSystem, it is implemented by hadoop fs rename operation. For inter-FileSystem, This is implemented as a copy followed by delete.

Usage

```
mssparkutils.fs.mv(from, to, createPath = FALSE, overwrite = FALSE)
```

Arguments

| | |
|------------|---|
| from | FileSystem URI of the source file or directory. |
| to | FileSystem URI of the destination file or directory. |
| createPath | if TRUE, will firstly create the parent dir if not exists before move op. |
| overwrite | if TRUE, will overwrite the destination folder if exists. |

Value

FALSE to mimic the result of mv operation fail.

Examples

```
mssparkutils.fs.mv("/tmp/my-folder/", "adls:/xxx/tmp/b")
```

```
mssparkutils.fs.put    Writes the given String out to a file, encoded in UTF-8.
```

Description

Writes the given String out to a file, encoded in UTF-8.

Usage

```
mssparkutils.fs.put(file, content, overwrite = FALSE)
```

Arguments

| | |
|-----------|--|
| file | FileSystem URI. |
| content | Content of file to write, encoded in System default charset. |
| overwrite | If set to TRUE, the file will be overwritten if it existed already. Note that if overwrite is TRUE and the the write fails, the original file. may still be deleted. |

Value

FALSE to mimic the result of file put operation fail.

Examples

```
mssparkutils.fs.put("/tmp/my-file", "Hello world!", TRUE)
```

mssparkutils.fs.refreshMounts
Refresh workspace level mount points.

Description

Refresh workspace level mount points.

Usage

```
mssparkutils.fs.refreshMounts()
```

Value

FALSE to mimic the refreshMounts fail to refresh mount info.

Examples

```
mssparkutils.fs.refreshMounts()
```

mssparkutils.fs.rm *Removes a file or directory.*

Description

Removes a file or directory.

Usage

```
mssparkutils.fs.rm(dir, recurse = FALSE)
```

Arguments

| | |
|---------|---|
| dir | FileSystem URI for a single file or a directory. |
| recurse | if TRUE, all files and directories will be recursively deleted. |

Value

FALSE to mimic the result of dir deletion fail.

Examples

```
mssparkutils.fs.rm("/tmp/my-folder/", TRUE)
```

mssparkutils.fs.unmount

Removes a mount point.

Description

Removes a mount point.

Usage

```
mssparkutils.fs.unmount(mountPoint)
```

Arguments

mountPoint The directory that was previously mounted.

Value

FALSE to mimic the result of unmount mountPoint fail.

Examples

```
mssparkutils.fs.unmount("/mnt")
```

mssparkutils.fs.unmountFromDriverNode

Removes a mount point from driver node.

Description

Removes a mount point from driver node.

Usage

```
mssparkutils.fs.unmountFromDriverNode(mountPoint)
```

Arguments

mountPoint The directory that was previously mounted.

Value

TRUE if the mount point was successfully unmounted.

mssparkutils.help *Get help message for this module.*

Description

Get help message for this module.

Usage

```
mssparkutils.help(methodName = "")
```

Arguments

methodName method name to get more information.

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils module when used in azure synapse runtime.

Examples

```
mssparkutils.help()
```

mssparkutils.lakehouse.create
Create a lakehouse

Description

Create a lakehouse

Usage

```
mssparkutils.lakehouse.create(  
  name,  
  description = "",  
  definition = "",  
  workspaceId = ""  
)
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| description | Description of the lakehouse |
| definition | Definition of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

A lakehouse object

```
mssparkutils.lakehouse.delete
```

Delete a lakehouse

Description

Delete a lakehouse

Usage

```
mssparkutils.lakehouse.delete(name, workspaceId = "")
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

```
mssparkutils.lakehouse.get
```

Get a lakehouse

Description

Get a lakehouse

Usage

```
mssparkutils.lakehouse.get(name = "", workspaceId = "")
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

A lakehouse object

mssparkutils.lakehouse.help

The lakehouse module.

Description

mssparkutils.lakehouse.create(name: String, description: String, workspaceId: String): Lakehouse
-> Create a lakehouse mssparkutils.lakehouse.get(name: String, workspaceId: String): Lakehouse
-> Get a lakehouse mssparkutils.lakehouse.delete(name: String, workspaceId: String): void ->
Delete a lakehouse mssparkutils.lakehouse.update(name: String, newName: String, description:
String, workspaceId: String): Lakehouse -> Update a lakehouse

Usage

```
mssparkutils.lakehouse.help(methodName = "")
```

Arguments

| | |
|------------|-------------------------------------|
| methodName | method name to get more information |
|------------|-------------------------------------|

mssparkutils.lakehouse.list

List all lakehouses

Description

List all lakehouses

Usage

```
mssparkutils.lakehouse.list(workspaceId = "", maxResults = 1000L)
```

Arguments

| | |
|-------------|---|
| workspaceId | Workspace id of the lakehouse, default to current workspace |
| maxResults | Maximum number of lakehouses to return, default to 1000 |

Value

A list of lakehouse objects

mssparkutils.lakehouse.update
Update a lakehouse

Description

Update a lakehouse

Usage

```
mssparkutils.lakehouse.update(  
  name,  
  newName,  
  description = "",  
  workspaceId = ""  
)
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| newName | New name of the lakehouse |
| description | Description of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

A lakehouse object

mssparkutils.nbResPath
Gets the local path of the notebook resource.

Description

Gets the local path of the notebook resource.

Usage

```
mssparkutils.nbResPath()
```

Value

The local path of the notebook resource.

```
mssparkutils.notebook.exit
```

This method lets you exit a notebook with a value.

Description

This method lets you exit a notebook with a value.

Usage

```
mssparkutils.notebook.exit(value)
```

Arguments

value the value to return when exiting.

Value

No return value, mimic behavior to set the notebook run exit value using value.

Examples

```
mssparkutils.notebook.exit('exitVal')
```

```
mssparkutils.notebook.help
```

The notebook module.

Description

The notebook module.

Usage

```
mssparkutils.notebook.help(methodName = "")
```

Arguments

methodName method name to get more information.

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils notebook module when used in azure synapse runtime.

Examples

```
mssparkutils.notebook.help()
mssparkutils.notebook.help("run")
```

```
mssparkutils.notebook.run
```

Runs a notebook and returns its exit value. The notebook will run in the current livy session context by default.

Description

Runs a notebook and returns its exit value. The notebook will run in the current livy session context by default.

Usage

```
mssparkutils.notebook.run(
  path,
  timeoutSeconds = 90,
  arguments = NULL,
  workspace = ""
)
```

Arguments

| | |
|----------------|--|
| path | absolute path to the notebook, e.g. /path/to/notebook. |
| timeoutSeconds | timeout in seconds for the called notebook. |
| arguments | string map of arguments to pass to the notebook. |
| workspace | Workspace of the notebook. |

Value

Empty string to mimic the exitVal set by mssparkutils.notebook.exit.

Examples

```
mssparkutils.notebook.run('NB1')
mssparkutils.notebook.run('NB1', 200)
mssparkutils.notebook.run('NB1', 200, list("input"=30))
```

```
mssparkutils.notebook.runMultiple
```

Runs multiple notebooks concurrently with support for dependency relationships. Details can be found in `mssparkutils.notebook.help("runMultiple")`.

Description

Runs multiple notebooks concurrently with support for dependency relationships. Details can be found in `mssparkutils.notebook.help("runMultiple")`.

Usage

```
mssparkutils.notebook.runMultiple(pathsOrPipeline)
```

Arguments

pathsOrPipeline

A list of notebook names or a complex data structure (JSON string) that meets the requirements of the `com.microsoft.spark.notebook.msutils.impl.MsNotebookPipeline` scala class.

Value

a list of exit values and exceptions for each notebook

```
mssparkutils.notebook.updateNBSEndpoint
```

provide a way to make people can update the endpoint

Description

provide a way to make people can update the endpoint

Usage

```
mssparkutils.notebook.updateNBSEndpoint(endpoint)
```

Arguments

endpoint the new point

```
mssparkutils.notebook.validateDAG
```

Check if the DAG is correctly defined, if the syntax is correct, and if notebooks are found in the workspace without actual execution. Details can be found in `mssparkutils.notebook.help("validateDAG")`.

Description

Check if the DAG is correctly defined, if the syntax is correct, and if notebooks are found in the workspace without actual execution. Details can be found in `mssparkutils.notebook.help("validateDAG")`.

Usage

```
mssparkutils.notebook.validateDAG(dag)
```

Arguments

| | |
|-----|--|
| dag | A list of notebook names or a complex data structure (JSON string) that meets the requirements of the <code>com.microsoft.spark.notebook.msutils.impl.MsNotebookPipeline</code> scala class. |
|-----|--|

Value

check result

```
mssparkutils.runtime.context
```

Get runtime properties

Description

Get runtime properties

Usage

```
mssparkutils.runtime.context()
```

Value

A dummy env object to mimic the result of runtime context method when used in azure synapse runtime.

Examples

```
mssparkutils.runtime.context()
```

mssparkutils.runtime.setHcReplId
Set runtime high concurrency mode repl id

Description

Set runtime high concurrency mode repl id

Usage

```
mssparkutils.runtime.setHcReplId(replId)
```

Arguments

| | |
|--------|-------------------------------|
| replId | High concurrency mode repl id |
|--------|-------------------------------|

mssparkutils.session.stop
Stop an interactive session

Description

Stop an interactive session

Usage

```
mssparkutils.session.stop(detach = TRUE)
```

Arguments

| | |
|--------|--|
| detach | If detach is True, stop session from standard session, or detach current notebook from high concurrency session; if detach is False, stop session in any session. Default is TRUE. |
|--------|--|

notebookutils.conf.get

Get a config value

Description

Dummy in-memory implementation for local development.

Usage

```
notebookutils.conf.get(key, default = "")
```

Arguments

| | |
|---------|-----------------------------------|
| key | Config key |
| default | Default value when key is missing |

notebookutils.conf.set

Set a config key/value

Description

Dummy in-memory implementation for local development.

Usage

```
notebookutils.conf.set(key, value)
```

Arguments

| | |
|-------|--------------|
| key | Config key |
| value | Config value |

notebookutils.connections.getCredential
Get credential for a connection

Description

Dummy implementation for local development.

Usage

```
notebookutils.connections.getCredential(connectionId, artifactId = "")
```

Arguments

| | |
|--------------|---------------|
| connectionId | Connection id |
| artifactId | Artifact id |

Value

A dummy credential object (list)

notebookutils.connections.getHelpString
Get help string for a method.

Description

Get help string for a method.

Usage

```
notebookutils.connections.getHelpString(funcName = "", namespace = "")
```

Arguments

| | |
|-----------|---------------|
| funcName | function name |
| namespace | namespace |

```
notebookutils.credentials.getConnectionStringOrCreds
```

Take linked service name as input and return connection string or credentials depending on the configuration of the linked service.

Description

Take linked service name as input and return connection string or credentials depending on the configuration of the linked service.

Usage

```
notebookutils.credentials.getConnectionStringOrCreds(linkedService)
```

Arguments

linkedService Linked service name.

Value

A empty string used to mimic credentials returned by azure synapse runtime for linkedService.

Examples

```
notebookutils.credentials.getConnectionStringOrCreds('AzureDataLakeStorage1')
```

```
notebookutils.credentials.getFullConnectionString
```

Take linked service name as input and return full connection string with credentials.

Description

Take linked service name as input and return full connection string with credentials.

Usage

```
notebookutils.credentials.getFullConnectionString(linkedService)
```

Arguments

linkedService Linked service name.

Value

A empty string used to mimic connection string returned by azure synapse runtime for linkedService.

Examples

```
notebookutils.credentials.getConnectionStringOrCreds('AzureDataLakeStorage1')
```

```
notebookutils.credentials.getPropertiesAll
```

Return all the properties of a given linked service in string format.

Description

Return all the properties of a given linked service in string format.

Usage

```
notebookutils.credentials.getPropertiesAll(linkedService)
```

Arguments

linkedService Linked service name.

Value

A empty string used to mimic properties string returned by azure synapse runtime for linkedService.

Examples

```
notebookutils.credentials.getPropertiesAll('AzureDataLakeStorage1')
```

```
notebookutils.credentials.getSecret
```

Return AKV secret.

Description

Return AKV secret.

Usage

```
notebookutils.credentials.getSecret(akvName, secret, linkedService = NULL)
```

Arguments

akvName Azure Key Vault name.

secret name of the secret being fetched.

linkedService linkedService name of the AKV linked service.

Value

A empty string used to mimic secret returned by azure synapse runtime for given akvName and secret.

Examples

```
notebookutils.credentials.getSecret('akvName', 'secretName')
notebookutils.credentials.getSecret('akvName', 'secretName', 'AzureDataLakeStorage1')
```

```
notebookutils.credentials.getSecretWithLS
```

Return AKV secret using linkedService.

Description

Return AKV secret using linkedService.

Usage

```
notebookutils.credentials.getSecretWithLS(linkedService, secret)
```

Arguments

| | |
|---------------|---|
| linkedService | linkedService name of the AKV linked service. |
| secret | name of the secret being fetched. |

Value

A empty string used to mimic secret returned by azure synapse runtime for given linkedService and secret.

Examples

```
notebookutils.credentials.getSecretWithLS('AzureDataLakeStorage1', 'secretName')
```

```
notebookutils.credentials.getToken
```

Get AAD token for a resource.

Description

Get AAD token for a resource.

Usage

```
notebookutils.credentials.getToken(audience, name = "")
```

Arguments

| | |
|----------|-----------------|
| audience | token audience. |
| name | token audience. |

Value

A empty string used to mimic token returned by azure synapse runtime for accessing resource audience.

Examples

```
notebookutils.credentials.getToken('synapse')
notebookutils.credentials.getToken('storage')
notebookutils.credentials.getToken('storage', 'storage')
```

```
notebookutils.credentials.help
```

Get help message.

Description

Get help message.

Usage

```
notebookutils.credentials.help()
```

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils credentials module when used in azure synapse runtime.

Examples

```
notebookutils.credentials.help()
```

```
notebookutils.credentials.isValidToken
```

Returns true if the input token is valid (i.e, hasn't expired).

Description

Returns true if the input token is valid (i.e, hasn't expired).

Usage

```
notebookutils.credentials.isValidToken(token)
```

Arguments

| | |
|-------|--------------------|
| token | token to validate. |
|-------|--------------------|

Value

FALSE to mimic the result if token is invalid.

Examples

```
notebookutils.credentials.isValidToken('dummyToken')
```

```
notebookutils.credentials.putSecret
```

Put AKV secret using with or without linkedService.

Description

Put AKV secret using with or without linkedService.

Usage

```
notebookutils.credentials.putSecret(  
    akvName,  
    secretName,  
    secretValue,  
    linkedService = NULL  
)
```

Arguments

| | |
|----------------------------|------------------------------------|
| <code>akvName</code> | Azure Key Vault name. |
| <code>secretName</code> | name of the secret being written. |
| <code>secretValue</code> | value of the secret being written. |
| <code>linkedService</code> | name of the AKV linked service. |

Value

The `secretValue` been written.

Examples

```
notebookutils.credentials.putSecret('akvName', 'secretName', 'secretValue')
notebookutils.credentials.putSecret('akvName', 'secretName', 'secretValue', 'AzureDataLakeStorage1')
```

```
notebookutils.credentials.putSecretWithLS
    Put AKV secret using linkedService.
```

Description

Put AKV secret using `linkedService`.

Usage

```
notebookutils.credentials.putSecretWithLS(
    linkedService,
    secretName,
    secretValue
)
```

Arguments

| | |
|----------------------------|------------------------------------|
| <code>linkedService</code> | name of AKV linked service. |
| <code>secretName</code> | name of the secret being written. |
| <code>secretValue</code> | value of the secret being written. |

Value

The `secretValue` been written.

Examples

```
notebookutils.credentials.putSecretWithLS('AzureDataLakeStorage1', 'secretName', 'secretValue')
```

notebookutils.env.getClusterId
Get cluster id.

Description

Get cluster id.

Usage

```
notebookutils.env.getClusterId()
```

Value

A empty string used to mimic cluster id of azure synapse runtime.

Examples

```
notebookutils.env.getClusterId()
```

notebookutils.env.getJobId
Get job Id.

Description

Get job Id.

Usage

```
notebookutils.env.getJobId()
```

Value

A empty string used to mimic the id of spark job been submitted to azure synapse runtime.

Examples

```
notebookutils.env.getJobId()
```

`notebookutils.env.getPoolName`
Get pool name.

Description

Get pool name.

Usage

`notebookutils.env.getPoolName()`

Value

A empty string used to mimic the name of user's azure synapse spark pool.

Examples

`notebookutils.env.getPoolName()`

`notebookutils.env.getUserId`
Get user Id.

Description

Get user Id.

Usage

`notebookutils.env.getUserId()`

Value

A empty string used to mimic the id of user.

Examples

`notebookutils.env.getUserId()`

notebookutils.env.getUserName
Get user name.

Description

Get user name.

Usage

```
notebookutils.env.getUserName()
```

Value

A empty string used to mimic the name of user.

Examples

```
notebookutils.env.getUserName()
```

notebookutils.env.getWorkspaceName
Get workspace name.

Description

Get workspace name.

Usage

```
notebookutils.env.getWorkspaceName()
```

Value

A empty string used to mimic the id of the user's azure synapse workspace.

Examples

```
notebookutils.env.getWorkspaceName()
```

notebookutils.env.help

Get help message.

Description

Get help message.

Usage

```
notebookutils.env.help()
```

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils env module when used in azure synapse runtime.

Examples

```
notebookutils.env.help()
```

notebookutils.fabricClient.delete

Send a DELETE request to Fabric.

Description

Send a DELETE request to Fabric.

Usage

```
notebookutils.fabricClient.delete(path, headers = list())
```

Arguments

| | |
|---------|------------------------|
| path | Path of the request |
| headers | Headers of the request |

```
notebookutils.fabricClient.get
```

Send a GET request to Fabric.

Description

Send a GET request to Fabric.

Usage

```
notebookutils.fabricClient.get(path, headers = list())
```

Arguments

| | |
|---------|------------------------|
| path | Path of the request |
| headers | Headers of the request |

Value

RestResponse Response of the request

```
notebookutils.fabricClient.help
```

Get help string for a method.

Description

Get help string for a method.

Usage

```
notebookutils.fabricClient.help(methodName = "")
```

Arguments

| | |
|------------|--------------------|
| methodName | Name of the method |
|------------|--------------------|

notebookutils.fabricClient.listCapacities

List all capacities in the workspace.

Description

List all capacities in the workspace.

Usage

```
notebookutils.fabricClient.listCapacities(maxResults = 1000L)
```

Arguments

maxResults Maximum number of capacities to return, default is 1000

Value

Array of Capacity objects

notebookutils.fabricClient.patch

Send a PATCH request to Fabric.

Description

Send a PATCH request to Fabric.

Usage

```
notebookutils.fabricClient.patch(path, content, headers = list())
```

Arguments

path Path of the request
content Content of the request
headers Headers of the request

Value

RestResponse Response of the request

notebookutils.fabricClient.post
Send a POST request to Fabric.

Description

Send a POST request to Fabric.

Usage

```
notebookutils.fabricClient.post(path, content, headers = list())
```

Arguments

| | |
|---------|------------------------|
| path | Path of the request |
| content | Content of the request |
| headers | Headers of the request |

Value

RestResponse Response of the request

notebookutils.fabricClient.put
Send a PUT request to Fabric.

Description

Send a PUT request to Fabric.

Usage

```
notebookutils.fabricClient.put(path, content, headers = list())
```

Arguments

| | |
|---------|------------------------|
| path | Path of the request |
| content | Content of the request |
| headers | Headers of the request |

Value

RestResponse Response of the request

```
notebookutils.fs.append
```

Append the given String to a file, encoded in UTF-8.

Description

Append the given String to a file, encoded in UTF-8.

Usage

```
notebookutils.fs.append(file, content, createFileIfNotExists = FALSE)
```

Arguments

| | |
|-----------------------|--|
| file | FileSystem URI |
| content | Content needs to be append to file, encoded in System default charset. |
| createFileIfNotExists | If set to true, will firstly try to create file if not exists. |

Value

FALSE to mimic the result if file content append fail.

Examples

```
notebookutils.fs.append("/tmp/my-file", "Hello world!")
notebookutils.fs.append("/tmp/my-file", "Hello world!", TRUE)
```

```
notebookutils.fs.cp
```

Copies a file or directory, possibly across FileSystems.

Description

Copies a file or directory, possibly across FileSystems.

Usage

```
notebookutils.fs.cp(from, to, recurse = FALSE)
```

Arguments

| | |
|---------|---|
| from | FileSystem URI of the source file or directory |
| to | FileSystem URI of the destination file or directory |
| recurse | if TRUE, all files and directories will be recursively copied |

Value

FALSE to mimic the result if file or directory from fail to copy to to.

Examples

```
notebookutils.fs.cp("/tmp/my-folder/a", "adls://xxx/tmp/b")
notebookutils.fs.cp("/tmp/my-folder/a", "adls://xxx/tmp/b", TRUE)
```

notebookutils.fs.exists

Check if a file or directory exists.

Description

Check if a file or directory exists.

Usage

```
notebookutils.fs.exists(file)
```

Arguments

| | |
|------|----------------|
| file | FileSystem URI |
|------|----------------|

Value

TRUE if the file or directory exists

Examples

```
## Not run:
notebookutils.fs.exists("/tmp/my-file")

## End(Not run)
```

`notebookutils.fs.fastcp`*Copies a file or directory via azcopy, possibly across FileSystems.*

Description

Copies a file or directory via azcopy, possibly across FileSystems.

Usage

```
notebookutils.fs.fastcp(from, to, recurse = TRUE, extraConfigs = NULL)
```

Arguments

| | |
|---------------------------|--|
| <code>from</code> | FileSystem URI of the source file or directory |
| <code>to</code> | FileSystem URI of the destination file or directory |
| <code>recurse</code> | if TRUE, all files and directories will be recursively copied |
| <code>extraConfigs</code> | extra configs for azcopy, includes flags, timeout, aadToken, sourceLinkedService, destinationLinkedService |

Value

TRUE if all files were successfully copied

Examples

```
## Not run:  
notebookutils.fs.fastcp("file:/tmp/my-folder/a", "adls://xxx/tmp/b")  
  
## End(Not run)
```

`notebookutils.fs.getMountPath`*Gets the local path of the mount point.*

Description

Gets the local path of the mount point.

Usage

```
notebookutils.fs.getMountPath(mountPoint, scope = "")
```

Arguments

| | |
|------------|--|
| mountPoint | The directory that was previously mounted. |
| scope | Mount point level, job or workspace, default is job. |

Value

Empty string to mimic the local mounted path related to mountPoint.

Examples

```
notebookutils.fs.getMountPath("/mnt")
notebookutils.fs.getMountPath("/mnt", "job")
```

`notebookutils.fs.head` *Returns up to the first 'maxBytes' bytes of the given file as a String encoded in UTF-8.*

Description

Returns up to the first 'maxBytes' bytes of the given file as a String encoded in UTF-8.

Usage

```
notebookutils.fs.head(file, maxBytes = 65535)
```

Arguments

| | |
|----------|---------------------------------|
| file | FileSystem URI |
| maxBytes | Maximum number of bytes to read |

Value

Empty string to mimic the returned content of file.

Examples

```
notebookutils.fs.head("/tmp/my-folder/my-file")
notebookutils.fs.head("/tmp/my-folder/my-file", 1000)
```

notebookutils.fs.help *notebookutils.fs provides utilities for working with various FileSystems.*

Description

Below is overview about the available methods:

Usage

```
notebookutils.fs.help(methodName = "")
```

Arguments

methodName method name to get more information.

Details

notebookutils.fs.cp: Copies a file or directory, possibly across FileSystems
notebookutils.fs.mv: Moves a file or directory, possibly across FileSystems
notebookutils.fs.ls: Array -> Lists the contents of a directory
notebookutils.fs.mkdir: Creates the given directory if it does not exist, also creating any necessary parent directories
notebookutils.fs.put: Writes the given String out to a file, encoded in UTF-8
notebookutils.fs.head: Returns up to the first 'maxBytes' bytes of the given file as a String encoded in UTF-8
notebookutils.fs.append: Append the content to a file
notebookutils.fs.rm: Removes a file or directory

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils fs module when used in azure synapse runtime.

Examples

```
notebookutils.fs.help()  
notebookutils.fs.help("ls")
```

notebookutils.fs.ls *Lists the contents of a directory.*

Description

Lists the contents of a directory.

Usage

```
notebookutils.fs.ls(dir)
```

Arguments

dir FileSystem URI

Value

Empty list to mimic the file list under dir.

Examples

```
notebookutils.fs.ls("/tmp/my-folder/")
```

```
notebookutils.fs.mkdirs
```

*Creates the given directory if it does not exist, also creating any necessary parent * directories.*

Description

Creates the given directory if it does not exist, also creating any necessary parent * directories.

Usage

```
notebookutils.fs.mkdirs(dir)
```

Arguments

dir FileSystem URI

Value

FALSE to mimic the result if dir creation fail.

Examples

```
notebookutils.fs.mkdirs("/tmp/a/b/c")
```

`notebookutils.fs.mount`

Attach remote storage (Blob, Gen2, Azure File Share) to all working nodes (driver node and worker nodes)

Description

Attach remote storage (Blob, Gen2, Azure File Share) to all working nodes (driver node and worker nodes)

Usage

```
notebookutils.fs.mount(source, mountPoint, extraConfigs = NULL)
```

Arguments

| | |
|---------------------------|---|
| <code>source</code> | FileSystem URI that contains the source data. |
| <code>mountPoint</code> | The directory of remote source to mount the source. |
| <code>extraConfigs</code> | Extra configurations. |

Value

FALSE to mimic the result if mountPoint creation fail.

Examples

```
notebookutils.fs.mount("abfss://xxx.dfs.core.windows.net", "/mnt")
```

`notebookutils.fs.mounts`

Show information about what is mounted. Any credentials used to mount the mount points listed will not be displayed.

Description

Show information about what is mounted. Any credentials used to mount the mount points listed will not be displayed.

Usage

```
notebookutils.fs.mounts(extraConfigs = NULL)
```

Arguments

| | |
|---------------------------|-----------------------|
| <code>extraConfigs</code> | Extra configurations. |
|---------------------------|-----------------------|

Value

The list of MountPointInfo.

```
notebookutils.fs.mountToDriverNode
```

Attach remote storage (Blob, Gen2, Azure File Share) to driver node

Description

Attach remote storage (Blob, Gen2, Azure File Share) to driver node

Usage

```
notebookutils.fs.mountToDriverNode(source, mountPoint, extraConfigs = NULL)
```

Arguments

| | |
|--------------|---|
| source | FileSystem URI that contains the source data. |
| mountPoint | The directory of remote source to mount the source. |
| extraConfigs | Extra configurations. |

Value

TRUE if the path was successfully mounted.

```
notebookutils.fs.mv
```

Moves a file or directory, possibly across FileSystems. For intra-FileSystem, it is implemented by hadoop fs rename operation. For inter-FileSystem, This is implemented as a copy followed by delete.

Description

Moves a file or directory, possibly across FileSystems. For intra-FileSystem, it is implemented by hadoop fs rename operation. For inter-FileSystem, This is implemented as a copy followed by delete.

Usage

```
notebookutils.fs.mv(from, to, createPath = FALSE, overwrite = FALSE)
```

Arguments

| | |
|------------|---|
| from | FileSystem URI of the source file or directory. |
| to | FileSystem URI of the destination file or directory. |
| createPath | if TRUE, will firstly create the parent dir if not exists before move op. |
| overwrite | if TRUE, will overwrite the destination folder if exists. |

Value

FALSE to mimic the result of mv operation fail.

Examples

```
notebookutils.fs.mv("/tmp/my-folder/", "adls:/xxx/tmp/b")
```

```
notebookutils.fs.put Writes the given String out to a file, encoded in UTF-8.
```

Description

Writes the given String out to a file, encoded in UTF-8.

Usage

```
notebookutils.fs.put(file, content, overwrite = FALSE)
```

Arguments

| | |
|-----------|--|
| file | FileSystem URI. |
| content | Content of file to write, encoded in System default charset. |
| overwrite | If set to TRUE, the file will be overwritten if it existed already. Note that if overwrite is TRUE and the the write fails, the original file. may still be deleted. |

Value

FALSE to mimic the result of file put operation fail.

Examples

```
notebookutils.fs.put("/tmp/my-file", "Hello world!", TRUE)
```

notebookutils.fs.refreshMounts
Refresh workspace level mount points.

Description

Refresh workspace level mount points.

Usage

```
notebookutils.fs.refreshMounts()
```

Value

FALSE to mimic the refreshMounts fail to refresh mount info.

Examples

```
notebookutils.fs.refreshMounts()
```

notebookutils.fs.rm *Removes a file or directory.*

Description

Removes a file or directory.

Usage

```
notebookutils.fs.rm(dir, recurse = FALSE)
```

Arguments

| | |
|---------|---|
| dir | FileSystem URI for a single file or a directory. |
| recurse | if TRUE, all files and directories will be recursively deleted. |

Value

FALSE to mimic the result of dir deletion fail.

Examples

```
notebookutils.fs.rm("/tmp/my-folder/", TRUE)
```

```
notebookutils.fs.unmount
```

Removes a mount point.

Description

Removes a mount point.

Usage

```
notebookutils.fs.unmount(mountPoint)
```

Arguments

mountPoint The directory that was previously mounted.

Value

FALSE to mimic the result of unmount mountPoint fail.

Examples

```
notebookutils.fs.unmount("/mnt")
```

```
notebookutils.fs.unmountFromDriverNode
```

Removes a mount point from driver node.

Description

Removes a mount point from driver node.

Usage

```
notebookutils.fs.unmountFromDriverNode(mountPoint)
```

Arguments

mountPoint The directory that was previously mounted.

Value

TRUE if the mount point was successfully unmounted.

`notebookutils.help` *Get help message for this module.*

Description

Get help message for this module.

Usage

```
notebookutils.help(methodName = "")
```

Arguments

`methodName` method name to get more information.

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils module when used in azure synapse runtime.

Examples

```
notebookutils.help()
```

`notebookutils.initialize`
Initialize notebookutils, using in pre-run code

Description

Initialize notebookutils, using in pre-run code

Usage

```
notebookutils.initialize()
```

```
notebookutils.lakehouse.create
```

Create a lakehouse

Description

Create a lakehouse

Usage

```
notebookutils.lakehouse.create(  
    name,  
    description = "",  
    definition = "",  
    workspaceId = ""  
)
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| description | Description of the lakehouse |
| definition | Definition of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

A lakehouse object

```
notebookutils.lakehouse.delete
```

Delete a lakehouse

Description

Delete a lakehouse

Usage

```
notebookutils.lakehouse.delete(name, workspaceId = "")
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

notebookutils.lakehouse.get
Get a lakehouse

Description

Get a lakehouse

Usage

```
notebookutils.lakehouse.get(name = "", workspaceId = "")
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

A lakehouse object

notebookutils.lakehouse.getDefinition
Get the definition of a lakehouse

Description

Get the definition of a lakehouse

Usage

```
notebookutils.lakehouse.getDefinition(name, workspaceId = "")
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

The definition of the lakehouse

`notebookutils.lakehouse.getWithProperties`*Get the info of a Lakehouse with properties.*

Description

Get the info of a Lakehouse with properties.

Usage

```
notebookutils.lakehouse.getWithProperties(name, workspaceId = "")
```

Arguments

| | |
|-------------|--|
| name | Name of the Lakehouse. |
| workspaceId | Id of the workspace, default to current workspace. |

Value

Artifact object. Please refer to: <https://learn.microsoft.com/en-us/rest/api/fabric/articles/item-management/properties/lakehouse-properties>

`notebookutils.lakehouse.help`*The lakehouse module.*

Description

```
notebookutils.lakehouse.create(name: String, description: String, workspaceId: String): Lakehouse  
-> Create a lakehouse notebookutils.lakehouse.get(name: String, workspaceId: String): Lakehouse  
-> Get a lakehouse notebookutils.lakehouse.delete(name: String, workspaceId: String): void ->  
Delete a lakehouse notebookutils.lakehouse.update(name: String, newName: String, description:  
String, workspaceId: String): Lakehouse -> Update a lakehouse
```

Usage

```
notebookutils.lakehouse.help(methodName = "")
```

Arguments

| | |
|------------|-------------------------------------|
| methodName | method name to get more information |
|------------|-------------------------------------|

notebookutils.lakehouse.list
List all lakehouses

Description

List all lakehouses

Usage

```
notebookutils.lakehouse.list(workspaceId = "", maxResults = 1000L)
```

Arguments

| | |
|-------------|---|
| workspaceId | Workspace id of the lakehouse, default to current workspace |
| maxResults | Maximum number of lakehouses to return, default to 1000 |

Value

A list of lakehouse objects

notebookutils.lakehouse.listTables
List all tables in a Lakehouse.

Description

List all tables in a Lakehouse.

Usage

```
notebookutils.lakehouse.listTables(  
  lakehouse = "",  
  workspaceId = "",  
  maxResults = 1000L  
)
```

Arguments

| | |
|-------------|---|
| lakehouse | Name of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |
| maxResults | Maximum number of tables to return, default to 1000 |

Value

A list of table objects

notebookutils.lakehouse.loadTable
Starts a load table operation.

Description

Starts a load table operation.

Usage

```
notebookutils.lakehouse.loadTable(  
    loadOption,  
    table,  
    lakehouse = "",  
    workspaceId = ""  
)
```

Arguments

| | |
|-------------|--|
| loadOption | string, loadOption Load options. Please refer to https://learn.microsoft.com/en-us/rest/api/fabric/lakehouse/tables/load-table |
| table | Name of the table |
| lakehouse | Name of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

boolean

notebookutils.lakehouse.update
Update a lakehouse

Description

Update a lakehouse

Usage

```
notebookutils.lakehouse.update(  
    name,  
    newName,  
    description = "",  
    workspaceId = ""  
)
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| newName | New name of the lakehouse |
| description | Description of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

A lakehouse object

```
notebookutils.lakehouse.updateDefinition
```

Get the definition of a lakehouse

Description

Get the definition of a lakehouse

Usage

```
notebookutils.lakehouse.updateDefinition(name, definition, workspaceId = "")
```

Arguments

| | |
|-------------|---|
| name | Name of the lakehouse |
| definition | Definition of the lakehouse |
| workspaceId | Workspace id of the lakehouse, default to current workspace |

Value

The definition of the lakehouse

```
notebookutils.nbResPath
```

Gets the local path of the notebook resource.

Description

Gets the local path of the notebook resource.

Usage

```
notebookutils.nbResPath()
```

Value

The local path of the notebook resource.

notebookutils.notebook.create
Create a notebook

Description

Create a notebook

Usage

```
notebookutils.notebook.create(  
  name,  
  description = "",  
  content = "",  
  defaultLakehouse = "",  
  defaultLakehouseWorkspace = "",  
  workspaceId = ""  
)
```

Arguments

| | |
|---------------------------|--|
| name | Name of the notebook |
| description | Description of the notebook |
| content | Definition of the notebook |
| defaultLakehouse | Default lakehouse of the notebook |
| defaultLakehouseWorkspace | Default lakehouse workspace of the notebook |
| workspaceId | Workspace id of the notebook, default to current workspace |

Value

A notebook object

notebookutils.notebook.delete
Delete a notebook

Description

Delete a notebook

Usage

```
notebookutils.notebook.delete(name, workspaceId = "")
```

Arguments

| | |
|-------------|--|
| name | Name of the notebook |
| workspaceId | Workspace id of the notebook, default to current workspace |

```
notebookutils.notebook.exit
```

This method lets you exit a notebook with a value.

Description

This method lets you exit a notebook with a value.

Usage

```
notebookutils.notebook.exit(value)
```

Arguments

| | |
|-------|-----------------------------------|
| value | the value to return when exiting. |
|-------|-----------------------------------|

Value

No return value, mimic behavior to set the notebook run exit value using value.

Examples

```
notebookutils.notebook.exit('exitVal')
```

```
notebookutils.notebook.get
```

Get a notebook

Description

Get a notebook

Usage

```
notebookutils.notebook.get(name, workspaceId = "")
```

Arguments

| | |
|-------------|--|
| name | Name of the notebook |
| workspaceId | Workspace id of the notebook, default to current workspace |

Value

A notebook object

```
notebookutils.notebook.help
```

The notebook module.

Description

The notebook module.

Usage

```
notebookutils.notebook.help(methodName = "")
```

Arguments

methodName method name to get more information.

Value

No return value, print empty string to mimic the behavior of help method of mssparkutils notebook module when used in azure synapse runtime.

Examples

```
notebookutils.notebook.help()  
notebookutils.notebook.help("run")
```

```
notebookutils.notebook.list
```

List all notebooks

Description

List all notebooks

Usage

```
notebookutils.notebook.list(workspaceId = "", maxResults = 1000L)
```

Arguments

workspaceId Workspace id of the notebook, default to current workspace
maxResults Maximum number of notebooks to return, default to 1000

Value

A list of notebook objects

notebookutils.notebook.run

Runs a notebook and returns its exit value. The notebook will run in the current livy session context by default.

Description

Runs a notebook and returns its exit value. The notebook will run in the current livy session context by default.

Usage

```
notebookutils.notebook.run(  
  path,  
  timeoutSeconds = 90,  
  arguments = NULL,  
  workspace = ""  
)
```

Arguments

| | |
|----------------|--|
| path | absolute path to the notebook, e.g. /path/to/notebook. |
| timeoutSeconds | timeout in seconds for the called notebook. |
| arguments | string map of arguments to pass to the notebook. |
| workspace | Workspace of the notebook. |

Value

Empty string to mimic the exitVal set by mssparkutils.notebook.exit.

Examples

```
notebookutils.notebook.run('NB1')  
notebookutils.notebook.run('NB1', 200)  
notebookutils.notebook.run('NB1', 200, list("input"=30))
```

notebookutils.notebook.update
Update a notebook

Description

Update a notebook

Usage

```
notebookutils.notebook.update(  
  name,  
  newName,  
  description = "",  
  workspaceId = ""  
)
```

Arguments

| | |
|-------------|--|
| name | Name of the notebook |
| newName | New name of the notebook |
| description | Description of the notebook |
| workspaceId | Workspace id of the notebook, default to current workspace |

Value

A notebook object

notebookutils.notebook.updateDefinition
Get the definition of a notebook

Description

Get the definition of a notebook

Usage

```
notebookutils.notebook.updateDefinition(  
  name,  
  content,  
  defaultLakehouse = "",  
  defaultLakehouseWorkspace = "",  
  workspaceId = "",  
  environmentId = "",  
  environmentWorkspaceId = ""  
)
```

Arguments

| | |
|---------------------------|--|
| name | Name of the notebook |
| content | Definition of the notebook |
| defaultLakehouse | Default lakehouse of the notebook |
| defaultLakehouseWorkspace | Default lakehouse workspace of the notebook |
| workspaceId | Workspace id of the notebook, default to current workspace |
| environmentId | Environment id of the notebook, default to current environment |
| environmentWorkspaceId | Environment workspace id of the notebook |

Value

The definition of the notebook

notebookutils.notebook.updateNBSEndpoint
provide a way to make people can update the endpoint

Description

provide a way to make people can update the endpoint

Usage

notebookutils.notebook.updateNBSEndpoint(endpoint)

Arguments

| | |
|----------|---------------|
| endpoint | the new point |
|----------|---------------|

notebookutils.notebook.validateDAG
Check if the DAG is correctly defined, if the syntax is correct, and if notebooks are found in the workspace without actual execution. Details can be found in mssparkutils.notebook.help("validateDAG").

Description

Check if the DAG is correctly defined, if the syntax is correct, and if notebooks are found in the workspace without actual execution. Details can be found in mssparkutils.notebook.help("validateDAG").

Usage

```
notebookutils.notebook.validateDAG(dag)
```

Arguments

| | |
|-----|---|
| dag | A list of notebook names or a complex data structure (JSON string) that meets the requirements of the com.microsoft.spark.notebook.msutils.impl.MsNotebookPipeline scala class. |
|-----|---|

Value

check result

```
notebookutils.runtime.context
```

Get runtime properties

Description

Get runtime properties

Usage

```
notebookutils.runtime.context()
```

Value

A dummy env object to mimic the result of runtime context method when used in azure synapse runtime.

Examples

```
notebookutils.runtime.context()
```

notebookutils.runtime.help

notebookutils.runtime is a utility to manage runtime context. context() returns the runtime context as a list.

Description

notebookutils.runtime is a utility to manage runtime context. context() returns the runtime context as a list.

Usage

```
notebookutils.runtime.help(methodName = "")
```

Arguments

| | |
|------------|--|
| methodName | method name to get more information.am |
|------------|--|

notebookutils.runtime.setHcReplId

Set runtime high concurrency mode repl id

Description

Set runtime high concurrency mode repl id

Usage

```
notebookutils.runtime.setHcReplId(replId)
```

Arguments

| | |
|--------|-------------------------------|
| replId | High concurrency mode repl id |
|--------|-------------------------------|

notebookutils.session.stop
Stop an interactive session

Description

Stop an interactive session

Usage

```
notebookutils.session.stop(detach = TRUE)
```

Arguments

| | |
|--------|--|
| detach | If detach is True, stop session from standard session, or detach current notebook from high concurrency session; if detach is False, stop session in any session. Default is TRUE. |
|--------|--|

notebookutils.udf.getFunctions
Get UDF functions metadata.

Description

Dummy implementation for local development.

Usage

```
notebookutils.udf.getFunctions(udf, workspaceId = "")
```

Arguments

| | |
|-------------|-------------------------|
| udf | UDF artifact id or name |
| workspaceId | Workspace id |

Value

A dummy UDF object (list)

notebookutils.udf.getHelpString
Get help string for a method.

Description

Get help string for a method.

Usage

```
notebookutils.udf.getHelpString(funcName = "", namespace = "")
```

Arguments

| | |
|-----------|---------------|
| funcName | function name |
| namespace | namespace |

notebookutils.udf.help
Get help string for a method.

Description

Get help string for a method.

Usage

```
notebookutils.udf.help(methodName = "")
```

Arguments

| | |
|------------|--------------------|
| methodName | Name of the method |
|------------|--------------------|

notebookutils.udf.run *Run a User data functions (UDF).*

Description

Run a User data functions (UDF).

Usage

```
notebookutils.udf.run(  
  artifactId,  
  functionName,  
  parameters = list(),  
  workspaceId = "",  
  capacityId = ""  
)
```

Arguments

| | |
|--------------|---|
| artifactId | The UDF artifact id. |
| functionName | The UDF function name. |
| parameters | The UDF parameters. |
| workspaceId | The UDF workspace id, if not provided, it will be retrieved from the current workspace. |
| capacityId | The UDF capacity id, if not provided, it will be retrieved from the current capacity. |

Value

The UDF execution result.

notebookutils.variableLibrary.get
Get a variable value

Description

Dummy implementation for local development.

Usage

```
notebookutils.variableLibrary.get(variableReference)
```

Arguments

variableReference
Variable reference

Value

A variable value (NULL)

notebookutils.variableLibrary.getHelpString
Get help string for a method.

Description

Get help string for a method.

Usage

```
notebookutils.variableLibrary.getHelpString(funcName = "", namespace = "")
```

Arguments

| | |
|-----------|---------------|
| funcName | function name |
| namespace | namespace |

notebookutils.variableLibrary.getLibrary
Get a variable library

Description

Dummy implementation for local development.

Usage

```
notebookutils.variableLibrary.getLibrary(variableLibraryName)
```

Arguments

variableLibraryName
Variable library name

Value

A dummy variable library object (list)

Index

display, [4](#)
display.config, [5](#)
display.configCustomOptions, [6](#)
displayHTML, [6](#)
mssparkutils.credentials.getConnectionStringOrCreds, [7](#)
mssparkutils.credentials.getFullConnectionString, [7](#)
mssparkutils.credentials.getPropertiesAll, [8](#)
mssparkutils.credentials.getSecret, [8](#)
mssparkutils.credentials.getSecretWithLS, [9](#)
mssparkutils.credentials.getToken, [10](#)
mssparkutils.credentials.help, [10](#)
mssparkutils.credentials.isValidToken, [11](#)
mssparkutils.credentials.putSecret, [11](#)
mssparkutils.credentials.putSecretWithLS, [12](#)
mssparkutils.env.getClusterId, [13](#)
mssparkutils.env.getJobId, [13](#)
mssparkutils.env.getPoolName, [14](#)
mssparkutils.env.getUserId, [14](#)
mssparkutils.env.getUserName, [15](#)
mssparkutils.env.getWorkspaceName, [15](#)
mssparkutils.env.help, [16](#)
mssparkutils.fs.append, [16](#)
mssparkutils.fs.cp, [17](#)
mssparkutils.fs.exists, [17](#)
mssparkutils.fs.fastcp, [18](#)
mssparkutils.fs.getMountPath, [19](#)
mssparkutils.fs.head, [19](#)
mssparkutils.fs.help, [20](#)
mssparkutils.fs.ls, [21](#)
mssparkutils.fs.mkdir, [21](#)
mssparkutils.fs.mount, [22](#)
mssparkutils.fs.mounts, [22](#)
mssparkutils.fs.mountToDriverNode, [23](#)
mssparkutils.fs.mv, [23](#)
mssparkutils.fs.put, [24](#)
mssparkutils.fs.refreshMounts, [25](#)
mssparkutils.fs.rm, [25](#)
mssparkutils.fs.unmount, [26](#)
mssparkutils.fs.unmountFromDriverNode, [26](#)
mssparkutils.help, [27](#)
mssparkutils.lakehouse.create, [27](#)
mssparkutils.lakehouse.delete, [28](#)
mssparkutils.lakehouse.get, [28](#)
mssparkutils.lakehouse.help, [29](#)
mssparkutils.lakehouse.list, [29](#)
mssparkutils.lakehouse.update, [30](#)
mssparkutils.nbResPath, [30](#)
mssparkutils.notebook.exit, [31](#)
mssparkutils.notebook.help, [31](#)
mssparkutils.notebook.run, [32](#)
mssparkutils.notebook.runMultiple, [33](#)
mssparkutils.notebook.updateNBSEndpoint, [33](#)
mssparkutils.notebook.validateDAG, [34](#)
mssparkutils.runtime.context, [34](#)
mssparkutils.runtime.setHcReplId, [35](#)
mssparkutils.session.stop, [35](#)
notebookutils.conf.get, [36](#)
notebookutils.conf.set, [36](#)
notebookutils.connections.getCredential, [37](#)
notebookutils.connections.getHelpString, [37](#)
notebookutils.credentials.getConnectionStringOrCreds, [38](#)
notebookutils.credentials.getFullConnectionString, [38](#)
notebookutils.credentials.getPropertiesAll, [39](#)
notebookutils.credentials.getSecret, [39](#)

notebookutils.credentials.getSecretWithLS, 40
notebookutils.credentials.getToken, 41
notebookutils.credentials.help, 41
notebookutils.credentials.isValidToken, 42
notebookutils.credentials.putSecret, 42
notebookutils.credentials.putSecretWithLS, 43
notebookutils.env.getClusterId, 44
notebookutils.env.getJobId, 44
notebookutils.env.getPoolName, 45
notebookutils.env.getUserId, 45
notebookutils.env.getUserName, 46
notebookutils.env.getWorkspaceName, 46
notebookutils.env.help, 47
notebookutils.fabricClient.delete, 47
notebookutils.fabricClient.get, 48
notebookutils.fabricClient.help, 48
notebookutils.fabricClient.listCapacities, 49
notebookutils.fabricClient.patch, 49
notebookutils.fabricClient.post, 50
notebookutils.fabricClient.put, 50
notebookutils.fs.append, 51
notebookutils.fs.cp, 51
notebookutils.fs.exists, 52
notebookutils.fs.fastcp, 53
notebookutils.fs.getMountPath, 53
notebookutils.fs.head, 54
notebookutils.fs.help, 55
notebookutils.fs.ls, 55
notebookutils.fs.mkdir, 56
notebookutils.fs.mount, 57
notebookutils.fs.mounts, 57
notebookutils.fs.mountToDriverNode, 58
notebookutils.fs.mv, 58
notebookutils.fs.put, 59
notebookutils.fs.refreshMounts, 60
notebookutils.fs.rm, 60
notebookutils.fs.unmount, 61
notebookutils.fs.unmountFromDriverNode, 61
notebookutils.help, 62
notebookutils.initialize, 62
notebookutils.lakehouse.create, 63
notebookutils.lakehouse.delete, 63
notebookutils.lakehouse.get, 64
notebookutils.lakehouse.getDefinition, 64
notebookutils.lakehouse.getWithProperties, 65
notebookutils.lakehouse.help, 65
notebookutils.lakehouse.list, 66
notebookutils.lakehouse.listTables, 66
notebookutils.lakehouse.loadTable, 67
notebookutils.lakehouse.update, 67
notebookutils.lakehouse.updateDefinition, 68
notebookutils.nbResPath, 68
notebookutils.notebook.create, 69
notebookutils.notebook.delete, 69
notebookutils.notebook.exit, 70
notebookutils.notebook.get, 70
notebookutils.notebook.help, 71
notebookutils.notebook.list, 71
notebookutils.notebook.run, 72
notebookutils.notebook.update, 73
notebookutils.notebook.updateDefinition, 73
notebookutils.notebook.updateNBSEndpoint, 74
notebookutils.notebook.validateDAG, 74
notebookutils.runtime.context, 75
notebookutils.runtime.help, 76
notebookutils.runtime.setHcReplId, 76
notebookutils.session.stop, 77
notebookutils.udf.getFunctions, 77
notebookutils.udf.getHelpString, 78
notebookutils.udf.help, 78
notebookutils.udf.run, 79
notebookutils.variableLibrary.get, 79
notebookutils.variableLibrary.getHelpString, 80
notebookutils.variableLibrary.getLibrary, 80