
hpipe Documentation

3.0.0

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1		3
1.1		3
1.2		3
1.3		5
2		9

Hpipe

- HadoopHive
- HDFSSqlite
- GraphvizGraphviz
-

1.1

1.2

1.2.1 hpipe

:

Execute a hpipe workflow

Usage:

hpipe [options]

Options:

-h, --help	Print this message
-v, --verbose	Use verbose output
-p, --path	Working path
-f, --flow	Entry filename of workflow
--max-retry	Max retry times of failed jobs, default: 3
--start	Start from a specific job
--end	End at a specific job
--status-saver	Method to track job status
	default: sqlite
	available: hdfs, sqlite
--namenode	Address of Hadoop NameNode, default: 127.0.0.1:8020
--sqlite	File path for sqlite database
--hadoop	Enable Hadoop streaming job
--jar	Path of Hadoop streaming jar file
--odps	Enable ODPS job
--odps-endpoint	Address of ODPS endpoing
--odps-project	ODPS project name
--odps-access-id	ODPS access id
--odps-access-key	ODPS access key
--hive	Enable Hive job
--bizdate	Set variable \$bizdate in YYYYMMDD format

<code>--less-log</code>	Less log output
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- `-p --path`
- `-f --flow`
- `--max-retry`
- `--start`
- `--end`
- `--bizdate $bizdate $gmtdate`

Hpipe2

1. SQLite
2. HDFS

`hpipe--status-saver`

`SQLite--sqlite /var/run/hpipe/status.db`

`HDFSHDFSNameode--namenode master:8020`

Hpipe

Hadoop Streaming

- `--hadoop Hadoop`
- `--jar Hadoop streamingjar`

Hive

- `--hive Hive`

Aliyun ODPS

- `--odps ODPS`
- `--odps-endpoint ODPS endpoint`
- `--odps-project ODPS project`
- `--odps-access-id ODPS access id`
- `--odps-access-key ODPS access key`

1.3

1.3.1

:

```
digraph wordcount {
    dummy -> step1
    dummy -> step2
    step1 [
        name="step1"
        type="hadoop"
        vars="$date=${date:YYYYMMDD}"
        input="/tmp/hpipe/examples/wordcount/input/part-*"
        output="/tmp/hpipe/examples/wordcount/output/${bizdate}/step1"
        mapper="cat"
        reducer="wc -l"
        mapred.reduce.tasks=1
        test.custom.val="today is ${date}, yestoday is ${bizdate}, and yestoday is ${bizdate}"
    ]
    step2 [
        name="step2"
        type="hadoop"
        vars="$date=${bizdate}"
        input="/tmp/hpipe/examples/wordcount/input/part-*"
        output="/tmp/hpipe/examples/wordcount/output/${bizdate}/step2"
        mapper="cat"
        reducer="wc -l"
    ]
    dummy [
        name="dummy"
        type="dummy"
        vars="$bizdate=${date:YYYYMMDD}+2*$day"
    ]
}
```

1.3.2

name

type

output

output="/tmp/example/\${bizdate}/"

vars

-
- \$
- - int
 - \$name='test'
 - \$\$date=\$bizdate
 - \$date=\${date:YYYYMMDD}

output script

- output="/tmp/\${bizdate}"
- script="test.sh \${bizdate}"

nonstrict

nonstrict="true"

- hadoop
- hive
- script

hadoop

hive

hql HiveQL

script HiveQL

option Hive `hive.exec.dynamic.partition.mode=nonstrict`

script

interpreter perl bash \$PATH

script Script

gmtdate

bizdate hpipe --bizdate gmtdate

job_report

1.3.3

“->“

nonstrict

examples/email

```
digraph email {
    dummy -> script
    script -> mailitsh [nonstrict="true"]
    mailitsh -> mailitpl
    ()
}
```


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- `genindex`
 - `modindex`
 - `search`