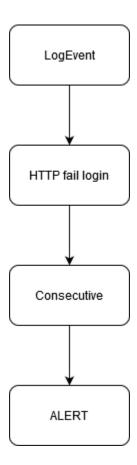
TASK : Classify Apache log messages for UnauthorizedAccessEvent

- Elements of the log used: IPAdress, userID, time, timezone.
- EPL statements:

```
private String statement =
"insert into httpConsecutiveFailedLoginAlert\n " +
    "select IPAddress, userID, time\n " +
    "from httpFailedLogin#time_batch(?:alertTimeWindow: integer second)\n " +
    "group by userID\n " +
    "having count(*) > ?:consecutiveAttemptThreshold:integer";
```

• Event hierarchy



```
public class httpLogEvent {
String IPAddress;
String identd;
String userID;
String time;
String timeZone;
String protocol;
String statusCode;
String returnObjSize;
String clientBrowser;
```

• In case of the status code is 401 is repeated, means that multiple fail login or unauthorized access, in the access.log in the path: /var/log/apache2/access.log, the web server will alert them based on their IPAddress, userID.