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Module 5 Cheat Sheet: Development and Runtime Environment Options

Package or method	Description	Code example
		1. 1
	Gets an existing	<pre>1. from pyspark.sql import SparkSession Copied!</pre>
	SparkSession or, if there is	Create a SparkSession or get an existing one:
SparkSession.builder.getOrCreate()		1. 1
		<pre>1. 1 1. spark = SparkSession.builder.appName("myApp").getOrCreate()</pre>
		Copied!
		Now you can use the spark object to work with Spark
		Basic syntax of cd command:
		1. 1
		 cd [options] [directory]
		Copied!
		Example 1: Change directory location to folder1:
	Used to move efficiently from the existing working directory to different directories on	1. 1
		<pre>1. cd /usr/local/folder1</pre>
cd		Copied!
cu		Example 2: Get back to the previous working directory
		1. 1
	your system.	1. cd -
		Copied!
		Example 3: Move up one level from the present working directory tree
		1. 1
		1. cd
		Copied!
docker-compose	Tool for defining and	Example (docker-compose.yml)
	running multicontainer Docker applications.	1. 1 2. 2
		3. 3
		4. 4 5. 5
	It uses the	6. 6
	YAML file to	7. 7
	configure the	8.8
	services and	1. version: '3'
	enables us to create and	2. services:3. web:
	CICAIC AIIU	4. image: nginx:latest

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Package or method	DescriptionCode examplestart all the5. ports:services from6 "80:80"just one7. db:configuration8. image: postgres:latestfile.Copied!
git clone	You can create a copy of a specific repository or branch within a repository. 1. 1 1. git clone REPOSITORY_URL [DESTINATION_DIRECTORY] Copied!
	Used to make code from one module accessible in another. Python imports are crucial for a
import	successful 1. 1 code structure. You may reuse code and keep your projects manageable by using imports effectively to increase
pip	productivity. To ensure that requests will function, the pip program searches for the package in the Python 1. 1 Package Index (PyPI), resolves any dependencies, and installs everything in your current
pip install	Python environment. The pip install <package> command looks for the latest version of the package and installs it. 1. 1 command copied! copied!</package>
pip3 install	pip3 is the official package 1. pip3 install package_name manager and pip command for Python 3.

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Package or method	Description	Code example
	It enables	
	installing and managing	
	third-party	
	software	
	packages with features and	1
	functionality	
	not found in	
	the Python standard	
	library. Pip3	
	installs packages	
	from PyPI	
	(Python	
	Package Index), but it	
	won't resolve	
	dependencies or help you	
	solve	
	dependency conflicts.	
	Prints the	
	specified message to	
	the screen or	
	other standard	l
	device.	1. 1
print()	The message	 print("Hello, World!")
print()	can be a string	
	or any other object; the	Copieu:
	object, the	
	converted into	
	a string before being written	3
	to the screen.	
	Python 3 is a	1. 1 2. 2
	widely used programming	
python3	language	1. sudo apt-get update
	known for its readability	 sudo apt-get install python3 python3version #to verify the python version
	and	Copied!
sc.setloglevel()	versatility. Using this	Import necessary modules:
	method, you can change	1. 1
	the log level	1. from pyspark import SparkContext
	to the desired	
	level. Valid log levels	Copied!
	include ALL, DEBUG,	Create a SparkContext:
	ERROR,	1. 1
	FATAL, INFO, OFF,	<pre>1. sc = SparkContext("local", "LogLevelExample")</pre>
	nuo, om,	

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Package or method	Description	Code example
	TRACE, and WARN.	Copied!
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Set the log level to a desired level (e.g., INFO, ERROR):
		1. 1
		<pre>1. sc.setLogLevel("INFO")</pre>
		Copied!
		Now, any logging messages with a severity level equal to or higher than INFO will be displayed
	Denotes where to run your Spark application, local or cluster. When you run on a cluster, you need to	1. 1 2. 2
	specify the address of the	3. 3
setMaster()	Spark master or Driver URL for a	<pre>1. <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
	distributed cluster. We	Copied!
	usually assign a local[*]	
	value to	
	setMaster() in Spark while doing internal testing.	
	Spark DataFrame	
	show() is used	
	to display the contents of	
	the DataFrame in	
	a table row	1. 1
show()	and column format. By	1. df.show()
	default, it shows only	Copied!
	twenty rows,	
	and the column values	
	are truncated	
	at twenty characters.	
source	Used to	Assuming a Bash shell:
	execute a script file in	1. 1
	the current shell	1. source myscript.sh
	environment,	Copied!
	allowing you to modify the	
	current shell	

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Package or method	Description	Code example
	environment	
	in the same	
	way you	
	would if you	
	had typed	
	commands	
	manually.	
	Primarily a	
	command-line	
	application. It	
	modifies the	
	environment	
	variables in a	
	shell to create	
	an isolated	Creating a virtual environment named "myenv":
	Python	Creating a virtual crivironment named injenv.
	environment,	1. 1
virtualenv	so you'll need	
	to have a shell	 virtualenv myenv
	to run it. You	Copied!
	can type in	Copied:
	virtualenv	
	(name of the	
	application),	
	followed by	
	flags that	
	control its	
	behavior.	

Changelog

Date Versi	on Changed by	Change Description
2023-09-19 2.0	Kunal Merchant	QC reviewed with request to recheck color used to highlight code
2023-09-15 1.0	Sameeksha Saxen	a Initial version created

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