

## **BIGDATA Analytics**

### TP N°3 – APACHE HIVE PARTIE N°1 INSTALLATION

### **Objectifs**:

- 1. Installation Apache Hadoop
- 2. Démarrages du cluster Hadoop
- 3. Création des dossiers Hive
- 4. Configuration D'apache Derby Database
- 5. Démarrage du moteur Apache Derby Database
- 6. Configuration D'apache Hive
- 7. Démarrage D'apache Hive

### **Outils :**

- Database Derby: https://db.apache.org/derby/releases/release-10 14 2 0.cgi
- Apache Hive: https://archive.apache.org/dist/hive/hive-2.1.0/

Etape N°1: Démarrage du Cluster Hadoop

#### Start-dfs & start-yarn

as Administrateur : Invite de commandes	—		$\times$
C:\WINDOWS\system32>start-dfs			^
C:\WINDOWS\system32>start-yarn starting yarn daemons			
C:\WINDOWS\system32>			
🔤 Apache Hadoop Distribution - yarn nodemanager	_		×
janv. 04, 2022 11:24:12 PM com.sun.jersey.guice.spi.container.GuiceComponentProviderFactory register			^
ja 🔤 Sélection Administrateur : Apache Hadoop Distribution	_		$\times$
at org.apache.hadoop.hdfs.server.namenode.NameNode. <init>(NameNode.java:812)</init>			~
🔤 Apache Hadoop Distribution - hadoop datanode	_		$\times$
policy is RetryUpToMaximumCountWithFixedSleep(maxRetries=10, sleepTime=1000 MILLISECONDS)	D time (		^
IP 🔤 Apache Hadoop Distribution - yarn resourcemanager	_		$\times$
<sup>12</sup> INFOS: Initiating Jersey application, version 'Jersey: 1.9 09/02/2011 11:17 AM' <sup>17</sup> Jianv. 04, 2022 11:24:12 PM com.sun.jersey.guice.spi.container.GuiceComponentProviderFactory getCompone <sup>17</sup> ZINFOS: Binding org.apache.hadoop.yarn.server.resourcemanager.webapp.JAXBContextResolver to GuiceManage <sup>17</sup> with the scope "Singleton" <sup>17</sup> JinFOS: Binding org.apache.hadoop.yarn.server.guice.spi.container.GuiceComponentProviderFactory getCompone <sup>12</sup> INFOS: Binding org.apache.hadoop.yarn.webapp.GenericExceptionHandler to GuiceManageComponentProvider <sup>12</sup> INFOS: Binding org.apache.hadoop.yarn.webapp.GenericExceptionHandler to GuiceManageComponentProvider	ntProvi dCompor ntProvi with th	ider nentProv ider ne scope	vider e "Si
<sup>27</sup> ngleton <sup>22</sup> janv. 04, 2022 11:24:13 PM com.sun.jersey.guice.spi.container.GuiceComponentProviderFactory getCompone <sup>27</sup> INFOS: Binding org.apache.hadoop.yarn.server.resourcemanager.webapp.RMWebServices to GuiceManagedCompo <sup>22</sup> the scope "Singleton"	ntProvi nentPro	ider ovider N	with
<sup>4P</sup> 22/01/04 23:24:13 INFO mortbay.log: Started HttpServer2\$SelectChannelConnectorWithSafeStartup@0.0.0.0: <sup>22</sup> 22/01/04 23:24:13 INFO webapp.WebApps: Web app cluster started at 8088 <sup>P</sup> 22/01/04 23:24:13 INFO ipc.CallQueueManager: Using callQueue class java.util.concurrent.LinkedBlocking - <sup>2</sup> 22/01/04 23:24:13 INFO ipc.Server: Starting Socket Reader #1 for port 8033	8088 Queue		
P22/01/04 23:24:13 INFO pb.RpcServerFactoryPBImpl: Adding protocol org.apache.hadoop.yarn.server.api.Re <sup>22</sup> istrationProtocolPB to the server P22/01/04 23:24:13 INFO ipc.Server: IPC Server Responder: starting <sup>42</sup> 22/01/04 23:24:13 INFO ipc.Server: IPC Server listener on 8033: starting	source	lanager/	Admin



Etape N°2 : Création des dossiers Hive

C:\WINDOWS\system32>hadoop fs	-mkdir -p /user/hive
C:\WINDOWS\system32>hadoop fs	-chmod 777 /user/hive
C:\WINDOWS\system32>hadoop fs	-mkdir -p /user/hive/warehouse
C:\WINDOWS\system32>hadoop fs	-chmod 777 /user/hive/warehouse
C:\WINDOWS\system32>hadoop fs	-mkdir -p /tmp
C:\WINDOWS\system32>hadoop fs	-chmod 777 /tmp
C:\WINDOWS\system32>hadoop fs	-mkdir -p /tmp/hive
C:\WINDOWS\system32>hadoop fs	-chmod 777 /tmp/hive
C:\WINDOWS\system32>	

Etape N°3 : Configuration D'apache Derby Database

- Copier le dossier derby dans le dossier C:\hadoop\derby
- Modifier les variables d'environnements

Variable	Valeur	
DERBY_HOME	C:\hadoop\derby	
	Cithadaan) hin	
Modifier la variable d'	environnement	
C:\Program Files (x8	36)\Common Files\Oracle\Java\javapath	Nouveau
C:\Users\FATNA\Ap	pData\Local\Programs\Python\Python36	5\
C:\Users\FATNA\De	sktop\openssl-1.0.2q-x64_86-win64	Modifier
C:\Program Files\Pu	TTY	
C:\Program Files (x8	36)\Bitvise SSH Client	Parcourir
%SystemRoot%\sys	tem32	
%SystemRoot%		Supprimer
%SystemRoot%\Sys	tem32\Wbem	
%SYSTEMROOT%\S	ystem32\WindowsPowerShell\v1.0\	
%SYSTEMROOT%\S	ystem32\OpenSSH\	Déplacer vers le b
C:\Java		sepideer ters ie ii
C:\hadoop\bin		Déplacer vers le h
C:\hadoop\sbin		Deplacer versite i
C:\Program Files (x8	36)\Druide\Antidote 9\Application\Bin64	t/
C:\Program Files (x8	36)\Druide\Antidote 9\Application\Bin32	Modifier le texte
C:\hadoop\derby\b	in	Woullier le texte



## Etape N°4 : Démarrage du moteur Apache Derby Database



### Etape N°5 : Configuration D'apache Hive

- Copier le dossier Hive dans C:\hadoop\Hive
- Configurer les variables d'environnement

Variable	Valeur		
HADOOP_USER_CLA	SSPAT true		
HIVE_BIN_PATH	C:\hadoop\hive\bin		
HIVE_HOME	C:\hadoop\hive		
HIVE_LIB	C:\hadoop\hive\lib		
Modifier la variable	d'environnement	×	
C) Program Files (	(v96)) Common Filer) Oracle) Java) javanath		
C:\Users\FATNA\A	AppData\Local\Programs\Python\Python36\	Nouveau	ime
C:\Users\FATNA\E C:\Program Files\	Desktop\openssl-1.0.2q-x64_86-win64 PuTTY\	Modifier	inter
C:\Program Files (	(x86)\Bitvise SSH Client	Parcourir	
%SystemRoot%\s	ystem32		
%SystemRoot%		Supprimer	
%SystemRoot%\S	System32\WindowsDowerShell\v1.0		
%SYSTEMPOOT%	System 32 Open SELIN	_	
%STSTEIVIROUT%	(System32)(OpenSSH)	Déplacer vers le hau	
C:\badoon\bin			
C:\hadoop\shin		Déplacer vers le bas	:
C:\Program Files (	(x86)\Druide\Antidote 9\Application\Bin64\		
C:\Program Files (	(x86)\Druide\Antidote 9\Application\Bin32\		
C:\hadoop\derby	\bin	Modifier le texte	ime
C:\hadoop\hive\b	bin		
			ler

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Configurer les deux fichiers de démarrage : hive-site.xml & hive-env.cmd

#### Fichier hive-site.xml

```
<configuration>
<property>
 <name>javax.jdo.option.ConnectionURL</name>
 <value>jdbc:derby://localhost:1527/hive.metastore_db;create=true </value>
 <description>JDBC connect string for a JDBC metastore</description>
</property>
<property>
  <name>hive.metastore.warehouse.dir</name>
 <value>/user/hive/warehouse</value>
 <description>location of default database for the warehouse</description>
</property>
<property>
 <name>javax.jdo.option.ConnectionDriverName</name>
 <value>org.apache.derby.jdbc.ClientDriver</value>
 <description>JDBC Driver classe name for the datastore which contains
metadata</description>
</property>
<property>
 <name>datanucleus.autoCreateTables</name>
 <value>true</value>
</property>
</configuration>
```

#### Fichier hive-env.cmd

set HADOOP\_HOME=C:\HADOOP

```
- Ajouter des fichiers log4j & SLF4J dans c:\hadoop\hive\lib
```

LOG4J

```
Le logging consiste à ajouter des traitements dans les applications pour permettre
l'émission et le stockage de messages suite à des événements.Par exemple conserver une trace
des exceptions qui sont levées dans l'application et des différents événements anormaux ou normaux
liés à l'exécution de l'application.
```

SLF4J

(Simple Logging Facade For Java) est une API d'abstraction de frameworks des logs.



- log4j-1.2.17
   slf4j-api-1.7.21.jar
   slf4j-log4j12-1.7.21.jar
   log4j-slf4j-impl-2.7
- Ajouter les fichiers .jar du dossier derby au dossier c:\hadoop\hive\lib

PC	; ;	>	Windows (C:)	>	hadoop	>	derby	>	lib
	N	or	n		^				
	lat a	2	derby						
		7	derby.war						
	lat a	2	derbyclient						
	let 💊	2	derbyLocale_c	S					
	(at a	2	derbyLocale_c	le_	DE				
	(at a	2	derbyLocale_e	es					
	(at a	2	derbyLocale_f	r					
	( International State	2	derbyLocale_h	nu					
	(International States)	2	derbyLocale_i	t					
	( tu	2	derbyLocale_j	a_J	IP				
	( tu	2	derbyLocale_k	0_	KR				
	( to	2	derbyLocale_p	bl					
	( International State	2	derbyLocale_p	ot_	BR				
	lat a	2	derbyLocale_r	u					
	lat a	2	derbyLocale_z	h_	CN				
	lat a	2	derbyLocale_z	h_	TW	1			
	and a	2	derbynet						
	lat a	2	derbyoptional	to	ols				
	(Internet	2	derbyrun						
	lat a	2	derbytools						

\_



# Etape N°6 : Démarrage D'apache Hive

- Démarrer Apache hive par la commande hive,
- Créer une base de données test dans apache hive

:\WINDOWS\system32>hive RROR StatusLogger No log4j2 configuration file found. Using default configuration: logging only errors to the console. Innecting to jdbc:hive2:// SLF4J: Class path contains multiple SLF4J bindings. SLF4J: Found binding in [jar:file:/C:/hadoop/hive/lib/log4j-slf4j-impl-2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/C:/hadoop/hive/lib/log4j-slf4j-impl-2.7.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/C:/hadoop/hive/lib/slf4j-log4j12-1.7.21.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/C:/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/C:/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLogg rBinder.class] SLF4J: Found binding in [jar:file:/C:/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLogg rBinder.class] SLF4J: Found binding in [jar:file:/C:/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLogg rBinder.class] SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory] Connected to: Apache Hive (version 2.1.0) Driver: Hive JDBC (version 2.1.0) Fransaction isolation: TRANSACTION_REPEATABLE_READ Beeline version 2.1.0 by Apache Hive nive> set hive.cli.print.current.db=true; No rows affected (0,01 seconds) nive (default)> create database test; NK No rows affected (1,159 seconds) nive (default)> use test; NK No rows affected (0,038 seconds) nive (default)> use test; NK No rows affected (0,038 seconds) nive (test)>	
<pre>RROR StatusLogger No log4j2 configuration file found. Using default configuration: logging only errors to the console. Connecting to jdbc:hive2:// SLF4J: Class path contains multiple SLF4J bindings. SLF4J: Found binding in [jar:file:/C:/hadoop/hive/lib/log4j-slf4j-impl-2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class s] SLF4J: Found binding in [jar:file:/C:/hadoop/hive/lib/log4j-slf4j-impl-2.7.jar!/org/slf4j/impl/StaticLoggerBinder.class s] SLF4J: Found binding in [jar:file:/C:/hadoop/hive/lib/slf4j-log4j12-1.7.21.jar!/org/slf4j/impl/StaticLoggerBinder.class SLF4J: Found binding in [jar:file:/C:/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/C:/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation. SLF4J: Actual binding is of type [org.apache.logging.slf4j.log4jLoggerFactory] Connected to: Apache Hive (version 2.1.0) Driver: Hive JDBC (version 2.1.0) Driver: Hive JDBC (version 2.1.0) Transaction isolation: TRANSACTION_REPEATABLE_READ Beeline version 2.1.0 by Apache Hive tive&gt; set hive.cli.print.current.db=true; No rows affected (0,01 seconds) tive (default)&gt; create database test; NK No rows affected (1,159 seconds) tive (default)&gt; use test; DK No rows affected (0,038 seconds) hive (default)&gt; use test; DK No rows affected (0,038 seconds) hive (test)&gt;</pre>	::\WINDOWS\system32>hive
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Connected to: Apache Hive (version 2.1.0) Driver: Hive JDBC (version 2.1.0) Transaction isolation: TRANSACTION_REPEATABLE_READ Beeline version 2.1.0 by Apache Hive nive> set hive.cli.print.current.db=true; No rows affected (0,01 seconds) nive (default)> create database test; W No rows affected (1,159 seconds) nive (default)> use test; K No rows affected (0,038 seconds) nive (test)>	LF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Driver: Hive JDBC (version 2.1.0) Transaction isolation: TRANSACTION_REPEATABLE_READ Beeline version 2.1.0 by Apache Hive nive> set hive.cli.print.current.db=true; No rows affected (0,01 seconds) nive (default)> create database test; NK No rows affected (1,159 seconds) nive (default)> use test; NK No rows affected (0,038 seconds) nive (test)>	Connected to: Apache Hive (version 2.1.0)
<pre>Fransaction isolation: TRANSACTION_REPEATABLE_READ Beeline version 2.1.0 by Apache Hive nive&gt; set hive.cli.print.current.db=true; No rows affected (0,01 seconds) nive (default)&gt; create database test; NK No rows affected (1,159 seconds) nive (default)&gt; use test; NK No rows affected (0,038 seconds) nive (test)&gt;</pre>	Driver: Hive JDBC (version 2.1.0)
Beeline version 2.1.0 by Apache Hive hive> set hive.cli.print.current.db=true; No rows affected (0,01 seconds) hive (default)> create database test; NK No rows affected (1,159 seconds) hive (default)> use test; NK No rows affected (0,038 seconds) hive (test)>	Fransaction isolation: TRANSACTION_REPEATABLE_READ
hive> set hive.cli.print.current.db=true; No rows affected (0,01 seconds) hive (default)> create database test; NK No rows affected (1,159 seconds) hive (default)> use test; NK No rows affected (0,038 seconds) hive (test)>	Beeline version 2.1.0 by Apache Hive
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No rows affected (1,159 seconds) hive (default)> use test; )K No rows affected (0,038 seconds) hive (test)>	hive (default)> create database test; )K
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DK No rows affected (0,038 seconds) nive (test)>	nive (default)> use test;
No rows affected (0,038 seconds) nive (test)>	
nive (test)>	lo rows affected (0,038 seconds)
	nive (test)>

## - Visualiser la base de données dans l'interface de ressource manager de hadoop

Hadoop Over	rview Datanodes	s Snapshot	Startup Progress	Utilities –			
Browse	Directo	ry					
/user/hive/warehous	se						Go!
Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
drwxrwxrwx	FATNA	supergroup	0 B	05/01/2022, 01:37:28	0	0 B	test.db
ladaan 0016							

Hadoop, 2016.



- Créer une autre base de données « crmf »



hive (test)> use crmf;\_\_\_\_\_\_\_ OK No rows affected (0,054 seconds) hive (crmf)> describe\_\_database crmf; OK crmf hdfs://localhost:9000/user/hive/warehouse/crmf.db FATNA USER 1 row selected (0,633 seconds) hive (crmf)>

nive (crmf)> describe database extended crmf; OK crmf hdfs://localhost:9000/user/hive/warehouse/crmf.db FATNA USER {date=09/12/2019, creator=elmendili} 1 row selected (0,053 seconds) hive (crmf)>

- Visualiser la base de données dans Hadoop

Hadoop Overview Datanodes Snapshot Startup Progress Utilities –

# **Browse Directory**

/user/hive/warehous	e						Go!
Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
drwxrwxrwx	FATNA	supergroup	0 B	05/01/2022, 19:43:25	0	0 B	crmf.db
drwxrwxrwx	FATNA	supergroup	0 B	05/01/2022, 01:37:28	0	0 B	test.db