Windows PowerShell

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\WINDOWS\system32> docker container run -it -p 9870:9870 -p 8088:8088 registry.gitlab.com/training-support/training-environments:hadoop-v1 bash

docker: Error response from daemon: driver failed programming external connectivity on endpoint funny\_mccarthy (87ac689df38c12ae082cf375a843b105b2455f56018f8ac72bd20c828bc66428): Bind for 0.0.0.0:9870 failed: port is already allocated.

PS C:\WINDOWS\system32> docker container run -it -p 9870:9870 -p 8088:8088 registry.gitlab.com/training-support/training-environments:hadoop-v1 bash

/

\* Starting OpenBSD Secure Shell server sshd [ OK ]

Waiting for hdfs to exit from safemode

Safe mode is OFF

Started

root@26c5e0e439bc:/#

root@26c5e0e439bc:/# whoami

root

root@26c5e0e439bc:/# hdfs dfs -ls /

Found 1 items

drwxr-xr-x - root supergroup 0 2021-08-23 10:43 /user

root@26c5e0e439bc:/# hdfs dfs -ls /user

Found 1 items

drwxr-xr-x - root supergroup 0 2021-08-23 10:44 /user/root

root@26c5e0e439bc:/# cd /user

bash: cd: /user: No such file or directory

root@26c5e0e439bc:/# hdfs dfs -mkdir /user/clekha

root@26c5e0e439bc:/# hdfs dfs -ls /clekha

ls: `/clekha': No such file or directory

root@26c5e0e439bc:/# hdfs dfs -ls /user

Found 2 items

drwxr-xr-x - root supergroup 0 2022-03-28 14:06 /user/clekha

drwxr-xr-x - root supergroup 0 2021-08-23 10:44 /user/root

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

root@26c5e0e439bc:/# hdfs dfs touchz/user/clekha/myfile.txt

touchz/user/clekha/myfile.txt: Unknown command

Usage: hadoop fs [generic options]

[-appendToFile <localsrc> ... <dst>]

[-cat [-ignoreCrc] <src> ...]

[-checksum [-v] <src> ...]

[-chgrp [-R] GROUP PATH...]

[-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]

[-chown [-R] [OWNER][:[GROUP]] PATH...]

[-concat <target path> <src path> <src path> ...]

[-copyFromLocal [-f] [-p] [-l] [-d] [-t <thread count>] <localsrc> ... <dst>]

[-copyToLocal [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]

[-count [-q] [-h] [-v] [-t [<storage type>]] [-u] [-x] [-e] [-s] <path> ...]

[-cp [-f] [-p | -p[topax]] [-d] <src> ... <dst>]

[-createSnapshot <snapshotDir> [<snapshotName>]]

[-deleteSnapshot <snapshotDir> <snapshotName>]

[-df [-h] [<path> ...]]

[-du [-s] [-h] [-v] [-x] <path> ...]

[-expunge [-immediate] [-fs <path>]]

[-find <path> ... <expression> ...]

[-get [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]

[-getfacl [-R] <path>]

[-getfattr [-R] {-n name | -d} [-e en] <path>]

[-getmerge [-nl] [-skip-empty-file] <src> <localdst>]

[-head <file>]

[-help [cmd ...]]

[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [-e] [<path> ...]]

[-mkdir [-p] <path> ...]

[-moveFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>]

[-moveToLocal <src> <localdst>]

[-mv <src> ... <dst>]

[-put [-f] [-p] [-l] [-d] [-t <thread count>] <localsrc> ... <dst>]

[-renameSnapshot <snapshotDir> <oldName> <newName>]

[-rm [-f] [-r|-R] [-skipTrash] [-safely] <src> ...]

[-rmdir [--ignore-fail-on-non-empty] <dir> ...]

[-setfacl [-R] [{-b|-k} {-m|-x <acl\_spec>} <path>]|[--set <acl\_spec> <path>]]

[-setfattr {-n name [-v value] | -x name} <path>]

[-setrep [-R] [-w] <rep> <path> ...]

[-stat [format] <path> ...]

[-tail [-f] [-s <sleep interval>] <file>]

[-test -[defswrz] <path>]

[-text [-ignoreCrc] <src> ...]

[-touch [-a] [-m] [-t TIMESTAMP (yyyyMMdd:HHmmss) ] [-c] <path> ...]

[-touchz <path> ...]

[-truncate [-w] <length> <path> ...]

[-usage [cmd ...]]

Generic options supported are:

-conf <configuration file> specify an application configuration file

-D <property=value> define a value for a given property

-fs <file:///|hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.

-jt <local|resourcemanager:port> specify a ResourceManager

-files <file1,...> specify a comma-separated list of files to be copied to the map reduce cluster

-libjars <jar1,...> specify a comma-separated list of jar files to be included in the classpath

-archives <archive1,...> specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:

command [genericOptions] [commandOptions]

root@26c5e0e439bc:/# hdfs dfs -touchz/user/clekha/myfile.txt

-touchz/user/clekha/myfile.txt: Unknown command

Usage: hadoop fs [generic options]

[-appendToFile <localsrc> ... <dst>]

[-cat [-ignoreCrc] <src> ...]

[-checksum [-v] <src> ...]

[-chgrp [-R] GROUP PATH...]

[-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]

[-chown [-R] [OWNER][:[GROUP]] PATH...]

[-concat <target path> <src path> <src path> ...]

[-copyFromLocal [-f] [-p] [-l] [-d] [-t <thread count>] <localsrc> ... <dst>]

[-copyToLocal [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]

[-count [-q] [-h] [-v] [-t [<storage type>]] [-u] [-x] [-e] [-s] <path> ...]

[-cp [-f] [-p | -p[topax]] [-d] <src> ... <dst>]

[-createSnapshot <snapshotDir> [<snapshotName>]]

[-deleteSnapshot <snapshotDir> <snapshotName>]

[-df [-h] [<path> ...]]

[-du [-s] [-h] [-v] [-x] <path> ...]

[-expunge [-immediate] [-fs <path>]]

[-find <path> ... <expression> ...]

[-get [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]

[-getfacl [-R] <path>]

[-getfattr [-R] {-n name | -d} [-e en] <path>]

[-getmerge [-nl] [-skip-empty-file] <src> <localdst>]

[-head <file>]

[-help [cmd ...]]

[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [-e] [<path> ...]]

[-mkdir [-p] <path> ...]

[-moveFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>]

[-moveToLocal <src> <localdst>]

[-mv <src> ... <dst>]

[-put [-f] [-p] [-l] [-d] [-t <thread count>] <localsrc> ... <dst>]

[-renameSnapshot <snapshotDir> <oldName> <newName>]

[-rm [-f] [-r|-R] [-skipTrash] [-safely] <src> ...]

[-rmdir [--ignore-fail-on-non-empty] <dir> ...]

[-setfacl [-R] [{-b|-k} {-m|-x <acl\_spec>} <path>]|[--set <acl\_spec> <path>]]

[-setfattr {-n name [-v value] | -x name} <path>]

[-setrep [-R] [-w] <rep> <path> ...]

[-stat [format] <path> ...]

[-tail [-f] [-s <sleep interval>] <file>]

[-test -[defswrz] <path>]

[-text [-ignoreCrc] <src> ...]

[-touch [-a] [-m] [-t TIMESTAMP (yyyyMMdd:HHmmss) ] [-c] <path> ...]

[-touchz <path> ...]

[-truncate [-w] <length> <path> ...]

[-usage [cmd ...]]

Generic options supported are:

-conf <configuration file> specify an application configuration file

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-fs <file:///|hdfs://namenode:port> specify default filesystem URL to use, overrides 'fs.defaultFS' property from configurations.

-jt <local|resourcemanager:port> specify a ResourceManager

-files <file1,...> specify a comma-separated list of files to be copied to the map reduce cluster

-libjars <jar1,...> specify a comma-separated list of jar files to be included in the classpath

-archives <archive1,...> specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:

command [genericOptions] [commandOptions]

root@26c5e0e439bc:/# hdfs dfs -touchz /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 1 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -ls /user

Found 2 items

drwxr-xr-x - root supergroup 0 2022-03-28 14:10 /user/clekha

drwxr-xr-x - root supergroup 0 2021-08-23 10:44 /user/root

root@26c5e0e439bc:/# touch input.txt

root@26c5e0e439bc:/# hdfs dfs -copyFromLocal ./input.txt /user/clekha

root@26c5e0e439bc:/# hdfs -dfs -ls /user/clekha

/usr/local/hadoop/libexec/hadoop-functions.sh: line 2425: HDFS\_-DFS\_USER: bad substitution

/usr/local/hadoop/libexec/hadoop-functions.sh: line 2386: HDFS\_-DFS\_USER: bad substitution

ERROR: -dfs is not COMMAND nor fully qualified CLASSNAME.

Usage: hdfs [OPTIONS] SUBCOMMAND [SUBCOMMAND OPTIONS]

OPTIONS is none or any of:

--buildpaths attempt to add class files from

build tree

--config dir Hadoop config directory

--daemon (start|status|stop) operate on a daemon

--debug turn on shell script debug mode

--help usage information

--hostnames list[,of,host,names] hosts to use in worker mode

--hosts filename list of hosts to use in worker mode

--loglevel level set the log4j level for this

command

--workers turn on worker mode

SUBCOMMAND is one of:

Admin Commands:

cacheadmin configure the HDFS cache

crypto configure HDFS encryption zones

debug run a Debug Admin to execute HDFS debug commands

dfsadmin run a DFS admin client

dfsrouteradmin manage Router-based federation

ec run a HDFS ErasureCoding CLI

fsck run a DFS filesystem checking utility

haadmin run a DFS HA admin client

jmxget get JMX exported values from NameNode or

DataNode.

oev apply the offline edits viewer to an edits file

oiv apply the offline fsimage viewer to an fsimage

oiv\_legacy apply the offline fsimage viewer to a legacy

fsimage

storagepolicies list/get/set/satisfyStoragePolicy block storage

policies

Client Commands:

classpath prints the class path needed to get the hadoop

jar and the required libraries

dfs run a filesystem command on the file system

envvars display computed Hadoop environment variables

fetchdt fetch a delegation token from the NameNode

getconf get config values from configuration

groups get the groups which users belong to

lsSnapshottableDir list all snapshottable dirs owned by the current

user

snapshotDiff diff two snapshots of a directory or diff the

current directory contents with a snapshot

version print the version

Daemon Commands:

balancer run a cluster balancing utility

datanode run a DFS datanode

dfsrouter run the DFS router

diskbalancer Distributes data evenly among disks on a given

node

httpfs run HttpFS server, the HDFS HTTP Gateway

journalnode run the DFS journalnode

mover run a utility to move block replicas across

storage types

namenode run the DFS namenode

nfs3 run an NFS version 3 gateway

portmap run a portmap service

secondarynamenode run the DFS secondary namenode

sps run external storagepolicysatisfier

zkfc run the ZK Failover Controller daemon

SUBCOMMAND may print help when invoked w/o parameters or with -h.

root@26c5e0e439bc:/# hdfs dfs -ls /user/lekha

ls: `/user/lekha': No such file or directory

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 2 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:15 /user/clekha/input.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -get /user/clekha/myfile.txt

root@26c5e0e439bc:/# ls

bin dev input.txt media myfile.txt root srv usr

boot etc lib metastore\_db opt run sys var

derby.log home lib64 mnt proc sbin tmp

root@26c5e0e439bc:/# -ls

bash: -ls: command not found

root@26c5e0e439bc:/# hdfs dfs -ls /uer/clekha

ls: `/uer/clekha': No such file or directory

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 2 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:15 /user/clekha/input.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -touchz /user/clekha/file1.txt

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 3 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:23 /user/clekha/file1.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:15 /user/clekha/input.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -cp /user/clekha/file1.txt /user/clekha/file2.txt

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 4 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:23 /user/clekha/file1.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:24 /user/clekha/file2.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:15 /user/clekha/input.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -mv /user/clekha/file1.txt /user/clekha/file3.txt

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 4 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:24 /user/clekha/file2.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:23 /user/clekha/file3.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:15 /user/clekha/input.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -touchz /user/clekha/fileremove.txt

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 5 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:24 /user/clekha/file2.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:23 /user/clekha/file3.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:28 /user/clekha/fileremove.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:15 /user/clekha/input.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -rm /user/clekha/fileremove.txt

Deleted /user/clekha/fileremove.txt

root@26c5e0e439bc:/# hdfs dfs -ls /user/clekha

Found 4 items

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:24 /user/clekha/file2.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:23 /user/clekha/file3.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:15 /user/clekha/input.txt

-rw-r--r-- 1 root supergroup 0 2022-03-28 14:10 /user/clekha/myfile.txt

root@26c5e0e439bc:/# hdfs dfs -touchz /user/clekha/activityfile.txt

root@26c5e0e439bc:/# vim activityfile.txt

root@26c5e0e439bc:/# vim activityfile.txt

root@26c5e0e439bc:/# vim activityfile.txt

root@26c5e0e439bc:/# hdfs dfs -touchz /user/clekha/csvFile.csv

root@26c5e0e439bc:/# vim csvFile.csv

root@26c5e0e439bc:/# vim csvFile.csv

root@26c5e0e439bc:/# hdfs dfs -mkdir /user/root/textData

root@26c5e0e439bc:/# hdfs dfs -put./csvFile.csv/user/root/textData

-put./csvFile.csv/user/root/textData: Unknown command

Usage: hadoop fs [generic options]

[-appendToFile <localsrc> ... <dst>]

[-cat [-ignoreCrc] <src> ...]

[-checksum [-v] <src> ...]

[-chgrp [-R] GROUP PATH...]

[-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]

[-chown [-R] [OWNER][:[GROUP]] PATH...]

[-concat <target path> <src path> <src path> ...]

[-copyFromLocal [-f] [-p] [-l] [-d] [-t <thread count>] <localsrc> ... <dst>]

[-copyToLocal [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]

[-count [-q] [-h] [-v] [-t [<storage type>]] [-u] [-x] [-e] [-s] <path> ...]

[-cp [-f] [-p | -p[topax]] [-d] <src> ... <dst>]

[-createSnapshot <snapshotDir> [<snapshotName>]]

[-deleteSnapshot <snapshotDir> <snapshotName>]

[-df [-h] [<path> ...]]

[-du [-s] [-h] [-v] [-x] <path> ...]

[-expunge [-immediate] [-fs <path>]]

[-find <path> ... <expression> ...]

[-get [-f] [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]

[-getfacl [-R] <path>]

[-getfattr [-R] {-n name | -d} [-e en] <path>]

[-getmerge [-nl] [-skip-empty-file] <src> <localdst>]

[-head <file>]

[-help [cmd ...]]

[-ls [-C] [-d] [-h] [-q] [-R] [-t] [-S] [-r] [-u] [-e] [<path> ...]]

[-mkdir [-p] <path> ...]

[-moveFromLocal [-f] [-p] [-l] [-d] <localsrc> ... <dst>]

[-moveToLocal <src> <localdst>]

[-mv <src> ... <dst>]

[-put [-f] [-p] [-l] [-d] [-t <thread count>] <localsrc> ... <dst>]

[-renameSnapshot <snapshotDir> <oldName> <newName>]

[-rm [-f] [-r|-R] [-skipTrash] [-safely] <src> ...]

[-rmdir [--ignore-fail-on-non-empty] <dir> ...]

[-setfacl [-R] [{-b|-k} {-m|-x <acl\_spec>} <path>]|[--set <acl\_spec> <path>]]

[-setfattr {-n name [-v value] | -x name} <path>]

[-setrep [-R] [-w] <rep> <path> ...]

[-stat [format] <path> ...]

[-tail [-f] [-s <sleep interval>] <file>]

[-test -[defswrz] <path>]

[-text [-ignoreCrc] <src> ...]

[-touch [-a] [-m] [-t TIMESTAMP (yyyyMMdd:HHmmss) ] [-c] <path> ...]

[-touchz <path> ...]

[-truncate [-w] <length> <path> ...]

[-usage [cmd ...]]

Generic options supported are:

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-libjars <jar1,...> specify a comma-separated list of jar files to be included in the classpath

-archives <archive1,...> specify a comma-separated list of archives to be unarchived on the compute machines

The general command line syntax is:

command [genericOptions] [commandOptions]

root@26c5e0e439bc:/# hdfs dfs -put ./csvFile.csv/user/root/textData

put: `./csvFile.csv/user/root/textData': No such file or directory

root@26c5e0e439bc:/# hdfs dfs -put ./csvFile.csv /user/root/textData

root@26c5e0e439bc:/# hdfs dfs -put ./activityfile.txt /user/root/textData

root@26c5e0e439bc:/# hdfs dfs -stat /user/root/textData/activityfile.txt2022-03-28 14:38:04

root@26c5e0e439bc:/# hdfs dfs -stat /user/root/textData/csvFile.csv

2022-03-28 14:37:22

root@26c5e0e439bc:/# hdfs dfs -stat "type:%F permissions:%a %u:%g size:%b name:%n" /user/root/textData/csvFile.csv

type:regular file permissions:644 root:supergroup size:527 name:csvFile.csv

root@26c5e0e439bc:/# hdfs dfs -stat "type:%F permissions:%a %u:%g size:%b name:%n" /user/root/textData/activityfile.txt

type:regular file permissions:644 root:supergroup size:157 name:activityfile.txt

root@26c5e0e439bc:/#