

# DATABRICKS

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Home > Databricks\_demo\_Databricks\_PMS | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

**✓ Your deployment is complete**

Deployment name : Databricks\_demo\_Databricks\_... Start time : 9/27/2023, 9:23:49 AM  
Subscription : npunext-1673505322675 Correlation ID : 1deb6cd9-ea67-4701-8f5e-44...  
Resource group : Databricks\_demo

> Deployment details

Next steps

[Go to resource](#)

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Home > storagepmsdemo\_1695786968755 | Overview

Deployment

Search

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Overview

Inputs

Outputs

Template

**✓ Your deployment is complete**

Deployment name : storagepmsdemo\_16957... Start time : 9/27/2023, 9:26:13 AM  
Subscription : npunext-1673505322675 Correlation ID : b7db3693-87cd-459e-851f-776195eb2  
Resource group : Databricks\_demo

> Deployment details

Next steps

[Go to resource](#)

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**Deployment succeeded**  
Deployment 'storagepmsdemo\_1695786968755' to resource group 'Databricks\_demo' was successful.  
[Go to resource](#) [Pin to dashboard](#)

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databricks

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CTRL + P

Databricks\_PMS

shellunext\_1693422264319@npun...

New

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Delta Live Tables

Machine Learning

Experiments

Compute > UI preview Send feedback

Shellunext's Cluster

More Terminate Edit

Configuration Notebooks (0) Libraries Event log Spark UI Driver logs Metrics Apps Spark compute UI - Master

Policy

Unrestricted

Multi nodeSingle node

Access mode

Single user access

Single userShellunext

Performance

Databricks Runtime Version

13.3 LTS (includes Apache Spark 3.4.1, Scala 2.12)

Use Photon Acceleration

Worker type

Standard\_DS3\_v214 GB Memory, 4 Cores

Min workersMax workersCurrent

121Spot instances

Driver type

Standard\_DS3\_v214 GB Memory, 4 Cores

Summary

1-2 Workers14-28 GB Memory4-8 Cores

1 Driver14 GB Memory, 4 Cores

Runtime13.3.x-scala2.12

Standard\_DS3\_v21-3 DBU/h

Microsoft Azure

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Shellunext\_1693422264...  
UNEXT (NPUNEXT.ONMICROSOFT...)

Home > storagepmsdemo | Containers >

raw  
Container

Search

UploadAdd DirectoryRefreshRenameDeleteChange tierAcquire leaseBreak leaseGive feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Manage ACL

Access policy

Properties

Metadata

Authentication method: Access key (Switch to Azure AD User Account)

Location: raw / json

Search blobs by prefix (case-sensitive)

Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size
[.]					
14.8.2023.json	9/27/2023, 10:00:36 ...	Hot (Inferred)		Block blob	16.8

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New Workspace Recents Catalog Workflows Compute SQL SQL Editor Queries Dashboards Alerts Query History SQL Warehouses Data Engineering Job Runs Data Ingestion Delta Live Tables Machine Learning Experiments

### Untitled Notebook 2023-09-27 10:07:32 Python

File Edit View Run Help Last edit was 1 minute ago Provide feedback Run all Shellunext's Cluster Schedule Share

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Cmd 1

```
1 dbutils.fs.mount(
2   source = "wasbs://raw@storagepmsdemo.blob.core.windows.net",
3   mount_point = "/mnt/storagepmsdemo/raw",
4   extra_configs = {"fs.azure.account.key.storagepmsdemo.blob.core.windows.net": "kpvUobdy/eC+1vZhvf6PEj0LZVA8doQ8x1qzybhx/u89MQNHSEe537JhcIV1YMR70gh1jYc7x+AST8L7iQ0=="})
```

True

Command took 16.07 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:09:37 AM on Shellunext's Cluster

Cmd 2

```
1 %fs ls dbfs:/mnt/storagepmsdemo/raw/json
```

path	name	size	modificationTime
dbfs:/mnt/storagepmsdemo/raw/json/14.8.2023.json	14.8.2023.json	17256	1695789036000

1 row | 0.53 seconds runtime Refreshed now

Command took 0.53 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:12:23 AM on Shellunext's Cluster

Cmd 3

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### Untitled Notebook 2023-09-27 10:07:32 Python

File Edit View Run Help Last edit was 1 minute ago Provide feedback Run all Shellunext's Cluster Schedule Share

```
1 df=spark.read.json("dbfs:/mnt/storagepmsdemo/raw/json")
```

(1) Spark Jobs

df: pyspark.sql.dataframe.DataFrame = [humidity: double, pressure: double ... 3 more fields]

Command took 8.90 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:12:50 AM on Shellunext's Cluster

Cmd 4

```
1 df.display()
```

(1) Spark Jobs

	humidity	pressure	sensor_id	temperature	timestamp
1	49.99	1003.39	1895b922-5c66-4d7b-bcfa-ec6bb355b0ec	26.08	1993-04-13T22:04:18
2	56.99	1010.56	c7111856-eaf2-43da-827e-ae70232842b1	20.3	1988-10-31T14:38:45
3	41.29	1012.52	5a61a7b2-724d-4d84-b4f6-f51f7039ae97	26.56	1987-04-24T22:18:32
4	47.78	1014.82	e308eb54-ed3f-4c28-8552-44c5c88e7fa1	29.73	1993-11-23T04:18:17
5	58.92	1000.05	b113908a-6963-470c-9788-510521eb8a74	21.08	2007-03-02T14:42:08
6	46.51	1008.96	80d978e1-e602-42a4-8521-e19a0130e9e0	25.6	1988-09-06T19:31:24
7	55.16	1005.49	a774d805-3d92-4d47-a6c2-361f40d15d67	29.36	1971-10-05T16:21:51

113 rows | 0.88 seconds runtime Refreshed now

Command took 0.88 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:13:40 AM on Shellunext's Cluster

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### Untitled Notebook 2023-09-27 10:07:32 Python

File Edit View Run Help Last edit was 4 minutes ago Provide feedback Run all Shellunext's Cluster Schedule Share

```
1 from pyspark.sql.functions import *
```

Command took 0.07 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:16:33 AM on Shellunext's Cluster

Cmd 6

```
1 df1=df.withColumn("ingestiondate",current_timestamp()).withColumn("path",input_file_name())
```

df1: pyspark.sql.dataframe.DataFrame = [humidity: double, pressure: double ... 5 more fields]

Command took 0.14 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:17:33 AM on Shellunext's Cluster

Cmd 7

```
1 %sql
2 create schema if not exists json
```

OK

Command took 0.70 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:19:25 AM on Shellunext's Cluster

Cmd 8

```
1 df.write.mode("overwrite").option("path","dbfs:/mnt/storagepmsdemo/raw/output/priya/json").saveAsTable("jsonbronze")
```

(6) Spark Jobs

Command took 5.10 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 10:23:32 AM on Shellunext's Cluster

Cmd 9

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Home > Microsoft.DataFactory-20230927111330 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

### Your deployment is complete

Deployment name : Microsoft.DataFactory-202309... Start time : 9/27/2023, 11:15:08 AM  
Subscription : npunext-1673505322675 Correlation ID : 786f872a-29bc-4585-801d-a5...  
Resource group : Databricks\_demo

Deployment details

Next steps

Go to resource

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**Factory Resources**

Filter resources by name

- Pipelines 1
  - pipeline1
- Change Data Capture (preview) 0
- Datasets 0
- Data flows 0
- Power Query 0

**Activities**

Search activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
  - Notebook
  - Jar
  - Python
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals

**Notebook**

Notebook1

General Azure Databricks Settings

Name \* Notebook1 [Learn more](#)

Description

**Properties**

General Related

Name \* pipeline1

Description

Annotations

+ New

Publishing completed  
Successfully published

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**Activities**

Search activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

**Notebook**

Notebook1

Parameters Variables Settings **Output**

**Pipeline run ID:** 496c2dd3-12be-4aba-b2be-a52f7017b4c2 [View debug run consumption](#)

**Pipeline status:** Succeeded [Monitor in Azure Metrics](#) [Export to CSV](#)

All status

Showing 1 - 1 of 1 items

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User
Notebook1	Succeeded	Notebook	9/27/2023, 11:38:56 AM	34s	AutoResolveIntegration	

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Untitled Notebook 2023-09-27 11:42:57 Python File Edit View Run Help Last edit was now Provide feedback Run all Shellunext's Cluster Schedule Share

```
1 %sql
2 select count(*) from jsonbronze1
```

(5) Spark Jobs

\_sqldf: pyspark.sql.dataframe.DataFrame = [count(1): long]

count(1)
333

1 row | 2.12 seconds runtime Refreshed 3 minutes ago

This result is stored as PySpark data frame \_sqldf and in the IPython output cache as Out[1]. Learn more

Command took 2.12 seconds -- by shellunext\_169342264319@npunext.onmicrosoft.com at 9/27/2023, 11:44:09 AM on Shellunext's Cluster

Cmd 2

```
1 %sql
2 select count(*) from jsonbronze1
```

(4) Spark Jobs

\_sqldf: pyspark.sql.dataframe.DataFrame = [count(1): long]

count(1)
443

1 row | 0.61 seconds runtime Refreshed now

This result is stored as PySpark data frame \_sqldf and in the IPython output cache as Out[3]. Learn more

Command took 0.61 seconds -- by shellunext\_169342264319@npunext.onmicrosoft.com at 9/27/2023, 11:46:48 AM on Shellunext's Cluster

← ↻ 🔒 https://adb-2039996206704981.1.azuredatabricks.net/browse/folders/4006023906612587?o=2039996206704981 🔍 A ☆ 📄 📁 🔄 🔄 ...

Databricks Send feedback

Successfully committed and pushed changes to branch "main"  
Create a pull request on your git provider

Branch: main Create Branch History Pull

Changes Settings

No changed files

Commit message (required)

Description (optional)

Commit & Push

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GettingStarted

Permissions

Edit

Stop

Overview

Connection details

Monitoring

Status

Running

Name

GettingStarted (ID: 001f7a15f14bfc58)

Type

Pro

Cluster size

2X-Small

Auto stop

After 45 minutes of inactivity

Scaling

Cluster count: Active 1 Min 1 Max 1

Channel

Current (v 2023.35)

Spot instance policy

Cost optimized

Created by

shellunext\_1693422264319@npunext.onmicrosoft.com

Microsoft Azure

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Databricks\_PMS

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New

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Type to filter

For you

All

hive\_metastore

samples

New query

Run (1000)

hive\_metastore.default

GettingStarted Pro 2XS

Save\*

Schedule

Share

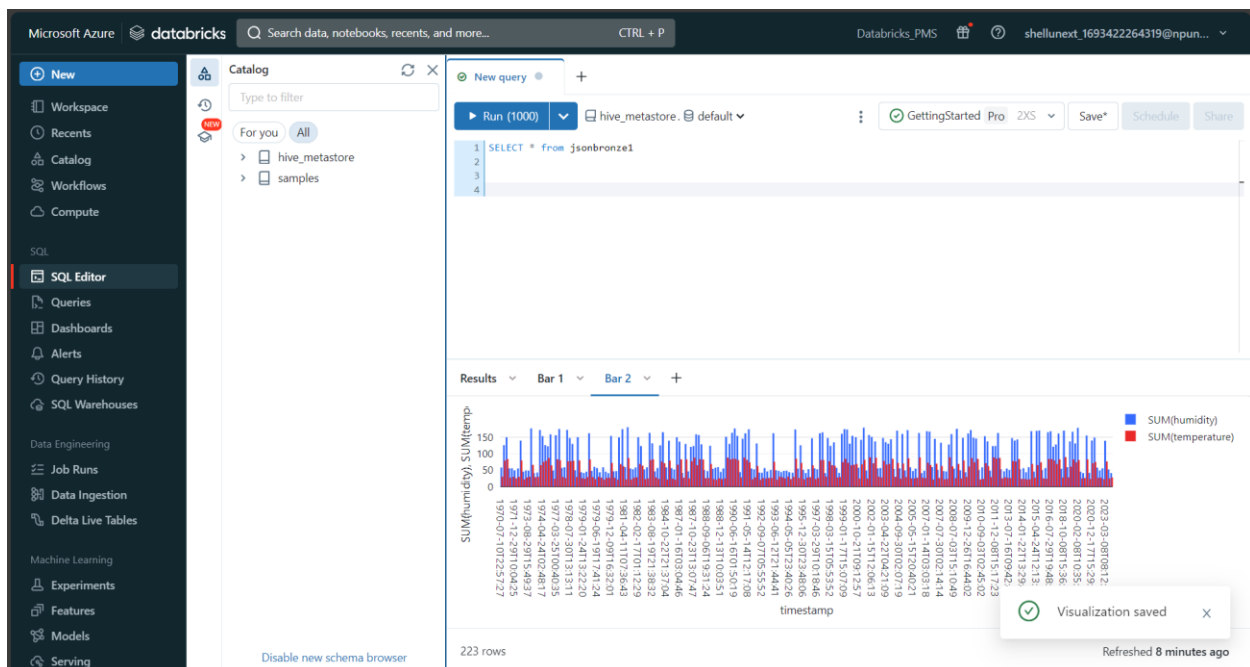
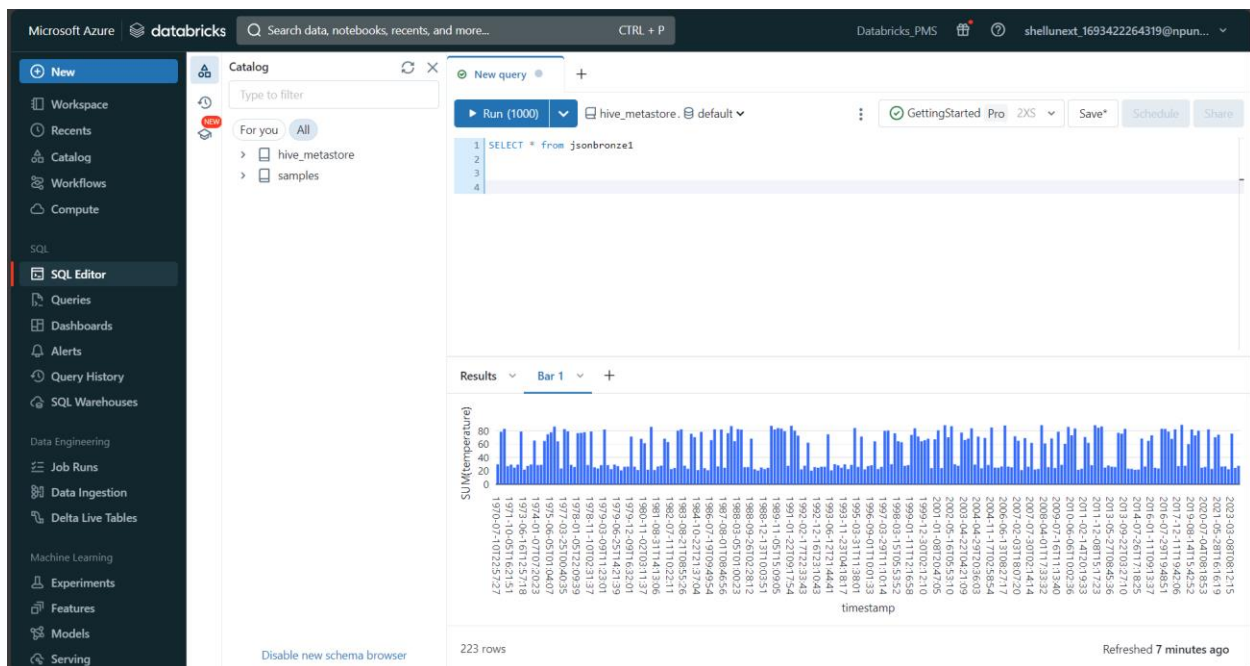
1 SELECT \* from jsonbronze1

Results

#	humidity	pressure	sensor_id	temperature	timestamp	ingestionda
1	49.99	1003.39	1895b922-5c66-4d7b-bcfa-ec6bb355b0ec	26.08	1993-04-13T22:04:18	2023-05
2	56.99	1010.56	c7111856-eaf2-43da-827e-ae70232842b1	20.30	1988-10-31T14:38:45	2023-05
3	41.29	1012.52	5a61a7b2-724d-4d84-b4f6-f51f7039ae97	26.56	1987-04-24T22:18:32	2023-05
4	47.78	1014.82	e308eb54-ed3f-4c28-8552-44c5c88e7fa1	29.73	1993-11-23T04:18:17	2023-05
5	58.92	1000.05	b113908a-6963-470c-9788-510521eb8a74	21.08	2007-03-02T14:42:08	2023-05

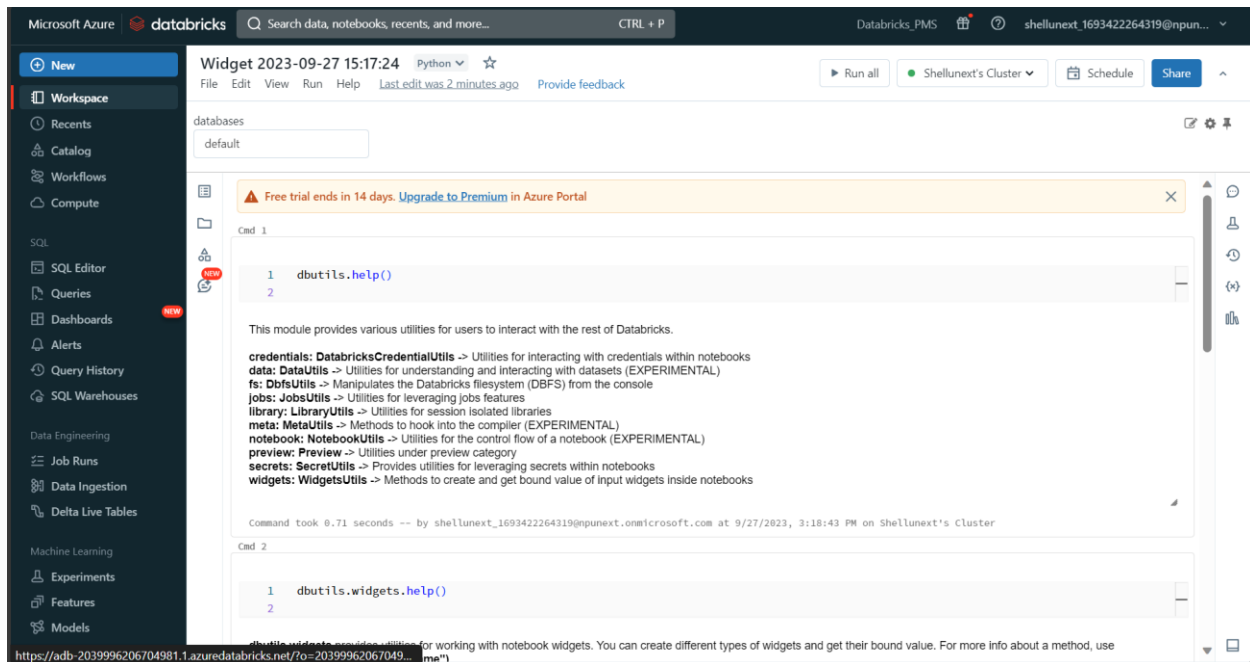
15 s 941 ms | 443 rows returned

Refreshed just now





## Widget:



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Widget 2023-09-27 15:17:24 Python ☆ File Edit View Run Help Last edit was 2 minutes ago Provide feedback Run all Shellunext's Cluster Schedule Share

databases default

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Cmd 1

```
1 dbutils.help()
2
```

This module provides various utilities for users to interact with the rest of Databricks.

**credentials:** **DatabricksCredentialUtils** -> Utilities for interacting with credentials within notebooks  
**data:** **DataUtils** -> Utilities for understanding and interacting with datasets (EXPERIMENTAL)  
**fs:** **DbfsUtils** -> Manipulates the Databricks filesystem (DBFS) from the console  
**jobs:** **JobsUtils** -> Utilities for leveraging jobs features  
**library:** **LibraryUtils** -> Utilities for session isolated libraries  
**meta:** **MetaUtils** -> Methods to hook into the compiler (EXPERIMENTAL)  
**notebook:** **NotebookUtils** -> Utilities for the control flow of a notebook (EXPERIMENTAL)  
**preview:** **Preview** -> Utilities under preview category  
**secrets:** **SecretUtils** -> Provides utilities for leveraging secrets within notebooks  
**widgets:** **WidgetsUtils** -> Methods to create and get bound value of input widgets inside notebooks

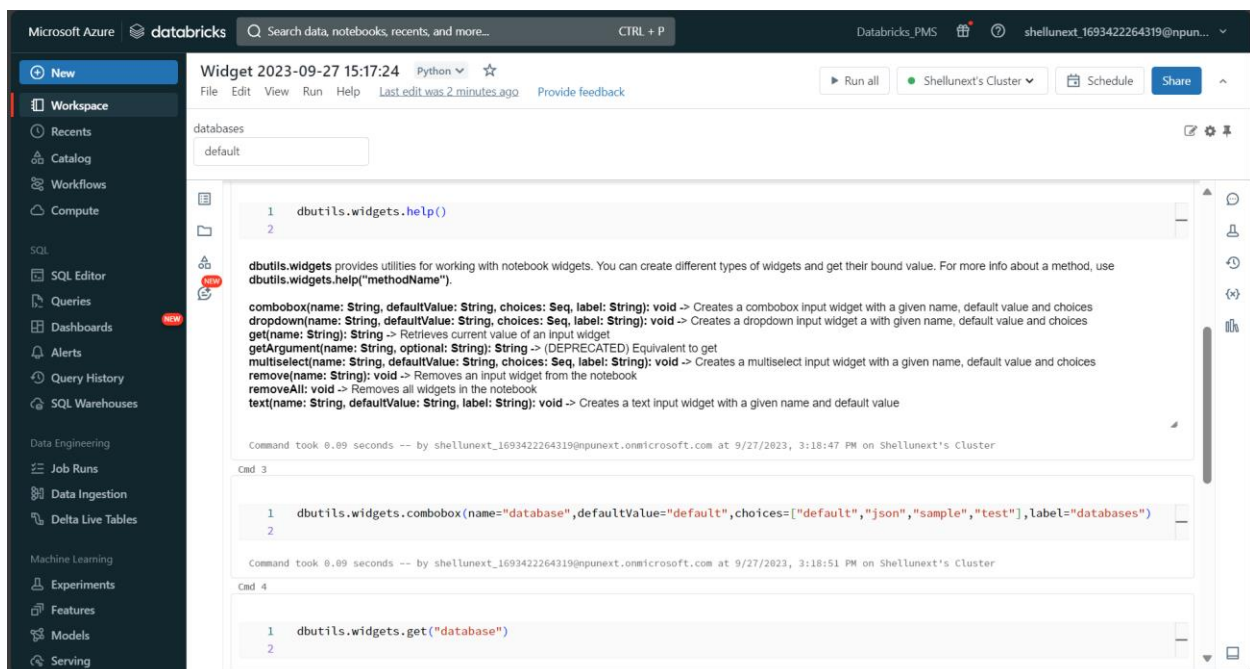
Command took 0.71 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 3:18:43 PM on Shellunext's Cluster

Cmd 2

```
1 dbutils.widgets.help()
2
```

dbutils.widgets provides utilities for working with notebook widgets. You can create different types of widgets and get their bound value. For more info about a method, use dbutils.widgets.help("methodName").

https://adb-2039962067049811.1.azuredatabricks.net/?o=20399962067049...



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Widget 2023-09-27 15:17:24 Python ☆ File Edit View Run Help Last edit was 2 minutes ago Provide feedback Run all Shellunext's Cluster Schedule Share

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Cmd 1

```
1 dbutils.widgets.help()
2
```

dbutils.widgets provides utilities for working with notebook widgets. You can create different types of widgets and get their bound value. For more info about a method, use dbutils.widgets.help("methodName").

**combobox(name: String, defaultValue: String, choices: Seq, label: String): void** -> Creates a combobox input widget with a given name, default value and choices  
**dropdown(name: String, defaultValue: String, choices: Seq, label: String): void** -> Creates a dropdown input widget with a given name, default value and choices  
**get(name: String): String** -> Retrieves current value of an input widget  
**getArgument(name: String, optional: String): String** -> (DEPRECATED) Equivalent to get  
**multiselect(name: String, defaultValue: String, choices: Seq, label: String): void** -> Creates a multiselect input widget with a given name, default value and choices  
**remove(name: String): void** -> Removes an input widget from the notebook  
**removeAll(): void** -> Removes all widgets in the notebook  
**text(name: String, defaultValue: String, label: String): void** -> Creates a text input widget with a given name and default value

Command took 0.09 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 3:18:47 PM on Shellunext's Cluster

Cmd 3

```
1 dbutils.widgets.combobox(name="database",defaultValue="default",choices=["default","json","sample","test"],label="databases")
2
```

Command took 0.09 seconds -- by shellunext\_1693422264319@npunext.onmicrosoft.com at 9/27/2023, 3:18:51 PM on Shellunext's Cluster

Cmd 4

```
1 dbutils.widgets.get("database")
2
```