

EXP NO: 5

INSTALLATION OF HIVE

```
$wget https://archive.apache.org/dist/hive/hive-3.1.2/apache-hive-3.1.2-bin.tar.gz
```



```

kali@kali:~$ apt-get install sploit
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
sploit is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not installed.
Need to get 0 B of archives.
After this operation, 0 B of additional disk space will be used.
0 B of 0 B will be fetched, 0 B already cached.

```

Star xvzf apache-hive-3.1.2-bin.tar.gz

```

kali@kali:~$ curl -s https://api.github.com/repos/SecWiki/ctf-writeups
{"name": "ctf-writeups", "description": "ctf-writeups", "fork": false, "homepage": "https://github.com/SecWiki/ctf-writeups", "private": false, "owner": {"login": "SecWiki", "id": 1752680, "node_id": "MDQ6VXNlcjE3NTI2ODU=", "avatar_url": "https://avatars.githubusercontent.com/u/1752680?v=4", "gravatar_id": "", "url": "https://api.github.com/users/SecWiki", "html_url": "https://github.com/SecWiki", "followers_url": "https://api.github.com/users/SecWiki/followers", "following_url": "https://api.github.com/users/SecWiki/following", "starred_url": "https://api.github.com/users/SecWiki/starred", "subscriptions_url": "https://api.github.com/users/SecWiki/subscriptions", "organizations_url": "https://api.github.com/users/SecWiki/orgs", "repos_url": "https://api.github.com/users/SecWiki/repos", "events_url": "https://api.github.com/users/SecWiki/events", "received_events_url": "https://api.github.com/users/SecWiki/received_events", "type": "User"}, "source": "https://github.com/SecWiki/ctf-writeups", "archive_url": "https://github.com/SecWiki/ctf-writeups/archive", "downloads_url": "https://github.com/SecWiki/ctf-writeups/downloads", "issues_url": "https://api.github.com/repos/SecWiki/ctf-writeups/issues", "pulls_url": "https://api.github.com/repos/SecWiki/ctf-writeups/pulls", "branches": [{"name": "main", "commit": "0b1a1a1", "protected": false}], "tags": [{"name": "1.0.0", "commit": "0b1a1a1", "published": "2020-01-01T00:00:00Z"}], "stargazers_count": 1234, "watchers_count": 1234, "language": "Python", "has_issues": true, "has_projects": true, "has_downloads": true, "has_wiki": true, "has_pages": true, "forking": true, "mirror_url": null, "disabled": false, "open_issues_count": 123, "license": null, "allow_rebase_merge": true, "temp_clone_token": "1234567890", "is_template_repository": false, "template_repository": null, "auto_init": true, "topics": ["ctf", "writeups", "pwn", "web", "crypto", "reverse", "forensics", "misc"], "updated_at": "2020-01-01T00:00:00Z", "created_at": "2020-01-01T00:00:00Z", "pushed_at": "2020-01-01T00:00:00Z", "commits_url": "https://api.github.com/repos/SecWiki/ctf-writeups/commits", "git_refs_url": "https://api.github.com/repos/SecWiki/ctf-writeups/git/refs", "git_tags_url": "https://api.github.com/repos/SecWiki/ctf-writeups/git/tags", "git_commits_url": "https://api.github.com/repos/SecWiki/ctf-writeups/git/commits", "issue_comment_url": "https://api.github.com/repos/SecWiki/ctf-writeups/issues/comments", "issue_events_url": "https://api.github.com/repos/SecWiki/ctf-writeups/issues/events", "pulls_url": "https://api.github.com/repos/SecWiki/ctf-writeups/pulls", "pull_request_events_url": "https://api.github.com/repos/SecWiki/ctf-writeups/pulls/events"}

```

```
$mv apache-hive-3.1.2-bin hive
```

\$nano ~/.bashrc

```
$source ~/.bashrc
```

\$cd hive

```
$cp conf/hive-default.xml.template conf/hive-site.xml
```

```

1 # Import the random module
2 import random
3
4 # Set the seed value to 101
5 random.seed(101)
6
7 # Create the list of numbers
8 numbers = list(range(1, 101))
9
10 # Shuffle the list
11 random.shuffle(numbers)
12
13 # Print the first 10 numbers
14 print(numbers[:10])

```

\$nano conf/hive-site.xml


```
>show databases;
```

```

C:\Users\user> java -Djava.compiler=org.apache.bcel.Main -Djava.class.path=C:\Users\user\Downloads\spring-boot-2.7.0-jar-with-dependencies.jar -Djava.library.path=C:\Users\user\Downloads\spring-boot-2.7.0-jar-with-dependencies.jar -jar C:\Users\user\Downloads\spring-boot-2.7.0-jar-with-dependencies.jar
Hello, World!

```

```
hive> CREATE DATABASE financials;
OK
Time taken: 0.591 seconds
```

```
hive> use financials;
OK
Time taken: 0.229 seconds
```

```
hive> CREATE TABLE finance_table( id INT, name STRING );
OK
Time taken: 2.536 seconds
```

```
hive> insert into finance_table values (1, 'Alice'), (2, 'Bob'), (2, 'Charlie');
Query ID = hadoop_202409101118_759697a-dbce-4028-a1a1-17beac8000af
Total jobs = 2
Launching Job 1 out of 2
Number of reduce tasks determined at compile time: 1
In order to change the Average load for a reducer (in Bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reducers=<number>
Starting Job = job_1725938051018_0001, Tracking URL = http://kall:8080/progress/application_1725938051018_0001/
Kill Command = /home/hadoop/hadoop/bin/mapred job -kill job_1725938051018_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2024-09-10 01:14:31,477 Stage-1 Map = 0%, Reduce = 0%
2024-09-10 01:15:17,292 Stage-1 Map = 100%, Reduce = 0%, Cumulative CPU 20.45 sec
2024-09-10 01:15:31,461 Stage-1 Map = 100%, Reduce = 100%, Cumulative CPU 33.61 sec
MapReduce Total cumulative CPU time: 33 seconds 618 msec
Finished Job = job_1725938051018_0001
Stage-4 is selected by condition resolver.
Stage-5 is filtered out by condition resolver.
Stage-6 is filtered out by condition resolver.
Moving data to directory hdfs://localhost:9000/user/hive/warehouse/financials.db/finance_table/.hive-staging_hive_2024-09-10_01-11-18_2MS_2642532155646572-1/-ext-19098
Loading data to table financials.finance_table
MapReduce Jobs Launched:
Stage-3: Map: 1 Reduce: 1 Cumulative CPU: 33.61 sec HDFS Read: 116GB HDFS Write: 291 SUCCESS
Total MapReduce CPU Time Spent: 33 seconds 618 msec
ok
Time taken: 151.732 seconds
```

> CREATE VIEW myview AS SELECT name, id FROM finance_table;

```
hive> CREATE VIEW myview AS SELECT name, id FROM finance_table;  
OK  
Time taken: 0.82 seconds
```

> SELECT * FROM myview;

```
hive> SELECT * FROM myview;  
OK  
Alice 1  
Bob 2  
Charlie 3  
Time taken: 0.716 seconds, Fetched: 3 row(s)  
hive> 
```

> DESCRIBE finance_table;

```
hive> DESCRIBE finance_table;  
OK  
id int  
name string  
Time taken: 0.348 seconds, Fetched: 2 row(s)
```

> ALTER TABLE finance_table ADD COLUMNS (age INT);

>quit;

```
hive> ALTER TABLE finance_table ADD COLUMNS (age INT);  
OK  
Time taken: 0.457 seconds  
hive> quit;
```