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1 Introduction

This document describes the complete process of taking Backup, Restoring Backup as well as Archival of Report and Configuration Database

We divided the process in below parts:

- BACKUP
- RESTORE
- ARCHIVAL
- ARCHIVAL RESTORATION



2 BACKUP

2.1 Prerequisites of Report and Config Backup

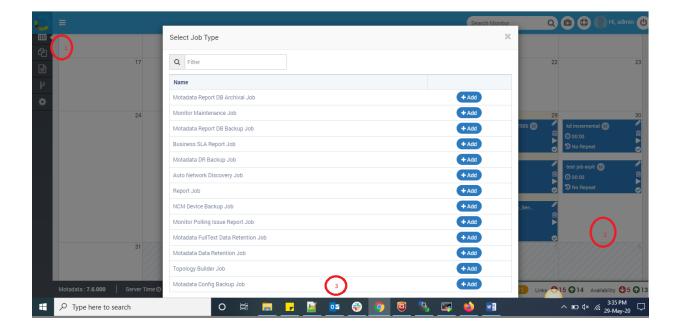
- Motadata should be up and running.
- FTP should be accessible via Motadata.
- Report DB Backup Job Plugin version 1.3 should be installed
- Config Backup Scheduler Job Plugin version 3.4 should be installed
- Go to first level Motadata directory on the server where Click-house is installed.
 If clickhouse-store.zip and clickhouse-store are already present then delete them.
- Download the new clickhouse-store utility from the deliverables
- Clickhouse-Store.zip should be placed in the first level motadata directory and Unzip it.

2.2 Config DB Backup

Step 1: Go to Schedulers and select the current or future desired date for backup job

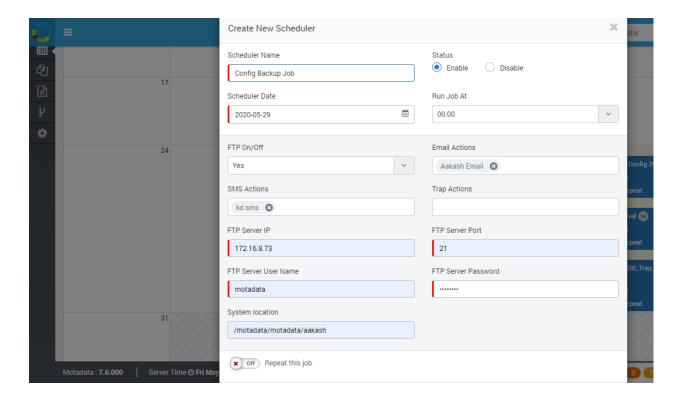
Step 2: In drop-down menu, select 'Motadata Config Backup Job' and click Add.

Step 3: Fill up the fields for Scheduling the backup. Here, take a local backup, leave the FTP fields blank or to take backup on FTP server, fill up all the details.





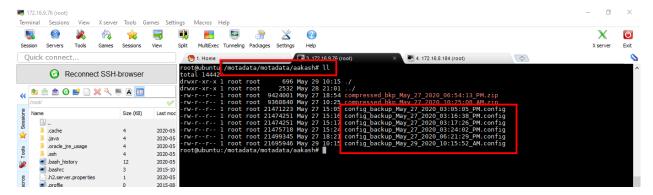
Step 4: Click on Create once done.



In case of Local Backup

Motadata takes the backup in /motadata/motadata/aakash folder.

File name: config_backup_.config (e.g. config_backup_Aug_07_2019_07:03:01_PM.config)



In case of FTP Backup

- Motadata uses the local backup and transfers it to remote server using FTP. This is an automatic process.
- SMS Action: SMS action can also be set, so notification will be sent via SMS

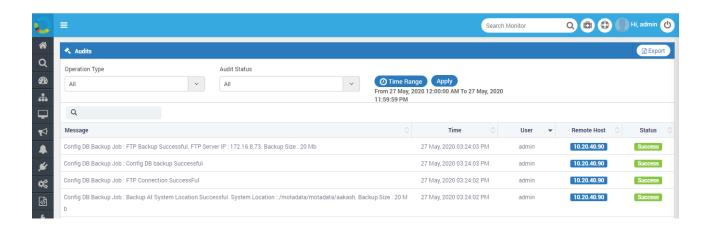


2.2.1 Result

Results can be validated using two ways, Email & SMS Notifications or audit Logs as shown below:



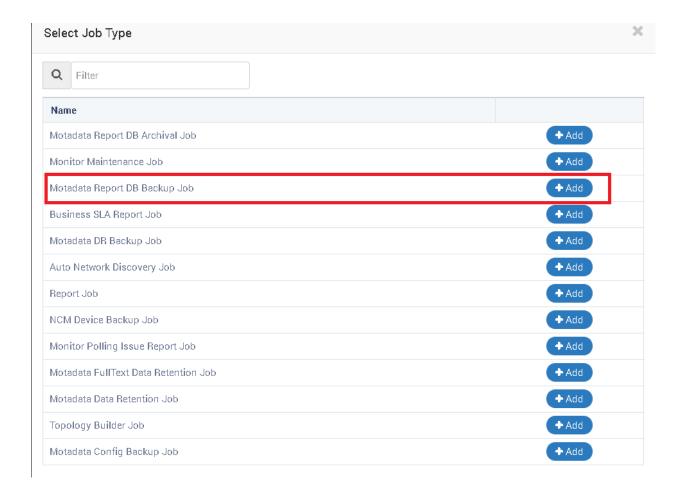
Hi User, Your action Config Db backup Job has been successfully executed. Note: This is an automated message generated by Motadata. Thank you!





2.3 Report DB backup

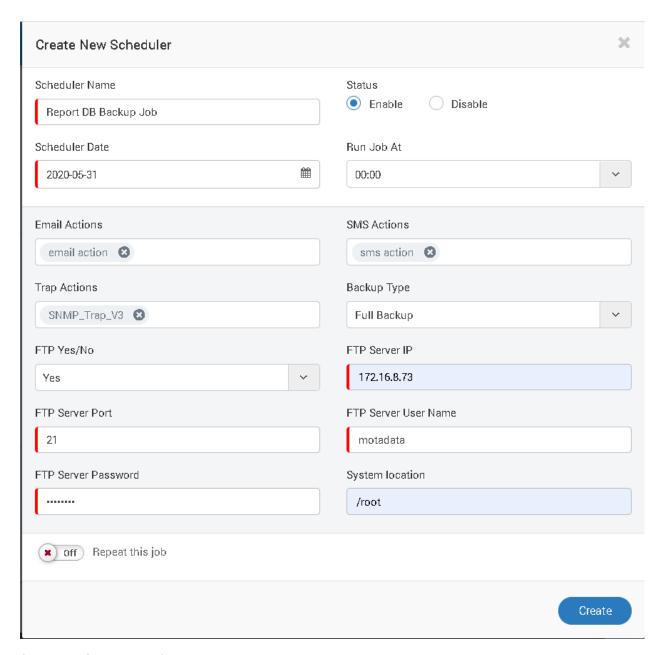
- Step 1: Login to Motadata GUI and go to Schedulers.
- Step 2: Click on current date or a future date
- Step 3: Create a new Motadata Report DB Backup Job



<u>Note:</u> In the whole application, there can only be one scheduler configured for incremental and full type of backup each. More than one scheduler of taking full backup is not allowed. Similar is for Incremental Backup as well.



Step 4: Make the necessary configurations as shown below:

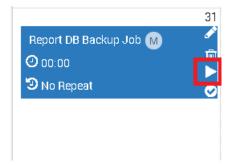


(FTP Configurations)

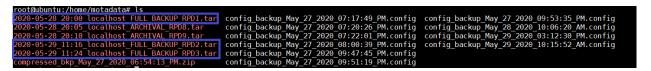
- FTP On/Off: Configure it ON if user wants to transfer the backup to remote location via FTP protocol. If configure YES, then add the port number, username and password of the FTP server
- **System Location**: Mention the desired path where user wants to store the backup on the server, where report DB is installed.
- **Email Action, SMS Action, and Trap Action:** Configure this action as created in the action module. Email and SMS Actions are mandatory.
- **Backup Type:** This decides the duration for which user wants to take the backup.



Step 5: Once the job is created you can run the job.



Step 6: Once backup is taken it will be stored on configured system location and FTP location.



2.3.1 <u>Incremental Backup</u>

a) If backup repeated daily from the day after last backup till previous day is counted and stored.

For example,

Scheduled backup is done on 1st May, 2020

Last successful backup is done on 7th March, 2020

So, the Current duration for backup will be from 8th March' 2020 to 30th April' 2020

b) If backup repeated monthly from the month after last backup till previous month is counted and stored.

For example,

Scheduled backup is taken on 1st May, 2020

Last successful backup is taken on till January, 2020

So, the Current duration for backup will be from February, 2020 to April, 2020

Note: If the tables are monthly partitioned or mixed partitioned then the backup configured to repeat daily will fail to stop backup of same data every day.

Similarly, if the tables are daily partitioned then the backup configured to repeat monthly will fail to stop backup of same data every month.



2.3.2 Full Backup

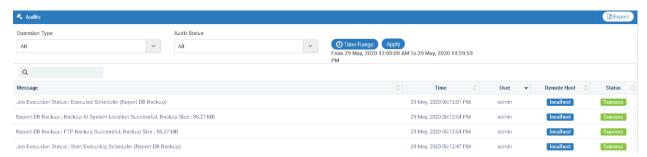
 This backup type can only be repeated monthly. Here, the whole backup of the active partitions till latest date and time will be taken. There are no constraints on the duration.

2.3.3 **Result**

Once the backup job has run, there are various way to check the status of the job and the taken backup. These ways are applicable for both full and incremental backup type. They are:

1. Audit logs

Audit log displays the status of the backup at system location and FTP server both with details.



2. Backup Restore logs

- On the server where clickhouse is installed, navigate to following path

/motadata/Clickhouse-Store/Report-Backup-Restore-log/

- Here check the Report-Backup-Restore-DEBUG.log showing the starting and ending of the backup job execution as highlighted below:



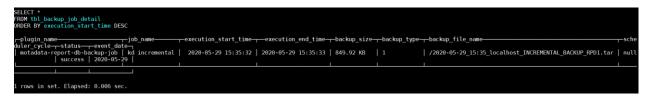


```
92-May 7909 81:49:10 PM DEBUG (BACKUP Report Db]:Last backup file :: /metadata/Clickhouse-Store/CLICKHOUSE-BACKUP/2020-05-29_16:49_localhost_FULL_BACKUP_RPD1.tar
22-May 7909 81:49:10 PM DEBUG (MCTMON Report Db) [connection to Opin Over (tp., 172.1b.; 1/3 successful
22-May 7909 81:49:10 PM DEBUG (MCTMON Report Db) (account of Opin Over (tp., 172.1b.; 1/3 successful
22-May 7909 81:49:10 PM DEBUG (MCTMON Report Db) (account of Opin Over (tp., 172.1b.; 1/3 successful
22-May 7909 81:49:10 PM DEBUG (MCTMON Report Db) (account of Opin Over (tp., 172.1b.; 1/3 successful
22-May 7909 81:49:10 PM DEBUG (BACKUP Report Db) (account Data) (account of Opin Over (tp., 172.1b.; 1/3 successful)
22-May 7909 81:49:10 PM DEBUG (BACKUP Report Db) (account Data) (accou
```

<u>Note</u>: To check if Email and SMS notifications are successfully sent, refer Report-Backup-Restore-NOTIFICATION.log

Clickhouse table 'tbl_backup_job_detail'

- This table contains the backup of the last successful backup for incremental type of backup only



4. Email Notification in case of successful backup





3 RESTORE

3.1 Prerequisites of Report and Config Restore

- If Isof package is not installed we need to manually install it. Download the package from:
 - https://motadata2016.s3.amazonaws.com/Motadata/7.6.000/Deliverables/Deliverables.zip
- https://motadata2016.s3.ap-south-1.amazonaws.com/Motadata/7.6.200/Deliverables/Deliverables.zip
- Download using the above link and Unzip it (Deliverable.zip)
- After Extraction, take the respective package from the folder where, packages for both operating system will be available as mentioned:
 1. Ubuntu
 - 2. RHEL 7.7
- Place the required package at /opt on your server
- Go to oopt and run the below command for Ubuntu:
 - dpkg -i lsof_4.89+dfsg-0.1_amd64.deb
- Go to /opt and run the below command for RHEL:
 rpm -i lsof-4.87-6.el7.x86_64.rpm
- Search for Clickhouse-Store.zip and Clickhouse-Store in first level of motadata folder. If it is available, delete the files using the below commands:

rm Clickhouse-Store.zip

rm -r Clickhouse-Store

- Download the new utility from deliverables
- Upload the zip file in first level motadata folder.
 - In standalone server, upload the utility in master server.
 - In distributed mode server, upload the utility in data node server. No need to upload file in master server
- Unzip Clickhouse-Store.zip
- Download the files ConfigDBRestoreScript.sh and motadata-config-db-restore-utility-1.0.jar from deliverables
- Create actions in motadata GUI with prefix CONFIG_RESTORE_EMAIL1/2/3/4 and CONFIG_RESTORE_SMS1/2/3/4 for receiving email and SMS notifications respectively.
- Take a configuration database backup which will be used for restoration.(Skip this if a previous backup file is available)



Step 1: Create a new folder with name 'configdbrestoration' at path /motadata/motadata in the motadata server.

Step 2: Place the downloaded files ConfigDBRestoreScript.sh and motadata-configdb-restore-utility-1.0.jar in this folder.

Also place the configuration backup file in this folder that needs to be restored.



3.2 Config DB Restoration

Step 1: Check in 'configdbrestoration' folder for the below three necessary files

- ConfigDBRestoreScript.sh
- Motadata-config-db-restore-utility-1.0.jar
- Backup file in .config format

Step 2: Stop motadata service by running the below command

service motadata stop

Step 3: Go to /motadata/motadata/configdbrestoration folder.

Step 4: Run the below command

./ConfigDBRestoration.sh

The configuration DB will be restored.

Step 4: Restart the motadata service by running the below command

Service motadata start

These complete steps will help to restore configuration database for motadata server.

3.2.1 Result

Backup can be successfully validated using the Logs as below:

```
27-May-2020 07:26:39 PM INFO [Restore Config Util]:File picked for backup : /motadata/motadata/configdbrestoration/config_backup_May_27_2020_07:22:01_PM.config
27-May-2020 07:26:30 PM INFO [Restore Config Util]:Fetching DB Records
27-May-2020 07:26:40 PM INFO [Restore Config Util]:Fetching HZ Generation
27-May-2020 07:26:41 PM INFO [Restore Config Util]:Fetching HZ Connection
27-May-2020 07:26:41 PM INFO [Restore Config Util]:Fetching HZ Connection
27-May-2020 07:26:41 PM INFO [Restore Config Util]:FraconfigoticificationRecipients[emailRecipients=nirav.more@motadata.com, urlWiseSms={http://172.16.8.78=9724314321}}
27-May-2020 07:26:42 PM INFO [Restore Config Util]:FraconfigoticificationRecipients
27-May-2020 07:26:55 PM INFO [Restore Config Util]:FraconfigoticificationRecipients
27-May-2020 07:26:55 PM INFO [Restore Config Util]:FraconfigoticificationRecipients[emailRecipients=nirav.more@motadata.com, urlWiseSms={http://172.16.8.78=9724314321}}
27-May-2020 07:26:55 PM INFO [Restore Config Util]:FraconfigotificationRecipients[emailRecipients=nirav.more@motadata.com, urlWiseSms={http://172.16.8.78=9724314321}}
27-May-2020 07:26:59 PM INFO [Restore Config Util]:SMS SMS Sent Successfully
Restage : Config DB Restoration job completed successfully
Recipients : 9724314321
27-May-2020 07:26:59 PM INFO [Restore Config Util]:SMS SMS Action Response ::{Status=1, response-code=200, page-size=1184, url-content=<!DOCTYPE html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><html><htm
```

3.3 Report DB Restore

Step 1: Make sure the CLICKHOUSE-RESTORE folder is available in motadata/Clickhouse-Store. If not, create a new folder named as 'CLICKHOUSE-RESTORE'

Step 2: Copy the desired backup file into CLICKHOUSE-RESTORE. Please check that the below files should be present in the Clickhouse-Store

Also put these files in Clickhouse-Store and give permission to the below 3 files using the below command:



For example: chmod 775 ReportDBBackupRestoration.sh

- ReportDBBackupRestoration.sh
- TraceOrgReportDBRestoreConfigUtility-1.0
- motadata-conf.yml

The motadata-conf.yml file will have below details:

For example

- host: '172.16.8.73'

- user: 'root'

- password: 'motadata'

Note: Here, host refers to config db host.

Step 3: Mail / sms will get triggered if its prefix is RPD_BKP_EMAIL1/2/3/4 or RPD_BKP_SMS1/2/3/4

Step 4: For restoration, just take ssh of the desired server and run the below script after navigating to the Clickhouse-Store in which the file is present:

motadata/Clickhouse-Store# ./ReportDBBackupRestoration.sh

3.4 Result



4 REPORT DB ARCHIVAL

The document helps user to restore the Report DB Backup.

4.1 Prerequisites

1. Search for Clickhouse-Store.zip and Clickhouse-Store in first level of motadata folder. If it is available, delete the files using the below commands

rm Clickhouse-Store.zip

rm -r Clickhouse-Store

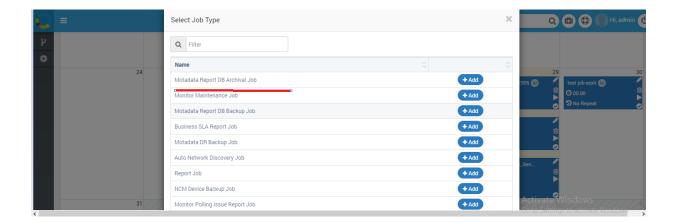
- 2. Download the new utility from the deliverables
- 3. Upload the zip file in first level motadata folder.
- In standalone server, upload the utility in master server.
- In distributed mode server, upload the utility in data node server. No need to upload file in master server
 - 4. Unzip Clickhouse-Store.zip
 - 5. Motadata Report DB Archival Job plugin should be present
 - 6. Edit Feature will not work here, so new job needs to be created every time.
 - 7. Report DB Archival Job Plugin.

4.2 Report DB Archival

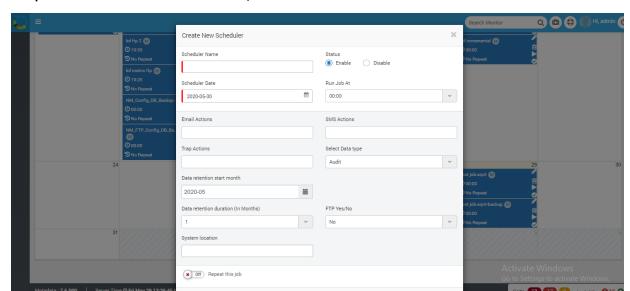
Step 1: Login to Motadata GUI and go to Schedulers.

Step 2: Click on the desired current date or a future date

Step 3: Select Motadata Report DB Archival Job.

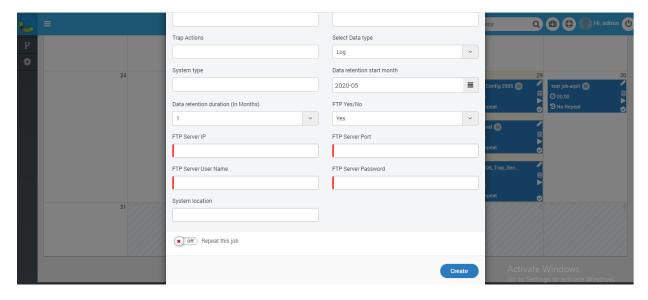






Step 4: Click on Add which will open the screen with the below shown fields:

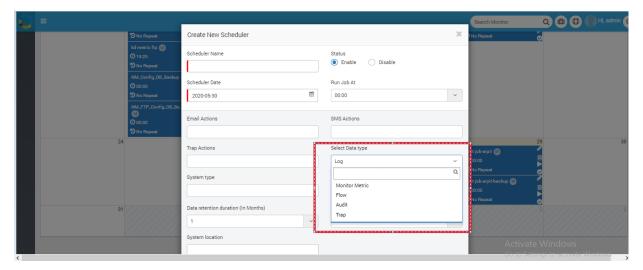
- **Step 5**: For taking the backup locally select FTP = No.
- Step 6: To take backup on FTP server, fill all the details as shown below:

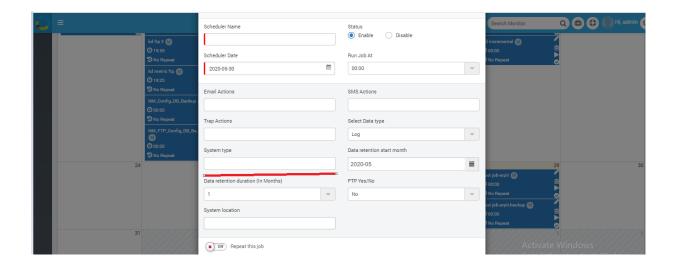


- There are 2 data types which are type wise where we need to select the system type.
- 1. Log (Type Wise)
- 2. Flow (Type Wise)

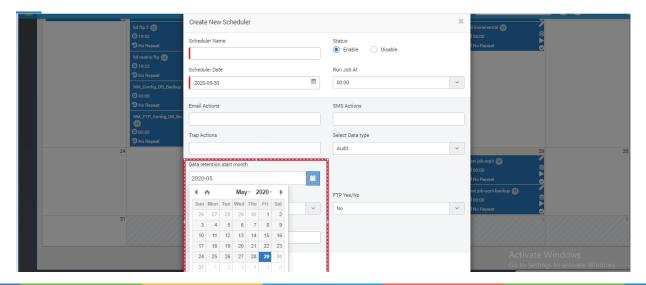


- Here, Monitor Metric, Audit and Trap does not have Specific system types

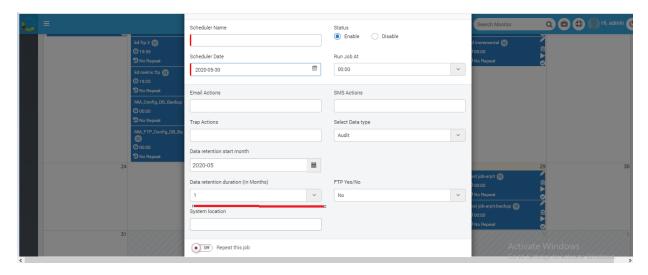




Step 7: Select System Retention start month from the date from which you want to take archival.





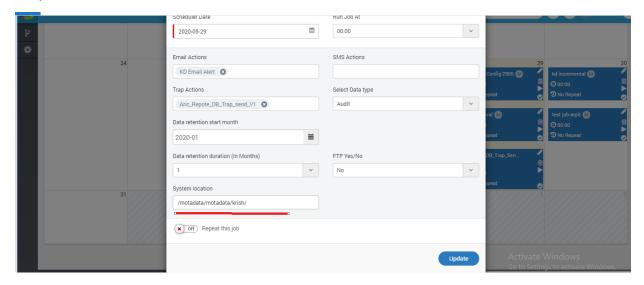


Step 8: Select retention duration: It will deduct the month from the current date. For example,

If start date is 1st of Jan 2020 and retention is 1

Then, it will take archival from Jan to (Current date -1 Month)

Step 9: Give the system location where archival file is to be saved



Step 10: Run the job for immediate archival otherwise, the job will run at its scheduled time.

- It will be saved in the below location in case of local:

root@ubuntu:/motadata/Clickhouse-Store# cd CLICKHOUSE-RESTORE/
root@ubuntu:/motadata/Clickhouse-Store/CLICKHOUSE-RESTORE# ls
2020-05-29_15:35_localhost_INCREMENTAL_BACKUP_RPD1.tar RESTORE
root@ubuntu:/motadata/Clickhouse-Store/CLICKHOUSE-RESTORE# ■



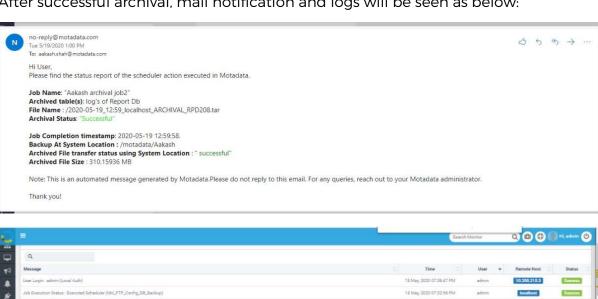
IF FTP is was selected, it will get saved in the home/motadata directory of the FTP server by default:

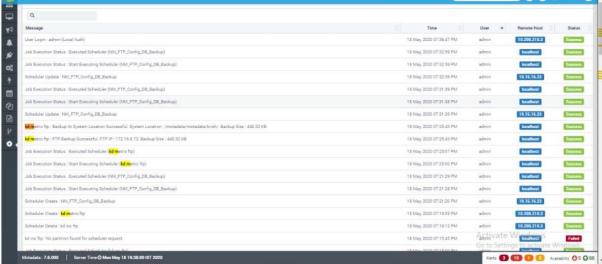
```
oot@ubuntu:/home/motadata# ls
  020-05-28_20:00_localhost_FULL_BACKUP_RPD1.tar
020-05-28_20:05_localhost_ARCHIVAL_RPD8.tar
020-05-28_20:10_localhost_ARCHIVAL_RPD9.tar
                                                                                                                                                            config_backup_May_27_2020_07:22:01_PM.config
config_backup_May_27_2020_08:00:39_PM.config
config_backup_May_27_2020_09:47:45_PM.config
config_backup_May_27_2020_00:51:10_DM.config
020-05-29_11:24_localhost_FULL_BACKUP_RPD3.tar
ompressed_bkp_May_27_2020_06:54:13_PM.zip
onfig_backup_May_27_2020_07:17:49_PM.config
onfig_backup_May_27_2020_07:20:26_PM.config
oot@ubuntu:/home/motadata#
                                                                                                                                                            config_backup_May_27_2020_09:53:35_PM.config
config_backup_May_28_2020_10:06:20_AM.config
config_backup_May_29_2020_03:12:30_PM.config
config_backup_May_29_2020_10:15:52
```

Email and SMS actions can be set to receive notification

4.3 Result

After successful archival, mail notification and logs will be seen as below:







5 ARCHIVAL RESTORATION

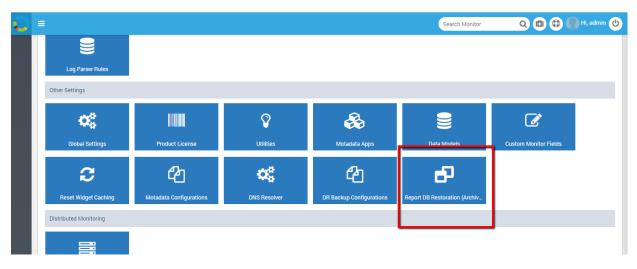
5.1 Pre-requisite

- ReportDBArchivalRestoration.sh restore-report-db-archival-1.0.jar must be there in Click-house Store Folder.
- Give Permission to both files by using below commands respectively: chmod 777 ReportDBArchivalRestoration.sh chmod 777 restore-report-db-archival-1.0.jar
- Archival Job must be running for which, the data restoration has to be done.

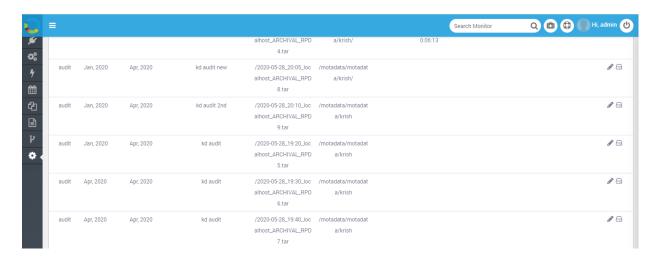
5.2 Steps for the Restoration

Step 1: Login in to Motadata

Step 2: Go to Admin > Other Settings > Report DB Restoration as shown below:



It will show the list of restored logs



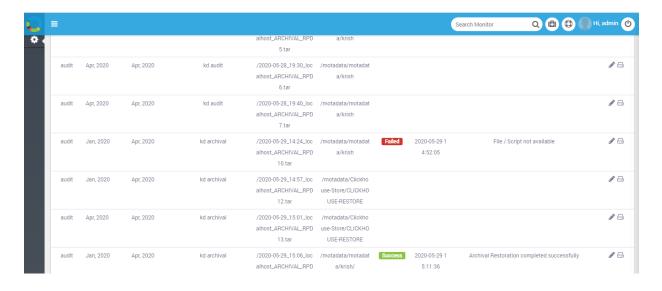


- Click on the Restore button as shown below



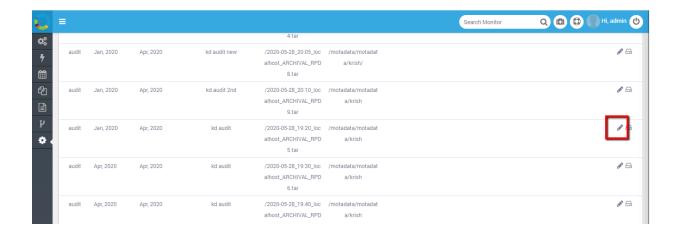
 Once the file is restored, there will be two scenarios, Either the data will be restored or will fail

(Reasons for failure can be multiple scenarios like file not available or Data Discrepancy as shown in below)

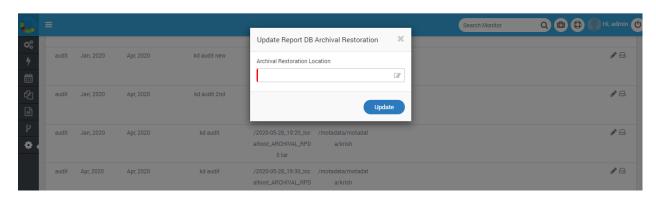




- If the back-up is stored at FTP location, a back-up of it should be taken at specified location and that location needs to be updated as shown below:



- Now, update the location where the copied back-up is stored as shown below:



- Now, update the new location and do a restore.
- Once you restore the data, then data will append in the respected table.
- Restoration related log are stored in Click-house store Folder in Report-Backup-Restore-log.

Keep in touch

www.motadata.com, sales@motadata.com,

India: +91 79-2680-0900, USA: +1 408-418-5229

About Motadata

Mindarray Systems Pvt. Ltd. a global IT product company, offers state of the art affordable yet powerful product suite - Motadata consisting of Network Management & Monitoring, Log & Flow Management, and IT Service Management Platforms. The platform empowers both IT administrators and CXOs to analyze, track & resolve IT operational issues by effectively monitoring various systems and devices from multiple vendors through a unified and centralized dashboard.

Motadata is industry's first IT ops solution that truly correlates the metric, flow and log events and turns them into actionable insights. Our global customers from Telecom, Government and Enterprise domain, rely on Motadata for proactively monitor their network infrastructure.

For more information, visit www.motadata.com.

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