HBASE - SECURITY

We can grant and revoke permissions to users in HBase. There are three commands for security purpose: grant, revoke, and user_permission.

grant

The **grant** command grants specific rights such as read, write, execute, and admin on a table to a certain user. The syntax of grant command is as follows:

```
hbase> grant <user> <permissions> [<table> [<column family> [&ltcolumn; qualifier>]]
```

We can grant zero or more privileges to a user from the set of RWXCA, where

- R - represents read privilege.
- W - represents write privilege.
- X - represents execute privilege.
- C - represents create privilege.
- A - represents admin privilege.

Given below is an example that grants all privileges to a user named 'Tutorialspoint'.

```
hbase(main):018:0> grant 'Tutorialspoint', 'RWXCA'
```

revoke

The **revoke** command is used to revoke a user's access rights of a table. Its syntax is as follows:

```
hbase> revoke <user>
```

The following code revokes all the permissions from the user named 'Tutorialspoint'.

```
hbase(main):006:0> revoke 'Tutorialspoint'
```

user_permission

This command is used to list all the permissions for a particular table. The syntax of **user_permission** is as follows:

```
hbase>user_permission 'tablename'
```

The following code lists all the user permissions of 'emp' table.

```
hbase(main):013:0> user_permission 'emp'
```