

## Backup/Restore/Archival SOP

Motadata NMS





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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

## a. 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.



## b. 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.

				Search Monitor	Q		Hi, admin 🕐
			Select Job Type	×			
	17	7	Q Filter		22		23
Y			Name				
ø			Motadata Report DB Archival Job	+ Add			
	24	4	Monitor Maintenance Job	+ Add	29		30
			Motadata Report DB Backup Job	+ Add (90)	• M 🥤	kd incremental (	M (
			Business SLA Report Job	+ Add	▶ 0	D No Repeat	▶ 0
			Motadata DR Backup Job	+ Add	1	test job-arpit 🕅	~
			Auto Network Discovery Job	+ Add	Û	<b>O</b> 00:00	Û
			Report Job	+ Add	Ó	🕲 No Repeat	Ö
			NCM Device Backup Job	+ Add	:n 🖋		
			Monitor Polling Issue Report Job	+ Add	•	(	
_		1	Motadata FullText Data Retention Job	+ Add	0		2
	31		Motadata Data Retention Job	+ Add			°
			Topology Builder Job	+ Add			
	Motadata : <b>7.6.000</b> Server	r Time Ø	Motadata Config Backup Job	+ Add 71	Links 😷	1 <b>5 🕜</b> 14 Availa	ability 😍 5 🕢 1 3

#### **Step 4**: Click on Create once done.

	≡	Create New Scheduler			×	itor
==• ℃	17	Scheduler Name Config Backup Job Scheduler Date		Status Enable Disable Run Job At		
<b>0</b> Y		2020-05-29		00:00	-	
	24	FTP On/Off Yes	~	Email Actions		Config 2
		SMS Actions		Trap Actions		epeat val M
		FTP Server IP 172.16.8.73		FTP Server Port		epeat
		FTP Server User Name motadata		FTP Server Password		рв_тгар_ epeat
	31	System location /motadata/motadata/aakash				
	Motadata : <b>7.6.000</b>   Server Time <b>O Fri M</b> ay	<b>x</b> off Repeat this job				3 7



#### 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)

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n n n	<ul> <li>profile</li> </ul>			0	2015-0	8																				

#### 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
  - i. Result

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

Confi	g DB Backup Job				
N	no-reply@motadata.com Fri 5/29/2020 10:37 PM To: aakashshah@motadata.com	ᡌ	€ «)	$\rightarrow$	
	Hi User, Your action Config Db backup Job has been successfully executed. Note: This is an automated message generated by Motadata.				
	Thank you!				



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$\mathbf{O}$	=	Search Mo	nitor Q 🖨 🗘 Hi, admin 🕑
*	🔦 Audits		Export
Q 689 4≣	Operation Type Audit Status           All         V         All         OTime Ra           From 27 May, 11:59:59 PM         11:59:59 PM         11:59:59 PM         11:59:59 PM	nge Apply 2020 12:00:00 AM To 27 May, 2020	
<b>P</b>	٩		
₽	Message	Time 🗘	User 👻 Remote Host 🗘 Status 🗘
	Config DB Backup Job : FTP Backup Successful. FTP Server IP : 172.16.8.73. Backup Size : 20 Mb	27 May, 2020 03:24:03 PM	admin 10.20.40.90 Success
ý	Config DB Backup Job : Config DB backup Successful	27 May, 2020 03:24:03 PM	admin 10.20.40.90 Success
¢\$	Config DB Backup Job : FTP Connection SuccessFul	27 May, 2020 03:24:02 PM	admin 10.20.40.90 Success
\$	Config DB Backup Job : Backup At System Location Successful. System Location : /motadata/motadata/aakash. Backup Size : 20 M b	27 May, 2020 03:24:02 PM	admin 10.20.40.90 Success

## c. 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.

Select Job Type	×
Q Filter	
Name	
Motadata Report DB Archival Job	+ Add
Monitor Maintenance Job	+ Add
Motadata Report DB Backup Job	+ Add
Business SLA Report Job	+ Add
Motadata DR Backup Job	+ Add
Auto Network Discovery Job	+ Add
Report Job	+ Add
NCM Device Backup Job	+ Add
Monitor Polling Issue Report Job	+ Add
Motadata FullText Data Retention Job	+ Add
Motadata Data Retention Job	+ Add
Topology Builder Job	+ Add
Motadata Config Backup Job	+ Add

**Note**: 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:

Create New Scheduler	×
Scheduler Name Report DB Backup Job	Status <ul> <li>Enable</li> <li>Disable</li> </ul>
Scheduler Date	Run Job At
2020-05-31	00:00 ~
Email Actions	SMS Actions
email action	sms action
Trap Actions	Backup Type
SNMP_Trap_V3	Full Backup     >
FTP Yes/No	FTP Server IP
Yes	172.16.8.73
FTP Server Port	FTP Server User Name
21	motadata
FTP Server Password	System location
	/root
<b>8</b> off Repeat this job	
	Create

## (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.

root@ubuntu:/home/motadata# ls 2020-05-28 20:00 localhost FULL BACKUP RPD1.tar 2020-05-28 20:00 localhost FULL BACKUP RPD1.tar 2020-05-28 20:10 localhost ARCHIVAL RPD8.tar 2020-05-28 20:10 localhost ARCHIVAL RPD9.tar 2020-05-29 11:16 localhost FULL BACKUP RPD2.tar 2020-05-29 11:16 localhost FULL BACKUP RPD3.tar 2020-05-29 11:24 localhost FULL BACKUP RP3.tar 2020-05-29 11:24 localhost FULL BACKUP RP3.tar

## ii. Incremental Backup

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 1<sup>st</sup> May, 2020 Last successful backup is done on 7<sup>th</sup> March, 2020 So, the Current duration for backup will be from 8<sup>th</sup> March' 2020 to 30<sup>th</sup> 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 1<sup>st</sup> 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.

#### iii. 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.





#### iv. 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.

🔦 Audits					Export
Operation Type All	Audit Status All	O Time Range Apply From 29 May, 2020 12:00:00 AM To 29 May, 2020 11:59:59 PM			
٩					
Message		⇔ Time ♦	User 👻	Remote Host 🛛 🗘	Status 🗘
Job Execution Status : Executed Scheduler (Report DB Backup)		29 May, 2020 05:13:01 PM	admin	localhost	Success
Report DB Backup : Backup At System Location Successful. Bac	kup Size : 86.27 MB	29 May, 2020 05:12:54 PM	admin	localhost	Success
Report DB Backup : FTP Backup Successful, Backup Size : 86.2	' MB	29 May, 2020 05:12:54 PM	admin	localhost	Success
Job Execution Status : Start Executing Scheduler (Report DB Ba	ckup)	29 May, 2020 05:12:47 PM	admin	localhost	Success

## 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:

29-Hay-2020 04:49:15 PM DEBUG [MOTADATA/Report DB Backup Common Util]:SUCCESSFUL CLICKHOUSE CONNECTION 29-Hay-2020 04:49:15 PM DEBUG BACKUP Report DB :received args : 0 0 29-Hay-2020 04:49:15 PM DEBUG BACKUP Report DD :received args : 1 0 29-Hay-2020 04:49:15 PM DEBUG BACKUP Report DD :received args : 1 0 29-Hay-2020 04:49:15 PM DEBUG BACKUP Report DD :received args : 1 0 29-Hay-2020 04:49:15 PM DEBUG BACKUP Report DD :received args : 1 0 29-Hay-2020 04:49:15 PM DEBUG BACKUP Report DD :received args : 1 0 29-Hay-2020 04:49:15 PM DEBUG BACKUP Report DD :received args : 1 0 49-DAVECAGENTFICX+0042DMG/DM PM 20-MARGUEANDEVCADEVCADEVCADEVCADEVCADEVCADEVCADEVCA
29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:Last backup file :: /motadata/Clickhouse-Store/CLICKHOUSE-BACKUP/2020-05-29_16:49_localhost_FULL_BACKUP_RPD1.tar 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection login over tpp17.2.bb.87.5 successful 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection store // toroit 29-May-2020 04:49:19 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020 04:49:20 PM DEBUG [BACKUP Report Db]:role connection // toroit 29-May-2020

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

C

### 3. 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

## a. Prerequisites of Report and Config Restore

- If Isof package is not installed we need to manually install it. Download the package from: <u>https://motadata2016.s3.amazonaws.com/Motadata/7.6.000/Deliverables/D</u>eliverables.zip
- <u>https://motadata2016.s3.ap-south-</u>
   <u>l.amazonaws.com/Motadata/7.6.200/Deliverables/Deliverables.zip</u>
- 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:
  - i. Ubuntu
  - ii. RHEL 7.7
- Place the required package at /opt on your server





- Go to /opt 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-dbrestore-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.

## b. Config DB Restoration

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

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

If the configdbrestoration folder does not exist, create it, and place the above files in it.

**Step 2**: Place the file ConfigDBRestoreScript.sh in the second level of motadata as shown below:





## /motadata/motadata

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.

## i. Result

Backup can be successfully validated using the Logs as below:



## c. 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:** Place the ReportDBBackupRestoration.sh file in the path /motadata/motadata

**Step 3:** Copy the desired backup file into CLICKHOUSE-RESTORE. Please check that the below files are present in the Clickhouse-Store. Also, put these files in Clickhouse-Store and give permission to the below 2 files using the below command:

For example: chmod 775 motadata-conf.yml

- TraceOrgReportDBRestoreConfigUtility-1.0
- motadata-conf.yml

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

• host: '172.16.8.73'





- user: 'root'
- password: 'motadata'

Note: Here, host refers to config db host.

**Step 4:** Mail / sms will get triggered if its prefix is RPD\_BKP\_EMAIL1/2/3/4 or RPD\_BKP\_SMS1/2/3/4

**Step 5:** For restoration, just take ssh of the desired server and run the below script after navigating to the path /motadata/motadata: motadata/motadata# ./ReportDBBackupRestoration.sh

## d. Result



## 4. Report DB Archival

The document helps user to restore the Report DB Backup.

## a. 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.





## b. Report DB Archival

Step 1: Login to Motadata GUI and go to Schedulers.Step 2: Click on the desired current date or a future dateStep 3: Select Motadata Report DB Archival Job.

		Select Job Type	×	C C C C C C C C C C C C C C C C C C C
ų		Q Filter		
\$	24	Name		20 20
	24	Motadata Report DB Archival Job	+ Add	1905 M 🖌 test job-arpit M
		Monitor Maintenance Job	+ Add	
		Motadata Report DB Backup Job	+ Add	No Repeat
		Business SLA Report Job	+ Add	
		Motadata DR Backup Job	+ Add	
		Auto Network Discovery Job	+ Add	200
		Report Job	+ Add	_oen ∰
		NCM Device Backup Job	+ Add	
	31	Monitor Polling Issue Report Job	+ Add	Activate Windows

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

	1					Search Monitor	0 🖻 🔍 (	📄 Hi, admin 🕐
kd f	ftp 2 🛞	Create New Scheduler			×	d incremental 📶		
0 1 ত ম	19:55 No Repeat metric fto 🕅	Scheduler Name		Status <ul> <li>Enable</li> <li>Disable</li> </ul>		00:00 P No Repeat		
01 20 10	19:25 No Repeat	Scheduler Date 2020-05-30	<b>#</b>	Run Job At	~			
00 9 N	00:00 No Repeat	Email Actions		SMS Actions				
00 00	A_FTP_Config_DB_Ba. ) 00:00 No Repeat	Trap Actions		Select Data type				
24				Audit	~	29		30
		Data retention start month				est job-arpit 🚷 🧳		
		2020-05	=			No Repeat		
		Data retention duration (In Months)		FTP Yes/No		sst job-arpit-baokup 🚳 🧖		
		1	~	No	~	No Repeat		
31		System location						
		(x) Off Repeat this job				Activate Go to Settir	Windows ligs to activate V	Vindows.
	ri May 29 13:26:45 I					Alerts	0 117 🙂 Ava	ailability 🕐 15 🞧

**Step 5:** For taking the backup locally select FTP = No.



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Step 6: To take backup on FTP server, fill all the details as shown below:

						itor	Q (			in 🕑
P		Trap Actions		Select Data type						
\$	24	System type		Data retention start month 2020-05		Config 2905 M	29	test Job-arpit 🚺	D	30
		Data retention duration (In Months)	~	FTP Yes/No Yes	~	epeat		② 00:00 ② No Repeat		0 V II
		FTP Server IP		FTP Server Port		val M i speat	× 1111 × 11111 × 11111 × 11111 × 11111 × 11111 × 11111 × 11111 × 11111 × 11111 × 11111 × 111111			
		FTP Server User Name		FTP Server Password		DB_Trap_Sen	▶ @ ►			
	31	System location				epeat	5			
		(x) off) Repeat this job		Cree	ate	Activ				
						Go to S	Setting	s to activate	Windows	

- There are 2 data types which are type wise where we need to select the system type.
  - Log (Type Wise)
  - Flow (Type Wise)
- Here, Monitor Metric, Audit and Trap does not have Specific system types

					Search Monitor	🝳 🕲 🕲 📗 Hi, admin 🌘
		3 No Repeat	Create New Scheduler	×	) No Repeat	0
		kd metric ftp 🚺 ② 19:25 ② No Repeat	Scheduler Name	Status <ul> <li>Enable</li> <li>Disable</li> </ul>		
		NM_Config_DB_Backup ② 00:00 ③ No Repeat	Scheduler Date	Run Job At 00:00 ~		
		NM_FTP_Config_DB_Ba	Email Actions	SMS Actions		
	24		Trap Actions	Select Data type	it job-arpit 🚺	29 30 29
			System type	Log ~ Q Monitor Metric	No Repest No Repest t job-arpit-backup 🔕	► 07
	31		Data retention duration (in Months)	Flow Audit Trap	No Repeat	5
<			System location		Activate Go to Setti	Windows

C	=		Scheduler Name	Status	Search Monitor Q 🕲 🔀 Hi, admin 🕻
		kd ftp 2 🚺 Ø 19:55 Ø No Repeat kd metric ftp 🚺	Scheduler Date	Run Job At	d incremental (0)
		0 19:25 D No Repeat NM_Config_DB_Backup 0 00:00	Email Actions	SMS Actions	
		D No Repeat NM_FTP_Config_DB_Ba	Trap Actions	Select Data type Log	
	24	් No Repeat	Data retention duration (in Months)	2020-05	20 at job sepit (0) 2 Ionon Ê
			1 v System location	No	No Repeat O tio Repeat O 100:00 C No Repeat O
	31		(x) Off Repeat this job		Activate Windows

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

kd ftp 2 🕐 Ø 19.55	Create New Scheduler	X	d incremental (1)
D Ho Repeat Id metric fip (1) O 1925 D Ho Repeat IMC Repeat	Scheduler Date	e Enable Disable Run Job At 00:00	Ho Report
O Occo O No Repeat NM_FTP_Confg_DB	Email Actions	SMS Actions	
0 00 00 3 No Repeat 24	Trap Actions	Select Data type Audit	29 30
	2020-05 E	FTP Yes/No	1 00:00 V No Aspant O est job-arpit-backup () 1 00:00 B
31	26         27         28         29         30         1         2           3         4         5         6         7         8         9           10         11         12         13         14         15         16           17         18         19         20         21         22         23	No	D to Repeat O
	24         25         26         27         28         29         30           31         1         2         3         4         5         6		Activate Windows Go to Settings to activate Windows.

C	=		Scheduler Name		Status		Search Monitor Q 🖨 🖨 Hi, admin 🕻
		kd ftp 2 (8) ② 19:55 ③ No Repeat kd metric ftp (9) ② 19:25	Scheduler Date 2020-05-30		Enable     Disable  Run Job At  00:00	~	I Incremental () 10000 The Repeat
		り No Repeat NM_Config_DB_Backup の 00.00 り No Repeat	Email Actions		SMS Actions		
		MM_FTP_Config_DB_Ba.	Data retention start month		Audit	~	
	24		2020-05 Data retention duration (in Months) 1 Control language	₩	FTP Yes/No No	*	23 30 nt jok-arpit (2) Pocco No Ropaut nt jok-arpit backup (2)
<	31		System location				lecto Pile Repair Activate Windows Go to Fortuge to define a Mindows

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

If start date is 1<sup>st</sup> 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

	Scheduler Date	HUN JOD AT	
P	2020-05-29	00:00 ~	
A			
24	Email Actions	SMS Actions	20 20
27	KD Email Alert		Config 2905 🚺 🖌 kd incremental 🕥 🖌
	Trap Actions	Select Data type	1 0 00:00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Aric_Repote_DB_Trap_send_V1 😣	Audit ~	
	Data retention start month		val M test job-arpit M T
	2020-01		epeat 👩 D No Repeat
	Data retention duration (In Months)	FTP Yes/No	DB_Trap_Sen
	1	No	
	System location		speat 📀
31	/motadata/motadata/krish/		5 6
	•		
	x off Repeat this job		
		Update	Activate Windows
			Go to Settings to activate Windows.

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**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 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	contig_backup_May_27_2020_07:22:01_PM.contig
020-05-28_20:05_localhost_ARCHIVAL_RPD8.tar	config_backup_May_27_2020_08:00:39_PM.config
020-05-28 20:10 localhost ARCHIVAL RPD9.tar	config backup May 27 2020 09:47:45 PM.config
120 05 20 11:16 localbact FULL RACKUD RDD2 tar	config backup May 27 2020 00:51:10 DM config
020-05-29_11:24_localhost_FULL_BACKUP_RPD3.tar	config_backup_May_27_2020_09:53:35_PM.config
ompressed_bkp_May_27_2020_06:54:13_PM.zip	config_backup_May_28_2020_10:06:20_AM.config
onfig_backup_May_27_2020_07:17:49_PM.config	config_backup_May_29_2020_03:12:30_PM.config
onfig_backup_May_27_2020_07:20:26_PM.config	config_backup_May_29_2020_10:15:52 AM; config//indow
oot@ubuntu:/home/motadata#	

• Email and SMS actions can be set to receive notification

#### c. Result

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

						4	ļ
no	-repl/@motadata.com						
Tu	e 5/19/2020 1:00 PM	3	5	3	$\rightarrow$	ł	
To:	: aakash.shah@motadata.com						
Hi	User,						
Ple	ease find the status report of the scheduler action executed in Motadata.						
Jo	b Name: "Aakash archival iob2"						
Ar	chived table(s): log's of Report Db						
Fil	le Name : /2020-05-19 12:59 localhost ARCHIVAL RPD208.tar						
Ar	chival Status: "Successful"						
Jo	b Completion timestamp: 2020-05-19 12:59:58.						
Ba	ackup At System Location : /motadata/Aakash						
Ar	chived File transfer status using System Location : " successful"						
Ar	chived File Size : 310.15936 MB						
No	ate: This is an automated message generated by Motadata.Please do not reply to this email. For any queries, reach out to your Motadata administrator.						
Th	ank you!						

	6	arch Monitor	000	🔲 Hi, admin (	
٩					
Message	0 Time	User 👻	Remote Host	© Status	
User Login : admin (Local Auth)	18 May 2020 07:96:47 PM	admin	10.200.210.3	Success	
Job Execution Status - Executed Scheduler (NM_FTP_Config_DB_Backup)	18 May 2020 07:92:50 PM	admin	localhost	Success	
Job Execution Status : Start Executing Scheduler (NM_FTP_Config_DB_Backup)	18 May, 2020 07:32:59 PM	admin	localhost	Success	
Scheduler Update : NM_FTP_Config_DB_Backup	18 May 2020 07:22:36 PM	admin	10.15.16.23	Success	
Job Execution Status : Executed Scheduler (NM_FTP_Config_DB_Backup)	18 May 2020 07:31:39 PM	admin	localhost	Success	
Job Execution Status : Start Executing Scheduler (HM, FTP, Config., DB, Backup)	16 May 2020 07:31:38 PM	iadmin	localhost	Success	
Scheduler Update : NM/_FTP_Config_DB_Backup	18 May 2020 07:31:33 PM	admin	10.16.16.23	Satora	
al metrio fip : Backup At Dystem Location Successful. System Location : /motadata/motadata/krish/. Backup Size : 440.32 KB	18 May. 2020 07:25:43 PM	admin	localhost	Success	
Id metrio ftp : FTP Backup Successful, FTP IP : 172.16.8.73. Backup Size : 440.32.48	18 May: 2020 07:25:43 PM	admin	localhost	Success	
Job Execution Status - Executed Scheduler ( <b>1d m</b> etric ftp)	18 Mag. 2020 07-25-07 PM	admin	localhost	Success	
Job Execution Status (Start Executing Scheduler I <mark>kd m</mark> etric hp)	18 May 2020 07:25:00 PM	admin	localhost	Success	
Job Execution Status : Executed Scheduler (NM_FTP_Config_DB_Backup)	18 Mey, 2020 07:21:29 PM	admin	locathost	Success	
Job Execution Status : Start Executing Scheduler (NM_FTP_Config_DB_Backup)	18 May 2020 07:21 26 PM	admin	localhost	Success	
Soheduler Oreste : NM_FTP_Config_DB_Backup	18 May 2020 07:21:20 PM	admin	10.15.16.23	Success	
Sofiedular Create <mark>kd m</mark> etrio ftp	18 May 2020 07 19:55 PM	admin	10.206.210.3	Success	
Scheduler Delete : kd inc ftp	18 May 2020 07 19 12 PM	admin	10.206.210.3	Success	
kd inc ftp : No partition found for scheduler request.	18 Mey, 2020 07-15-45 PM	Activate	e Witecalhost S	Faled	
In Second on Status, Second of School on Second a	18.0	Go to Set	tings to activat	e Windows.	



## 5. Archival Restoration

## a. Pre-requisite

- <u>ReportDBArchivalRestoration.sh</u><sup>®</sup> <u>restore-report-db-archival-1.0.jar</u><sup>®</sup> 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.

## b. 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

٢	=						Search Monitor	Q 🖪 🔁 🕢 Hi, admin 🕙
<b>%</b>					alhost_ARCHIVAL_RPD 4 tar	a/krish/	0:06:13	
¢8 1	audit	Jan, 2020	Apr, 2020	kd audit new	/2020-05-28_20:05_loc	/motadata/motadat		ð 🚍
雦					8.tar	dy Kitoliy		
4) (1)	audit	Jan, 2020	Apr, 2020	kd audit 2nd	/2020-05-28_20:10_loc alhost_ARCHIVAL_RPD 9.tar	/motadata/motadat a/krish		A 🗗
<b>\$</b>	audit	Jan, 2020	Apr, 2020	kd audit	/2020-05-28_19:20_loc alhost_ARCHIVAL_RPD 5.tar	/motadata/motadat a/krish		d 🗗
	audit	Apr, 2020	Apr, 2020	kd audit	/2020-05-28_19:30_loc alhost_ARCHIVAL_RPD 6.tar	/motadata/motadat a/krish		ð 🛱
	audit	Apr, 2020	Apr, 2020	kd audit	/2020-05-28_19:40_loc alhost_ARCHIVAL_RPD 7.tar	/motadata/motadat a/krish		ø A

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• Click on the Restore button as shown below.

$\mathbf{O}$							Search Monitor	Q 🖨 🔁 🌑 Hi, admin 🕑
<b>%</b> 40				alhost_ARCHIVAL_RPD 4.tar	a/krish/	0:06:13		
~~ ∮ ⊞	audit Jan, 202	0 Apr, 2020	kd audit new	/2020-05-28_20:05_loc alhost_ARCHIVAL_RPD 8.tar	/motadata/motadat a/krish/			# 🗗
එ ∎	audit Jan, 202	0 Apr, 2020	kd audit 2nd	/2020-05-28_20:10_loc alhost_ARCHIVAL_RPD 9.tar	/motadata/motadat a/krish			# =
Р Ф.	audit Jan, 202	0 Apr, 2020	kd audit	/2020-05-28_19:20_loc alhost_ARCHIVAL_RPD 5.tar	/motadata/motadat a/krish			ø A
	audit Apr, 2020	0 Apr, 2020	kd audit	/2020-05-28_19:30_loc alhost_ARCHIVAL_RPD 6.tar	/motadata/motadat a/krish			<b>A</b> ⊟
	audit Apr, 2020	0 Apr, 2020	kd audit	/2020-05-28_19:40_loc alhost_ARCHIVAL_RPD 7.tar	/motadata/motadat a/krish			d* 🗗

• 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)

							(	Search Monitor	Q 🖨 🗘	📄 Hi, admin 🕐
				alhost_ARCHIVAL_RPD	a/krish					
				5.tar						
audit	Apr, 2020	Apr, 2020	kd audit	/2020-05-28_19:30_loc	/motadata/motadat					A 🕞
				alhost_ARCHIVAL_RPD	a/krish					
				6.tar						
audit	Apr, 2020	Apr, 2020	kd audit	/2020-05-28_19:40_loc	/motadata/motadat					ø* 🖂
				alhost_ARCHIVAL_RPD	a/krish					
				7.tar						
audit	Jan, 2020	Apr, 2020	kd archival	/2020-05-29_14:24_loc	/motadata/motadat	Failed 20	20-05-29 1	File / Scrip	t not available	<i>s</i> →
				alhost_ARCHIVAL_RPD	a/krish		4:52:05			
				10.tar						
audit	Jan, 2020	Apr, 2020	kd archival	/2020-05-29_14:57_loc	/motadata/Clickho					ø 🗗
				alhost_ARCHIVAL_RPD	use-Store/CLICKHO					
				12.tar	USE-RESTORE					
audit	Apr, 2020	Apr, 2020	kd archival	/2020-05-29_15:01_loc	/motadata/Clickho					ar 🗔
				alhost_ARCHIVAL_RPD	use-Store/CLICKHO					
				13.tar	USE-RESTORE					
audit	Jan, 2020	Apr, 2020	kd archival	/2020-05-29_15:06_loc	/motadata/motadat	Success 20	20-05-29 1	Archival Restoration	completed successfully	💉 🖂
				alhost_ARCHIVAL_RPD	a/krish/		5:11:36			

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

	=						Search Monitor	Q 🖪 🔀 🖬 Hi, admin 🕚
¢\$					4.tar			
4	audit	Jan, 2020	Apr, 2020	kd audit new	/2020-05-28_20:05_loc alhost_ARCHIVAL_RPD	/motadata/motadat a/krish/		ø 🗗
Ⅲ ℃	audit	Jan, 2020	Apr, 2020	kd audit 2nd	2020-05-28_20:10_loc	/motadata/motadat		ø 🗗
					9.tar	W/MISH		
¢.	audit	Jan, 2020	Apr, 2020	kd audit	/2020-05-28_19:20_loc alhost_ARCHIVAL_RPD 5.tar	/motadata/motadat a/krish		
	audit	Apr, 2020	Apr, 2020	kd audit	/2020-05-28_19:30_loc alhost_ARCHIVAL_RPD 6.tar	/motadata/motadat a/krish		d 🖯
	audit	Apr, 2020	Apr, 2020	kd audit	/2020-05-28_19:40_loc alhost_ARCHIVAL_RPD	/motadata/motadat a/krish		ø 🖂

_	Backup/Restore/Archival SOP	
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• Now, update the location where the copied back-up is stored as shown below:

			Search Monitor Q 🖨 🖨 Hi, admin 😃
¢\$		Update Report DB Archival Restoration 🛛 🗶	
4	audit Jan, 2020 Apr, 2020 kd audit new	Archival Restoration Location	
<b>#</b>		ß	
ඵ	audit Jan, 2020 Apr, 2020 kd audit 2nd	_	1 🖻
Ê		Update	
Y	audit Jan, 2020 Apr, 2020 kd audit	/2020-05-28_19:20_loc /motadata/motadat	88
•		alhost_ARCHIVAL_RPD a/krish 5.tar	
	audit Apr, 2020 Apr, 2020 kd audit	/2020-05-28_19:30_loc /motadata/motadat alhost_ARCHIVAL_RPD a/krish	<b>/</b> 8

- 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.

# CONNECT WITH US



www.motadata.com

support@motadata.com

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