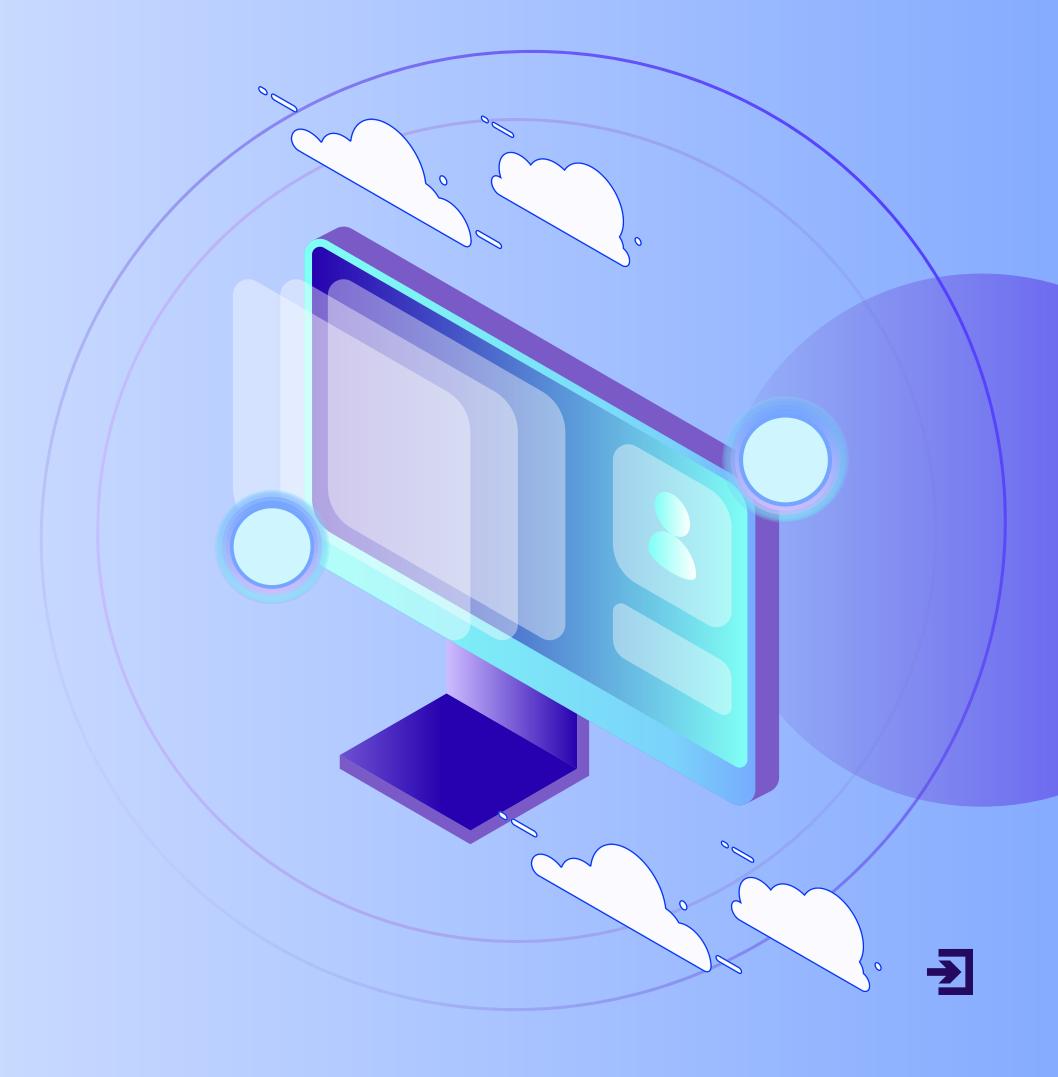
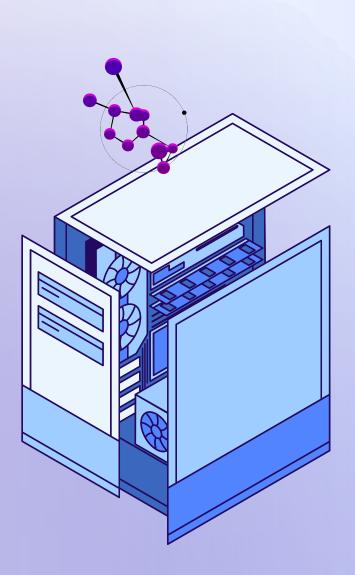


HADOOP IMAGE I

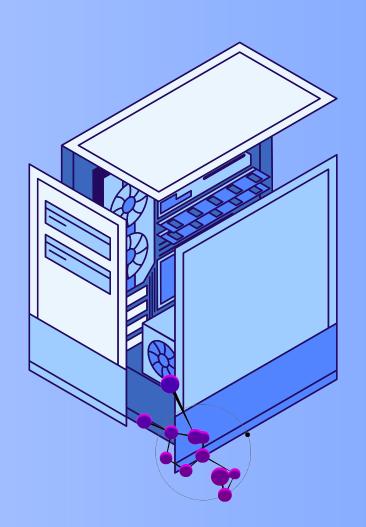


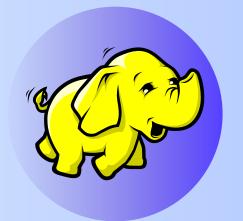


DEFINITION JAVA

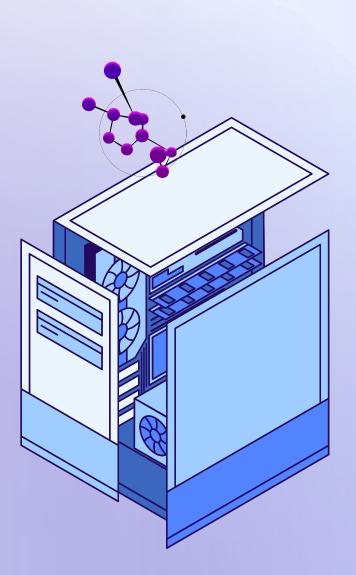


- Orienté objet, simple, portable.
- Écrit une fois, partout (JVM).
- Web, mobile, entreprise.
- Mémoire auto-gérée.
- Sécurisé et fiable.
- Multiplateforme.
- Écosystème riche (Spring, Hibernate)

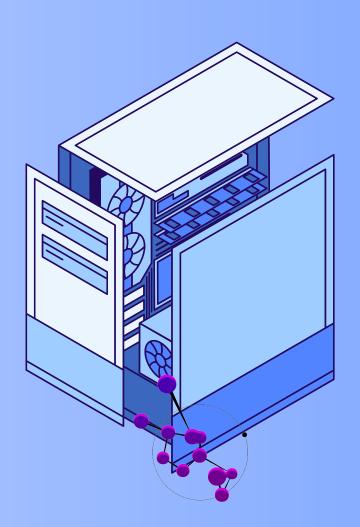




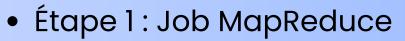
DEFINITION HADOOP



- Framework open-source pour Big Data.
- Stockage distribué (HDFS).
- Traitement parallèle (MapReduce).
- Scalable et résilient.
- Gestion de grandes quantités de données.
- Écosystème riche (Hive, Pig, HBase).
- Utilisé pour analyses massives.

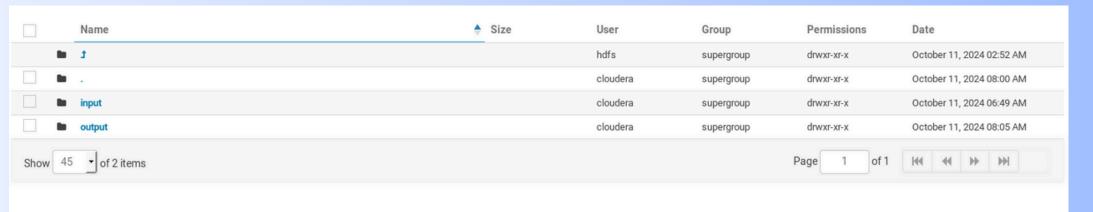


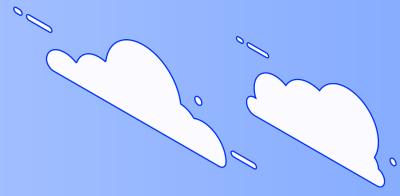
ETAPE PROJET



- Traite donnees.json (input) → produit processed.json (output).
- Étape 2 : Transfert des données
- Transfert de processed.json du répertoire output vers input.
- Étape 3 : Automatisation
- Script pour répéter le cycle de traitement et transfert.

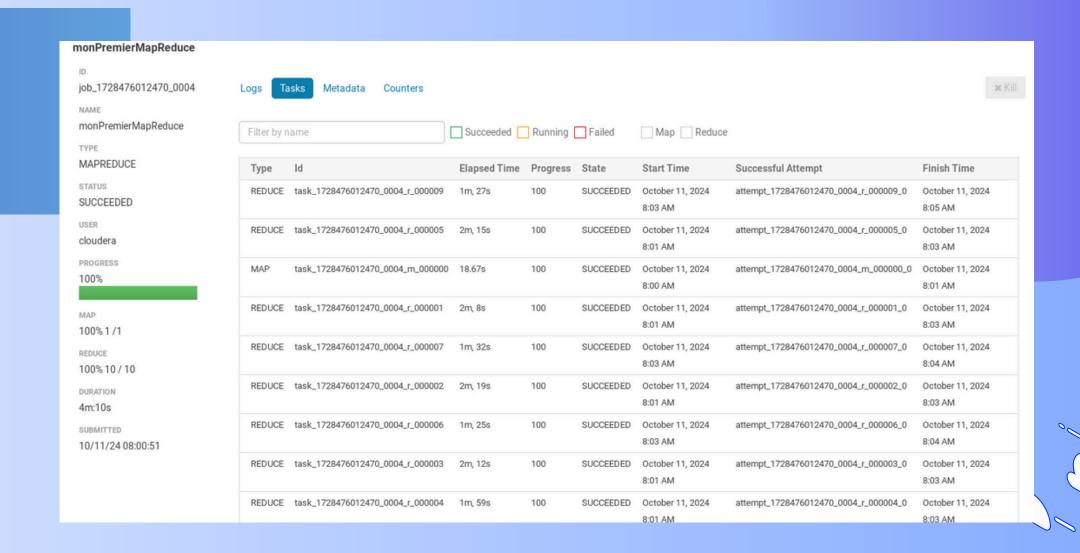






ETAPE

- Créer un nouveau projet
- Ajouter trois fichiers
- Créer un fichier pom.xml avec les plugins et la version Java 1.7
- Changer l'extension en .jar



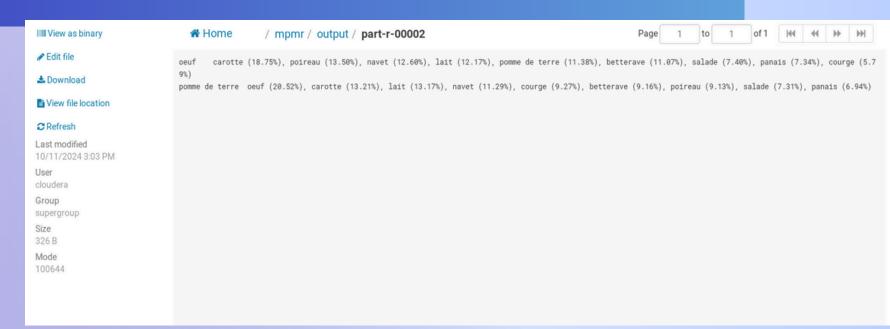


Id	Name	User	Туре	Status	Progress	Group	Started	Duration
application_1728476012470_0004	monPremierMapReduce	cloudera	MAPREDUCE	SUCCEEDED	100%	root.cloudera	October 11, 2024 8:00 AM	4m, 29s
application_1728476012470_0003	monPremierMapReduce	cloudera	MAPREDUCE	SUCCEEDED	100%	root.cloudera	October 11, 2024 7:33 AM	5m, 25s
application_1728476012470_0002	monPremierMapReduce	cloudera	MAPREDUCE	SUCCEEDED	100%	root.cloudera	October 11, 2024 6:51 AM	3m, 58s
application_1728476012470_0001	monPremierMapReduce	cloudera	MAPREDUCE	SUCCEEDED	100%	root.cloudera	October 11, 2024 6:41 AM	4m, 24s

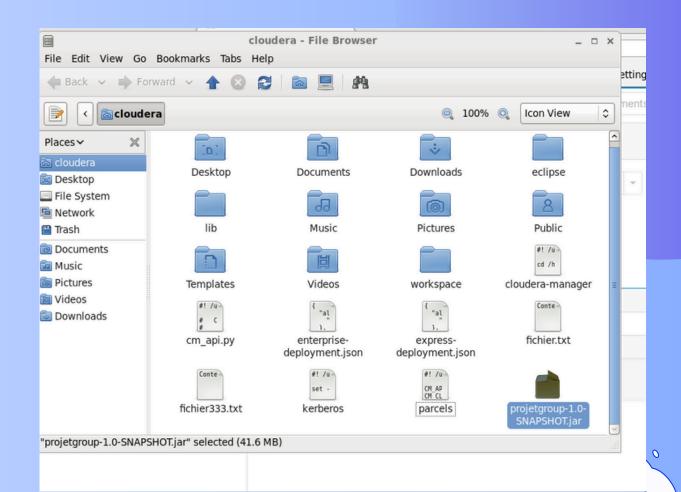
4 jobs

ETAPE

PROJET



- Ajouter le fichier sur HUE
- Exécuter la commande hdfs dfs -get /mpmr/ projetgroup-1.0-SNAPSHOT.jar ./
- Lancer le JAR avec hadoop jar projetgroup-1.0-SNAPSHOT.jar
- Le fichier output ne doit pas être créé



```
24/10/11 08:00:30 INFO mapreduce.JobSubmitter: number of splits:1
24/10/11 08:00:31 INFO mapreduce.JobSubmitter: Submitting tokens for job: job 1728476012470 0004
24/10/11 08:00:32 INFO impl.YarnClientImpl: Submitted application application 1728476012470 0004
24/10/11 08:00:32 INFO mapreduce.Job: The url to track the job: http://quickstart.cloudera:8088/prox
y/application 1728476012470 0004/
24/10/11 08:00:32 INFO mapreduce.Job: Running job: job 1728476012470 0004
24/10/11 08:00:54 INFO mapreduce.Job: Job job 1728476012470 0004 running in uber mode : false
24/10/11 08:00:54 INFO mapreduce.Job: map 0% reduce 0%
24/10/11 08:01:14 INFO mapreduce.Job: map 100% reduce 0%
^[S24/10/11 08:02:56 INFO mapreduce.Job: map 100% reduce 7%
24/10/11 08:03:05 INFO mapreduce.Job: map 100% reduce 10%
24/10/11 08:03:17 INFO mapreduce.Job: map 100% reduce 17%
24/10/11 08:03:18 INFO mapreduce.Job: map 100% reduce 24%
24/10/11 08:03:21 INFO mapreduce.Job: map 100% reduce 40%
24/10/11 08:03:23 INFO mapreduce.Job: map 100% reduce 41%
24/10/11 08:03:24 INFO mapreduce.Job: map 100% reduce 44%
24/10/11 08:03:25 INFO mapreduce.Job: map 100% reduce 51%
24/10/11 08:03:28 INFO mapreduce.Job: map 100% reduce 54%
24/10/11 08:03:30 INFO mapreduce.Job: map 100% reduce 57%
24/10/11 08:03:32 INFO mapreduce.Job: map 100% reduce 58%
24/10/11 08:03:38 INFO mapreduce.Job: map 100% reduce 60%
24/10/11 08:04:34 INFO mapreduce.Job: map 100% reduce 70%
24/10/11 08:04:43 INFO mapreduce.Job: map 100% reduce 77%
24/10/11 08:04:49 INFO mapreduce.Job: map 100% reduce 83%
24/10/11 08:04:50 INFO mapreduce.Job: map 100% reduce 87%
24/10/11 08:04:53 INFO mapreduce.Job: map 100% reduce 93%
24/10/11 08:04:56 INFO mapreduce.Job: map 100% reduce 95%
  '10/11 08:05:00 INFO mapreduce.Job: map 100% reduce 100%
 -, 10/11 08:05:03 INFO mapreduce.Job: Job job 1728476012470 0004 completed successfully
 4/10/11 08:05:04 INFO mapreduce.Job: Counters: 50
```

```
courge lait (15.36%), navet (14.21%), oeuf (13.54%), carotte (12.28%), pomme de terre (10.20%), poireau (10.03%), panais (8.51%), betterave (8.44%), salade (7.43%), poireau carotte (16.91%), lait (16.53%), navet (12.46%), betterave (10.92%), oeuf (10.54%), pomme de terre (10.03%), salade (9.51%), panais (8.20%), courge (4.91%)
```

