

NIFI Docker

`docker pull apache/nifi`

Correr el docker:

`docker run --name nifi -p 8443:8443 -d apache/nifi:latest`

`docker run --name nifi -p 8443:8443 --dns=8.8.8.8 -d apache/nifi:latest`

UI WEB

`https://localhost:8443/nifi`

Usr y pass

#buscar el usr y la pass en los logs

`docker logs nifi`

`docker logs nifi | grep Generated`

Generated Username [5daf9eec-62d4-42cd-ad9c-acac425ee7f9]

Generated Password [2nYLM8aFtpszu+Ft0txirYOpXNGbrvXx]

Cambiar pass

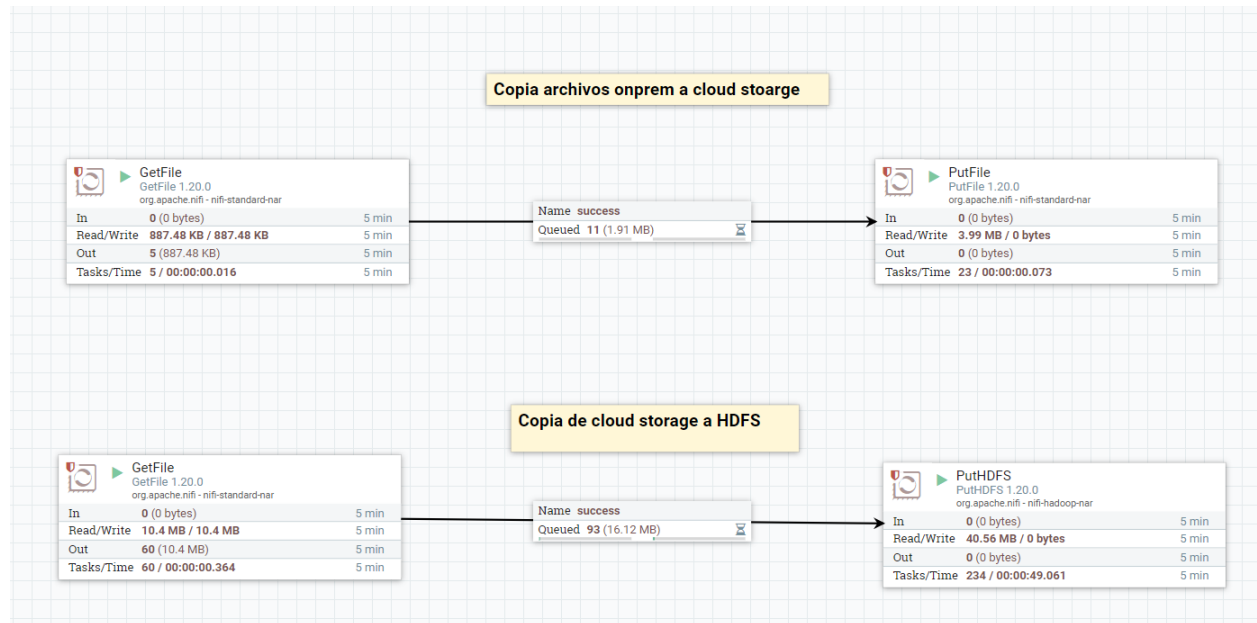
`./bin/nifi.sh set-single-user-credentials <username> <password>`

`/opt/nifi/nifi-current/bin nifi.sh set-single-user-credentials nifi <password>`

Agregar processor:

Get file → Putfile

Get file → PutHDFS















Configuración GetFile

SETTINGS	SCHEDULING	PROPERTIES	RELATIONSHIPS	COMMENTS
Required field 🔍 +				
Property		Value		
Input Directory	?	/home/nifi/ingest		
File Filter	?	starwars.csv		
Path Filter	?	No value set		
Batch Size	?	10		
Keep Source File	?	true		
Recurse Subdirectories	?	true		
Polling Interval	?	0 sec		
Ignore Hidden Files	?	true		
Minimum File Age	?	0 sec		
Maximum File Age	?	No value set		
Minimum File Size	?	0 B		
Maximum File Size	?	No value set		

SETTINGS	SCHEDULING	PROPERTIES	RELATIONSHIPS	COMMENTS
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Required field

Property	Value	
Input Directory	 /home/nifi/bucket	
File Filter	 starwars.csv	
Path Filter	 No value set	
Batch Size	 10	
Keep Source File	 true	
Recurse Subdirectories	 true	
Polling Interval	 0 sec	
Ignore Hidden Files	 true	
Minimum File Age	 0 sec	
Maximum File Age	 No value set	
Minimum File Size	 0 B	
Maximum File Size	 No value set	

Si queremos solo procesar CSV:

`[^\\.]\\.\\.\\.csv`

En el shell de nifi:









1. Crear una carpeta llamada ingest en "/home/nifi"
2. Bajar starwars.csv con wget
<https://github.com/fpineyro/homework-0/blob/master/starwars.csv>

Configuración PutFile

SETTINGS	SCHEDULING	PROPERTIES	RELATIONSHIPS	COMMENTS
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Required field



Property	Value	
Directory	 /home/nifi/bucket	
Conflict Resolution Strategy	 replace	
Create Missing Directories	 true	
Maximum File Count	 No value set	
Last Modified Time	 No value set	
Permissions	 No value set	
Owner	 No value set	
Group	 No value set	

En el shell de nifi:

1. Crear una carpeta llamada bucket en "/home/nifi"

Configuración PutHDFS

Copiar los archivos (o el contenido) de core-site.xml y hdfs-site.xml a una carpeta determinada, las copie en /home/nifi/hadoop.

Luego en Hadoop Configuration Resources configurar lo siguiente:
/home/nifi/hadoop/core-site.xml, /home/nifi/hadoop/hdfs-site.xml

Directory: donde queremos que se copie la info

Darle permisos a la carpeta /nifi con el siguiente comando desde el shell de hadoop:

Hdfs dfs -chmod 777 /nifi

Configure Processor | PutHDFS 1.20.0

Stopped

SETTINGS

SCHEDULING

PROPERTIES

RELATIONSHIPS

COMMENTS

Required field

Property	Value
Hadoop Configuration Resources	/home/nifi/hadoop/core-site.xml, /home/nifi/hadoop...
Kerberos Credentials Service	No value set
Kerberos User Service	No value set
Kerberos Principal	No value set
Kerberos Keytab	No value set
Kerberos Password	No value set
Kerberos Rlogin Period	4 hours
Additional Classpath Resources	No value set
Directory	/nifi
Conflict Resolution Strategy	replace
Writing Strategy	Write and rename
Block Size	No value set

Fuente:

<https://github.com/fpineyro/homework-0/blob/master/starwars.csv>

Core-site.xml de ejemplo

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
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  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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  limitations under the License. See accompanying LICENSE file.
-->

<!-- Put site-specific property overrides in this file. -->

<configuration>
  <property>
    <name>fs.defaultFS</name>
    <value>hdfs://172.17.0.2:9000</value>
  </property>
</configuration>
```

Hdfs-site.xml de ejemplo

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="configuration.xsl"?>
<!--
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  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License. See accompanying LICENSE file.
-->

<!-- Put site-specific property overrides in this file. -->

<configuration>

  <property>
    <name>dfs.replication</name>
    <value>1</value>
  </property>

  <property>
    <name>dfs.name.dir</name>
    <value>file:///home/hadoop/hadoopdata/hdfs/namenode</value>
  </property>

  <property>
    <name>dfs.data.dir</name>
    <value>file:///home/hadoop/hadoopdata/hdfs/datanode</value>
  </property>
</configuration>
```