

HA over WAN

Motadata

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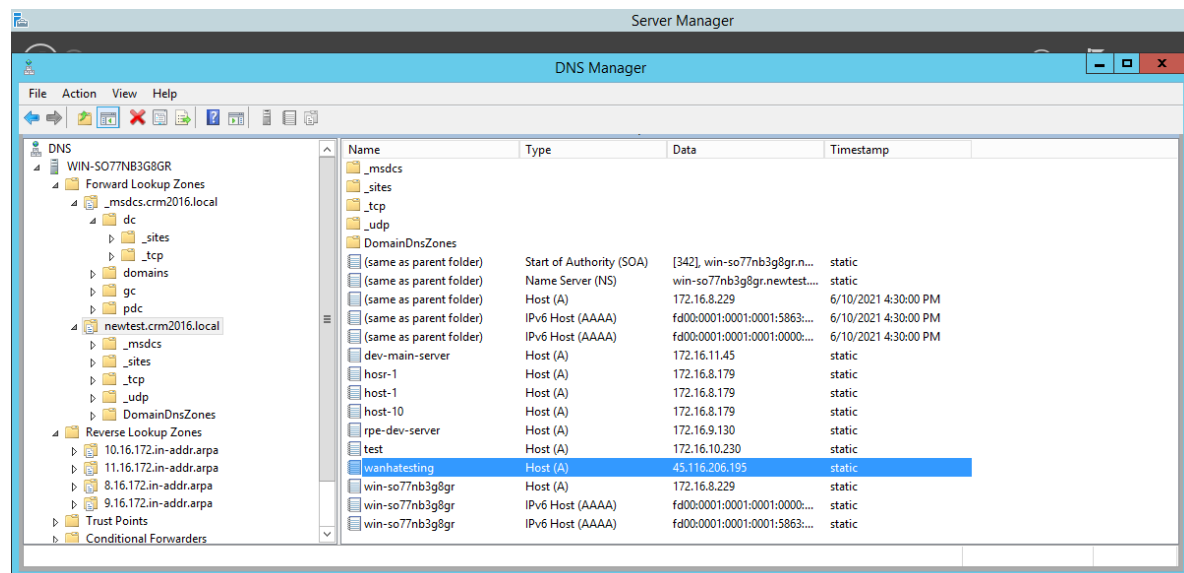
1 HA over WAN – Single Box

Configuration Steps

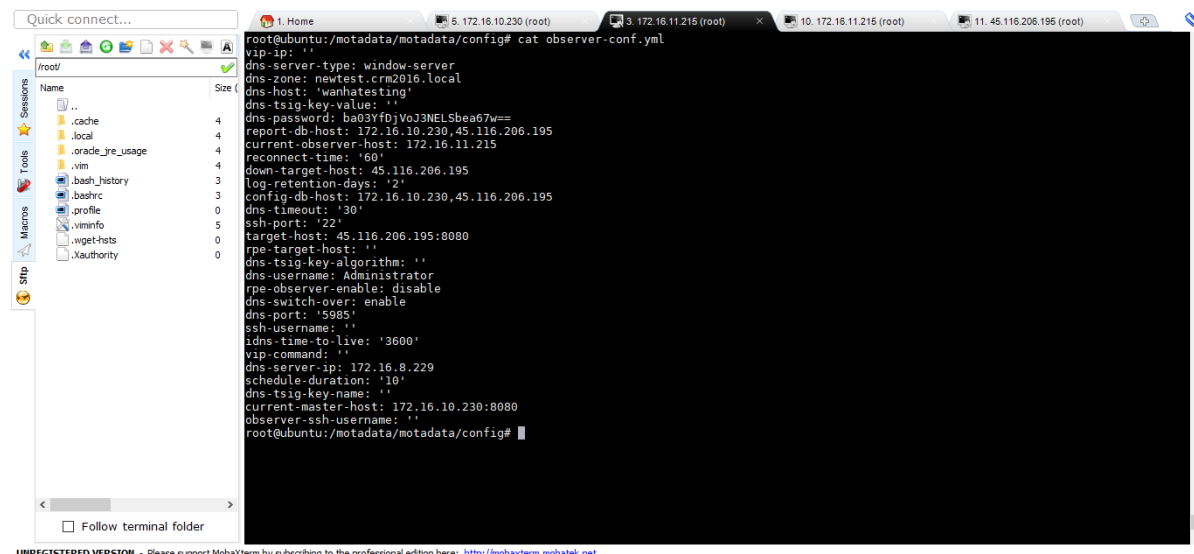
Step 1: Perform the normal HA Configuration.

Step 2: Install the python3.7 in observer if not present and copy site-packages from master server, with path *'/usr/local/lib/python3.7/site-packages'* to observer server.

Step 3: Zone and Host name must be entered in DNS manager with FQDN as shown below:



Step 4: Once all the above Configuration is done, you need to Configure **observer-conf.yml** in Observer machine, which is in */motadata/motadata/config* folder for Windows. DNS.



Below parameters need to be added for Window DNS WAN HA in observer Conf:

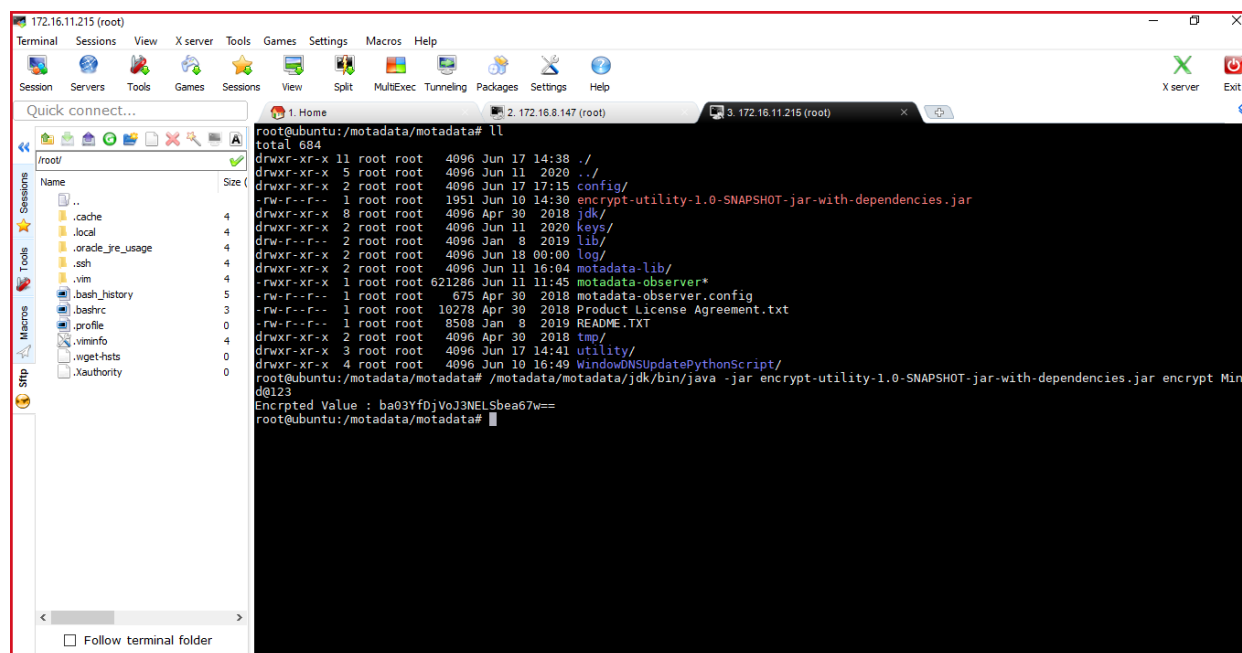
- dns-server-ip: 172.16.8.229

- dns-server-type: 'window-server'
- dns-timeout: 30
- dns-zone: newtest.crm2016.local
- dns-host: wanhatesting
- dns-username: Administrator
- dns-switch-over: enable (enable - switch over using dns, disable - switch over using vip, default value - disable)
- dns-password: ba03YfDjVoJ3NELSbea67w==
- dns-port: default - 5985 [5985 - *http* , 5986 - *https*]

Note: (For encryption and Decryption you need to put Utility (encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar) in /motadata/motadata.)

Command to encrypt password

/motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar encrypt Mind@123



```

root@ubuntu:/motadata/motadata# ll
total 684
drwxr-xr-x 11 root root 4096 Jun 17 14:38 ./
drwxr-xr-x  5 root root 4096 Jun 11 2020 ../
drwxr-xr-x  2 root root 4096 Jun 17 17:15 config/
-rw-r--r--  1 root root 1951 Jun 10 14:30 encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar
drwxr-xr-x  8 root root 4096 Apr 30 2018 jdk/
drwxr-xr-x  2 root root 4096 Jun 11 2020 keys/
drw-r--r--  2 root root 4096 Jan  8 2019 lib/
drwxr-xr-x  2 root root 4096 Jun 18 00:00 log/
drwxr-xr-x  2 root root 4096 Jun 11 16:04 motadata-lib/
-rwxr-xr-x  1 root root 621286 Jun 11 11:45 motadata-observer*
-rw-r--r--  1 root root  675 Apr 30 2018 motadata-observer.config
-rw-r--r--  1 root root 10278 Apr 30 2018 Product License Agreement.txt
-rw-r--r--  1 root root  8508 Jan  8 2019 README.TXT
drwxr-xr-x  2 root root 4096 Apr 30 2018 tmp/
drwxr-xr-x  3 root root 4096 Jun 17 14:41 utility/
drwxr-xr-x  4 root root 4096 Jun 10 16:49 WindowNSUpdatePythonScript/
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar encrypt Mind@123
Encrypted Value : ba03YfDjVoJ3NELSbea67w==
root@ubuntu:/motadata/motadata#

```

Command to decrypt password

/motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba03YfDjVoJ3NELSbea67w==

```

root@ubuntu:/motadata/motadata# ll
total 684
drwxr-xr-x 11 root root 4096 Jun 17 14:38 ./
drwxr-xr-x 5 root root 4096 Jun 11 2020 ../
drwxr-xr-x 2 root root 4096 Jun 17 17:15 config/
-rw-r--r-- 1 root root 1951 Jun 10 14:30 encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar
drwxr-xr-x 8 root root 4096 Apr 30 2018 jdk/
drwxr-xr-x 2 root root 4096 Jun 11 2020 keys/
drw-r--r-- 2 root root 4096 Jan 8 2019 lib/
drwxr-xr-x 2 root root 4096 Jun 18 00:00 log/
drwxr-xr-x 2 root root 4096 Jun 11 16:04 motadata-lib/
-rwxr-xr-x 1 root root 621286 Jun 11 11:45 motadata-observer*
-rw-r--r-- 1 root root 675 Apr 30 2018 motadata-observer.config
-rw-r--r-- 1 root root 10278 Apr 30 2018 Product License Agreement.txt
-rw-r--r-- 1 root root 8508 Jan 8 2019 README.TXT
drwxr-xr-x 2 root root 4096 Apr 30 2018 tmp/
drwxr-xr-x 3 root root 4096 Jun 17 14:41 utility/
drwxr-xr-x 4 root root 4096 Jun 10 16:49 WindowDNSUpdatePythonScript/
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar encrypt Mind@123
Encrypted Value : ba03YfdjVoJ3NELSbea67w==
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba03YfdjVoJ3NELSbea67w==
Decrypted Value : Mind@123
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba03YfdjVoJ3NELSbea67w==/motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba03YfdjVoJ3NELSbea67w==

```

Step 5: Once all Setup is done, you can verify the utility using below:

- Put the WindowDNSUpdatePythonScript at /motadata/motadata in observer.

```

root@ubuntu:/motadata/motadata# ll
total 684
drwxr-xr-x 11 root root 4096 Jun 17 14:38 ./
drwxr-xr-x 5 root root 4096 Jun 11 2020 ../
drwxr-xr-x 2 root root 4096 Jun 17 17:15 config/
-rw-r--r-- 1 root root 1951 Jun 10 14:30 encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar
drwxr-xr-x 8 root root 4096 Apr 30 2018 jdk/
drwxr-xr-x 2 root root 4096 Jun 11 2020 keys/
drw-r--r-- 2 root root 4096 Jan 8 2019 lib/
drwxr-xr-x 2 root root 4096 Jun 18 00:00 log/
drwxr-xr-x 2 root root 4096 Jun 11 16:04 motadata-lib/
-rwxr-xr-x 1 root root 621286 Jun 11 11:45 motadata-observer*
-rw-r--r-- 1 root root 675 Apr 30 2018 motadata-observer.config
-rw-r--r-- 1 root root 10278 Apr 30 2018 Product License Agreement.txt
-rw-r--r-- 1 root root 8508 Jan 8 2019 README.TXT
drwxr-xr-x 2 root root 4096 Apr 30 2018 tmp/
drwxr-xr-x 3 root root 4096 Jun 17 14:41 utility/
drwxr-xr-x 4 root root 4096 Jun 10 16:49 WindowDNSUpdatePythonScript/
root@ubuntu:/motadata/motadata#

```

- Prepare the json with below details:

```
{
  "dns-timeout": 30,
  "dns-server-ip": "172.16.8.229",
  "dns-domain": "wanhatesting",
  "replace-with-ip": "172.16.10.230",
  "dns-time-to-live": 3600,
  "dns-zone": "newtest.crm2016.local",
  "dns-username": "Administrator",
  "dns-password": "Mind@123",
  "dns-port": 5985
}
```

Note - To run windows script, password must be in plain text.

- Then, Encode the above json using <https://www.base64encode.org/>

- The output will be as shown below:

```
eyAiZG5zLXRpbWVvdXQlOiAzMCwglmRucylzZXJ2ZXItaXAiOiAiMTcyLjE2LjguMjI5liwglmRucyl
kb2lhaW4iOiAidGVzdCIsICJyZXBsYWNlXdpdGgtaXAiOiAiMTcyLjE2LjEwLjIzMCIsICJkbmMtdG
ltZS10bylsaXZlIjogMzYwMCwglmRucyl6b25lIjogIm5ld3Rlc3QuY3JtMjAxNi5sb2NhbCIsICJkb
nMtdXNlcm5hbWUiOiAiQWRtaW5pc3RyYXRvcilsICJkbmMtcGFzc3dvcmQlOiAiTWluZEAxMjMi
LCJkbmMtcG9ydCI6NTk4NX0=
```

- Execute below command in
motadata/motadata/WidowsDNSUpdatePythonScriptUpdate

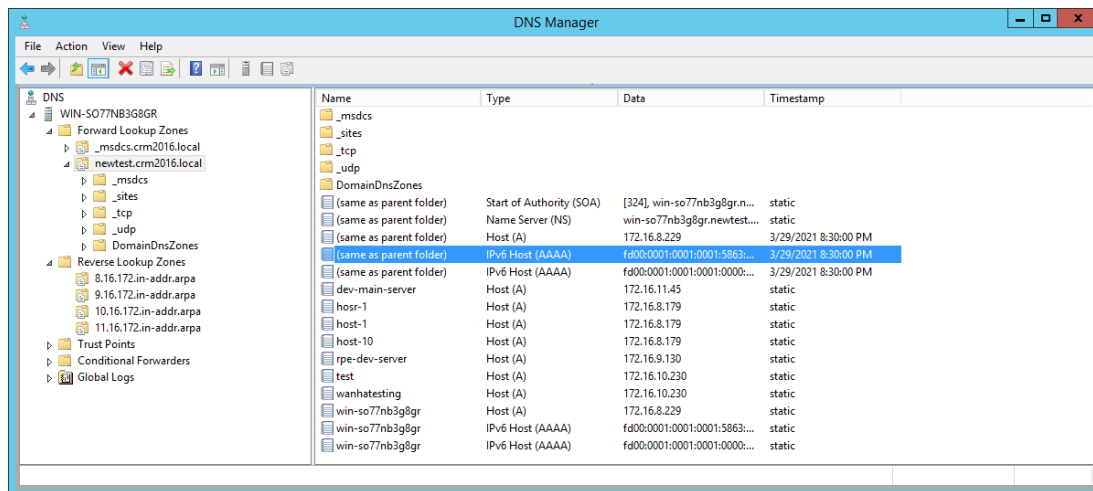
python3.7 winrmdnsutility.py

The output will be as below:

```
root@ubuntu:/motadata/motadata/WindowDNSUpdatePythonScript# python3.7 winrmdnsutility.py eyAiZG5zLXRpbWVvdXQlOiAzMCwglmRucylzZXJ2ZXItaXAiOiAiMTcyLjE2LjguMjI5liwglmRucylkb2lhaW4iOiAidGVzdCIsICJyZXBsYWNlXdpdGgtaXAiOiAiMTcyLjE2LjEwLjIzMCIsICJkbmMtdGltZS10bylsaXZlIjogMzYwMCwglmRucyl6b25lIjogIm5ld3Rlc3QuY3JtMjAxNi5sb2NhbCIsICJkbMtdXNlcm5hbWUiOiAiQWRtaW5pc3RyYXRvcilsICJkbmMtcGFzc3dvcmQlOiAiTWluZEAxMjMiLCJkbmMtcG9ydCI6NTk4NX0=
{"result": "success", "error-message": ""}
root@ubuntu:/motadata/motadata/WindowDNSUpdatePythonScript#
```

Step 6: Once you are successfully done with the process, the Fail Over DNS Entry will be updated. Here, it will directly reflect in mail as well as Audit Log as shown below:

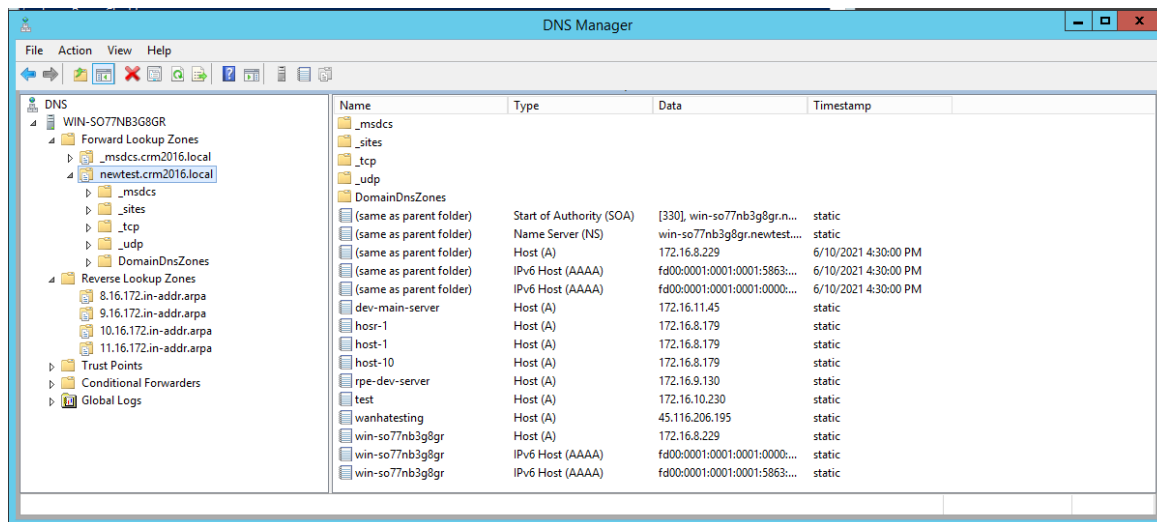
OLD DNS Entry:



The screenshot shows the DNS Manager console for the server WIN-SO77NB3G8GR. The left pane shows the hierarchy: Forward Lookup Zones > _msdcs.crm2016.local > newtest.crm2016.local > _msdcs > wanhatesting. The right pane shows the details of the wanhatesting entry.

Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
_udp			
DomainDnsZones			
(same as parent folder)	Start of Authority (SOA)	[324], win-so77nb3g8gr.n...	static
(same as parent folder)	Name Server (NS)	win-so77nb3g8gr.newtest...	static
(same as parent folder)	Host (A)	172.16.8.229	3/29/2021 8:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:5863:...	3/29/2021 8:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:...	3/29/2021 8:30:00 PM
dev-main-server	Host (A)	172.16.11.45	static
hosr-1	Host (A)	172.16.8.179	static
host-1	Host (A)	172.16.8.179	static
host-10	Host (A)	172.16.8.179	static
rpe-dev-server	Host (A)	172.16.9.130	static
test	Host (A)	172.16.10.230	static
wanhatesting	Host (A)	172.16.10.230	static
win-so77nb3g8gr	Host (A)	172.16.8.229	static
win-so77nb3g8gr	IPv6 Host (AAAA)	fd00:0001:0001:0001:5863:...	static
win-so77nb3g8gr	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:...	static

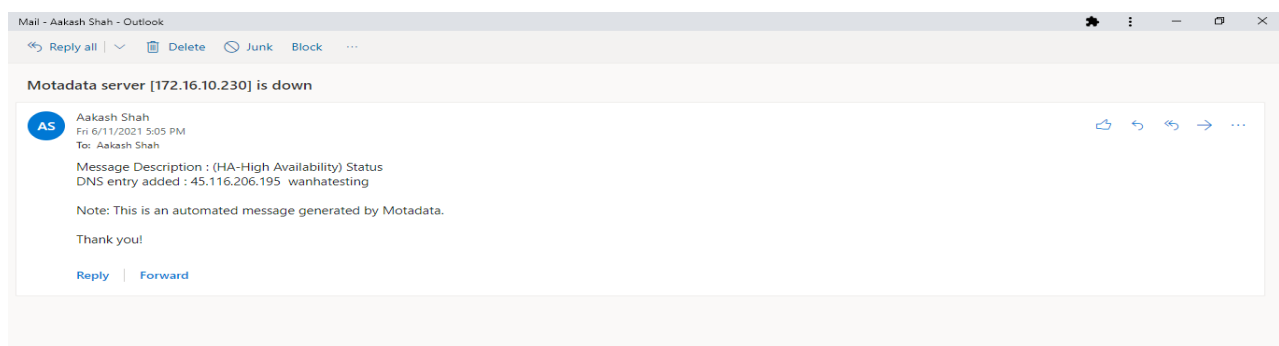
After Fail over DNS Entry:

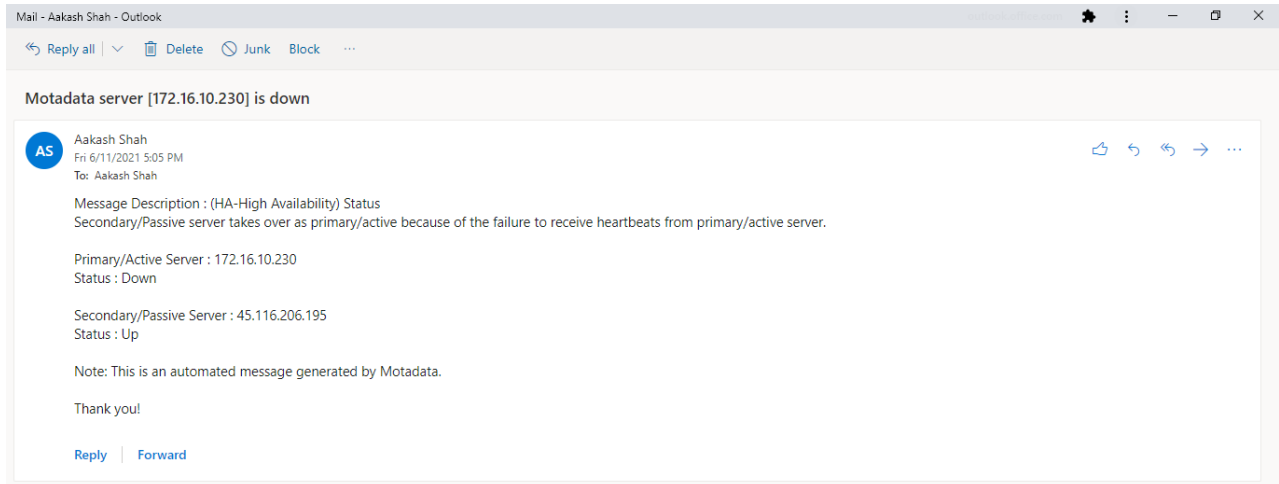


The screenshot shows the DNS Manager console after a failover. The left pane shows the hierarchy: Forward Lookup Zones > _msdcs.crm2016.local > newtest.crm2016.local > _msdcs > wanhatesting. The right pane shows the details of the wanhatesting entry.

Name	Type	Data	Timestamp
_msdcs			
_sites			
_tcp			
_udp			
DomainDnsZones			
(same as parent folder)	Start of Authority (SOA)	[330], win-so77nb3g8gr.n...	static
(same as parent folder)	Name Server (NS)	win-so77nb3g8gr.newtest...	static
(same as parent folder)	Host (A)	172.16.8.229	6/10/2021 4:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:5863:...	6/10/2021 4:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:...	6/10/2021 4:30:00 PM
dev-main-server	Host (A)	172.16.11.45	static
hosr-1	Host (A)	172.16.8.179	static
host-1	Host (A)	172.16.8.179	static
host-10	Host (A)	172.16.8.179	static
rpe-dev-server	Host (A)	172.16.9.130	static
test	Host (A)	172.16.10.230	static
wanhatesting	Host (A)	45.116.206.195	static
win-so77nb3g8gr	Host (A)	172.16.8.229	static
win-so77nb3g8gr	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:...	static
win-so77nb3g8gr	IPv6 Host (AAAA)	fd00:0001:0001:0001:5863:...	static

1.1 Notification via E-mail





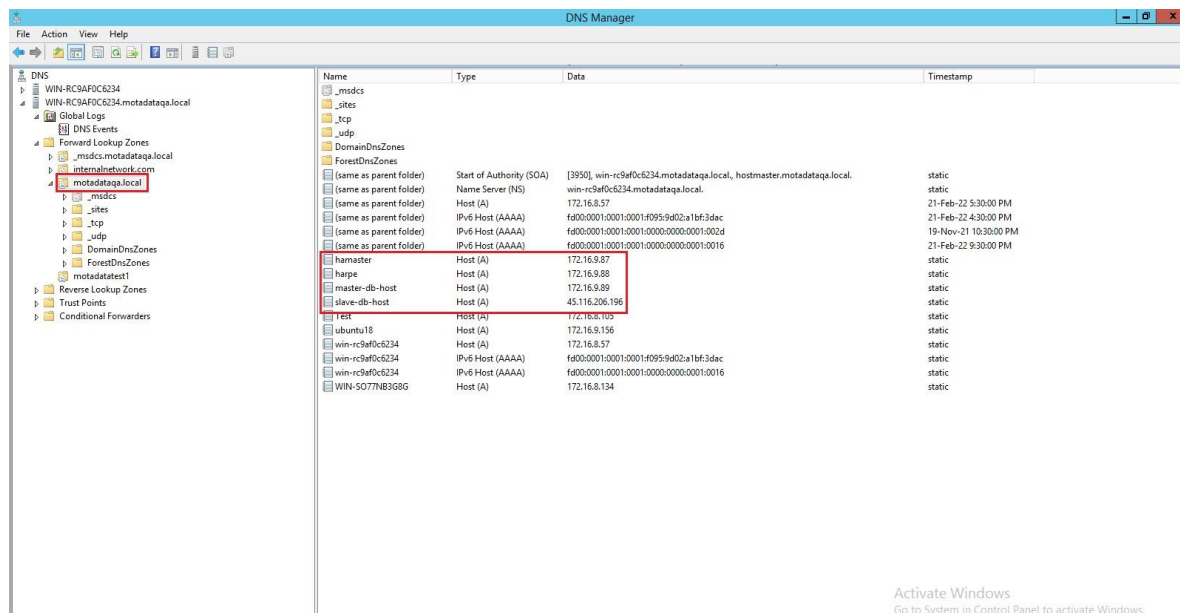
1.2 Notification in Audit Log

Message	Time	User	Remote Host	Status
User Login : admin (Local Auth)	11 Jun, 2021 05:26:47 PM	admin	106.76.81.229	Success
User Login : admin (Local Auth)	11 Jun, 2021 05:26:43 PM	admin	106.76.81.229	Failed
Observer Audit : DNS entry added : 45.116.206.195 wanhatesting	11 Jun, 2021 05:04:59 PM	admin	172.16.11.215	Success
Observer Audit : Process started to changes cluster master on host [45.116.206.195]	11 Jun, 2021 05:04:59 PM	admin	172.16.11.215	Success
Observer Audit : Email notification attempted for the down host [172.16.10.230]	11 Jun, 2021 05:04:59 PM	admin	172.16.11.215	Success
Observer Audit : Started motadata service on the host [45.116.206.195]	11 Jun, 2021 05:04:59 PM	admin	172.16.11.215	Success
Observer Audit : Can not start motadata cluster service on the host [45.116.206.195]	11 Jun, 2021 05:04:57 PM	admin	172.16.11.215	Success
Observer Audit : Can not start motadata cluster service on the host [45.116.206.195]	11 Jun, 2021 05:04:27 PM	admin	172.16.11.215	Success
User Login : admin (Local Auth)	11 Jun, 2021 04:09:45 PM	admin	106.76.81.229	Success
Observer Audit : Motadata cluster service started on the host [172.16.10.230]	11 Jun, 2021 04:08:57 PM	admin	172.16.11.215	Success
Showing 1 to 10 of 12 entries				First Previous 1 2 Next Last

2 HA over WAN- Distributed Server

2.1 Configuration Steps for Master

1. Normal RPE-HA Configuration must be done without VIP.
2. Also have to install python3.7 in observer if not present and copy site-packages from master server from path '/usr/local/lib/python3.7/site-packages' to observer.
3. One Zone and Different Host name of Active Master, Active RPE and both datanode(Master and Slave) must be Inserted in DNS manager with FQDN.



(1) Connect to Active Master and open /motadata/motadata/config/rpe-conf.yml and do the following entries to the parameters:

- a. host: hamaster (Host Same as in DNS Manager)

- f. dns-switch-over: enable
- g. (enable – switch over using dns, disable – switch over using vip,default value – disable)
- h. dns-port: '5985'
- i. dns-server-ip: 172.16.8.57
- j. dns-username: Administrator
- k. dns-password: i7opuYmLOd79FHMvYnNqsA==

(For encryption and Decryption you need to put Utility (encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar) in /motadata/motadata.) – Utility is attached in JIRA-5326

Command to encrypt password - /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar encrypt Mind@123

```
root@ubuntu:/motadata/motadata# ll
total 684
drwxr-xr-x 11 root root 4096 Jun 17 14:38 ./
drwxr-xr-x 5 root root 4096 Jun 11 2020 ../
drwxr-xr-x 2 root root 4096 Jun 17 17:15 config/
-rw-r--r-- 1 root root 1951 Jun 10 14:30 encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar
drwxr-xr-x 8 root root 4096 Apr 30 2018 jdk/
drwxr-xr-x 2 root root 4096 Jun 11 2020 keys/
drw-r--r-- 2 root root 4096 Jan 8 2019 lib/
drwxr-xr-x 2 root root 4096 Jun 18 00:00 log/
drwxr-xr-x 2 root root 4096 Jun 11 16:04 motadata-lib/
-rwxr-xr-x 1 root root 621286 Jun 11 11:45 motadata-observer*
-rw-r--r-- 1 root root 675 Apr 30 2018 motadata-observer.config
-rw-r--r-- 1 root root 10278 Apr 30 2018 Product License Agreement.txt
-rw-r--r-- 1 root root 8508 Jan 8 2019 README.TXT
drwxr-xr-x 2 root root 4096 Apr 30 2018 tmp/
drwxr-xr-x 3 root root 4096 Jun 17 14:41 utility/
drwxr-xr-x 4 root root 4096 Jun 10 16:49 WindowDNSUpdatePythonScript/
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar encrypt Mind@123
Encrypted Value : ba03YfDjVoJ3NELSbea67w==
root@ubuntu:/motadata/motadata#
```


Command to decrypt password - /motadata/motadata/jdk/bin/java -
jarencrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt
ba03YfDjVoJ3NELSbea67w==

```
root@ubuntu:/motadata/motadata# ll
total 684
drwxr-xr-x 11 root root 4096 Jun 17 14:38 ./
drwxr-xr-x 5 root root 4096 Jun 11 2020 ../
drwxr-xr-x 2 root root 4096 Jun 17 17:15 config/
-rw-r--r-- 1 root root 1951 Jun 10 14:30 encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar
drwxr-xr-x 8 root root 4096 Apr 30 2018 jdk/
drwxr-xr-x 2 root root 4096 Jun 11 2020 keys/
drw-r--r-- 2 root root 4096 Jan 8 2019 lib/
drwxr-xr-x 2 root root 4096 Jun 18 00:00 log/
drwxr-xr-x 2 root root 4096 Jun 11 16:04 motadata-lib/
-rwxr-xr-x 1 root root 621286 Jun 11 11:45 motadata-observer*
-rw-r--r-- 1 root root 675 Apr 30 2018 motadata-observer.config
-rw-r--r-- 1 root root 10278 Apr 30 2018 Product License Agreement.txt
-rw-r--r-- 1 root root 8508 Jan 8 2019 README.TXT
drwxr-xr-x 2 root root 4096 Apr 30 2018 tmp/
drwxr-xr-x 3 root root 4096 Jun 17 14:41 utility/
drwxr-xr-x 4 root root 4096 Jun 10 16:49 WindowDNSUpdatePythonScript/
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar encrypt Mi
d@123
Encrypted Value : ba03YfDjVoJ3NELSbea67w==
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba
03YfDjVoJ3NELSbea67w==
Decrypted Value : Mind@123
root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba
03YfDjVoJ3NELSbea67w==/motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba03YfDjVoJ3N
LSbea67w==
```

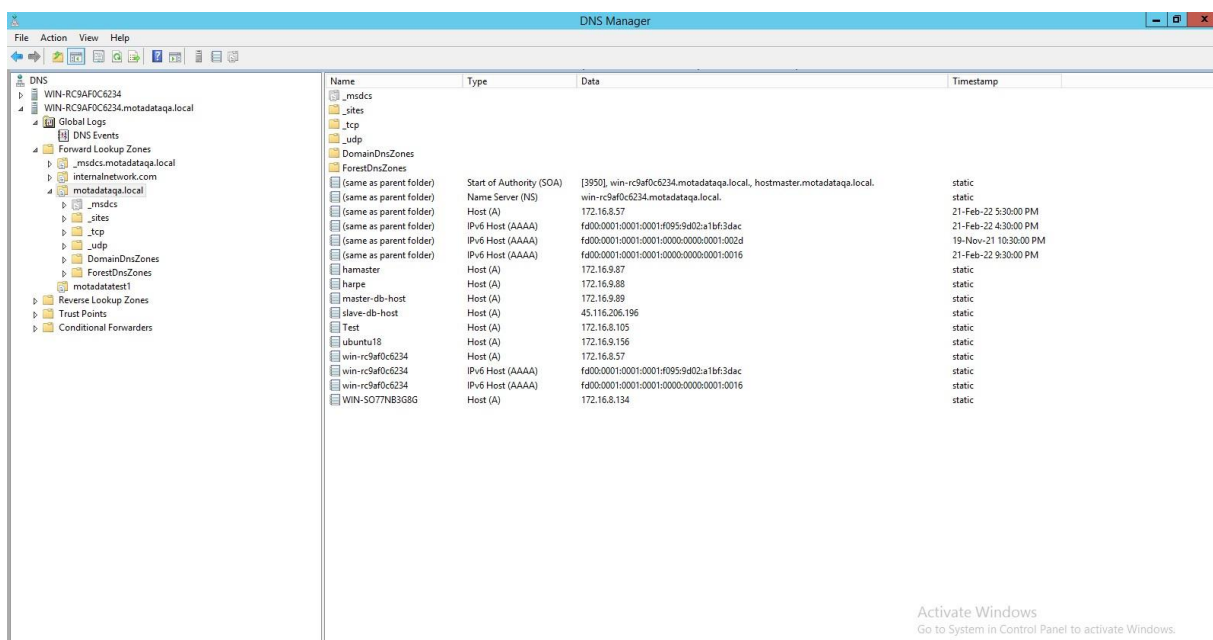
(4) Once all Setup is done you can check that set up is properly done with utility with below step.

Put the WindowDNSUpdatePythonScript at /motadata/motadata inobserver.

```
root@ubuntu:/motadata/motadata# ll
total 684
drwxr-xr-x 11 root root 4096 Jun 17 14:38 ./
drwxr-xr-x 5 root root 4096 Jun 11 2020 ../
drwxr-xr-x 2 root root 4096 Jun 17 17:15 config/
-rw-r--r-- 1 root root 1951 Jun 10 14:30 encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar
drwxr-xr-x 8 root root 4096 Apr 30 2018 jdk/
drwxr-xr-x 2 root root 4096 Jun 11 2020 keys/
drw-r--r-- 2 root root 4096 Jan 8 2019 lib/
drwxr-xr-x 2 root root 4096 Jun 18 00:00 log/
drwxr-xr-x 2 root root 4096 Jun 11 16:04 motadata-lib/
-rwxr-xr-x 1 root root 621286 Jun 11 11:45 motadata-observer*
-rw-r--r-- 1 root root 675 Apr 30 2018 motadata-observer.config
-rw-r--r-- 1 root root 10278 Apr 30 2018 Product License Agreement.txt
-rw-r--r-- 1 root root 8508 Jan 8 2019 README.TXT
drwxr-xr-x 2 root root 4096 Apr 30 2018 tmp/
drwxr-xr-x 3 root root 4096 Jun 17 14:41 utility/
drwxr-xr-x 4 root root 4096 Jun 10 16:49 WindowDNSUpdatePythonScript/
root@ubuntu:/motadata/motadata#
```

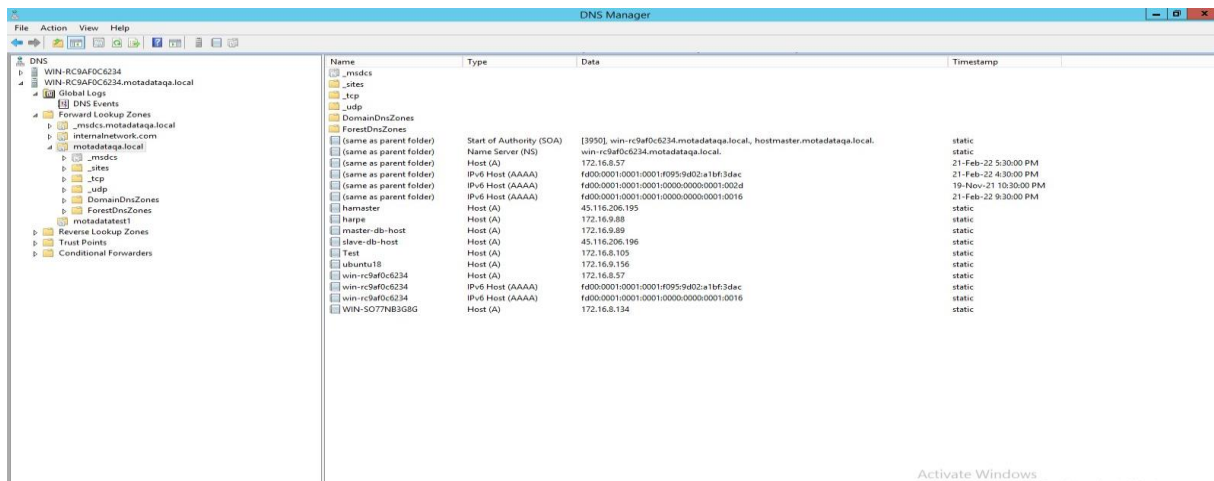
(You will get WindowDNSUpdatePythonScript from GIT.)

OLD DNS Entry:



Name	Type	Data	Timestamp
(same as parent folder)	Start of Authority (SOA)	[3950], win-r9af0c6234.motadataqa.local, hostmaster.motadataqa.local.	static
(same as parent folder)	Name Server (NS)	win-r9af0c6234.motadataqa.local.	static
(same as parent folder)	Host (A)	172.16.8.57	21-Feb-22 5:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0995:9402:a1bf:3dec	21-Feb-22 4:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:0000:0001:002d	19-Nov-21 10:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:0000:0001:0016	21-Feb-22 9:30:00 PM
hamster	Host (A)	172.16.9.87	static
harpe	Host (A)	172.16.9.88	static
master-db-host	Host (A)	172.16.9.89	static
slave-db-host	Host (A)	45.116.206.196	static
Test	Host (A)	172.16.8.105	static
ubuntu18	Host (A)	172.16.9.156	static
win-r9af0c6234	Host (A)	172.16.8.57	static
win-r9af0c6234	IPv6 Host (AAAA)	fd00:0001:0001:0001:0995:9402:a1bf:3dec	static
win-r9af0c6234	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:0000:0001:0016	static
WIN-S077N83G8G	Host (A)	172.16.8.134	static


After Fail over DNS Entry:



Name	Type	Data	Timestamp
(same as parent folder)	Start of Authority (SOA)	[3950], win-r9af0c6234.motadataqa.local, hostmaster.motadataqa.local.	static
(same as parent folder)	Name Server (NS)	win-r9af0c6234.motadataqa.local.	static
(same as parent folder)	Host (A)	172.16.8.57	21-Feb-22 5:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0995:9402:a1bf:3dec	21-Feb-22 4:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:0000:0001:002d	19-Nov-21 10:30:00 PM
(same as parent folder)	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:0000:0001:0016	21-Feb-22 9:30:00 PM
hamster	Host (A)	45.116.206.195	static
harpe	Host (A)	172.16.9.88	static
master-db-host	Host (A)	172.16.9.89	static
slave-db-host	Host (A)	45.116.206.196	static
Test	Host (A)	172.16.8.105	static
ubuntu18	Host (A)	172.16.9.156	static
win-r9af0c6234	Host (A)	172.16.8.57	static
win-r9af0c6234	IPv6 Host (AAAA)	fd00:0001:0001:0001:0995:9402:a1bf:3dec	static
win-r9af0c6234	IPv6 Host (AAAA)	fd00:0001:0001:0001:0000:0000:0001:0016	static
WIN-S077N83G8G	Host (A)	172.16.8.134	static

Notification through Mail:

1. Motadata server [172.16.9.87] is down

 motadata.qa@gmail.com
Thu 24-02-2022 11:33
To: Ritvik Chouhan







Message Description : (HA-High Availability) Status
Secondary/Passive server takes over as primary/active because of the failure to receive heartbeats from primary/active server.

Primary/Active Server : 172.16.9.87
Status : Down


Secondary/Passive Server : 45.116.206.195
Status : Up

Note: This is an automated message generated by Motadata.

Thank you!







2. DNS Master switch-over Entry

 motadata.qa@gmail.com
Thu 24-02-2022 11:33
To: Ritvik Chouhan

Message Description : (HA-High Availability) Status
DNS entry added : 45.116.206.195 hamaster

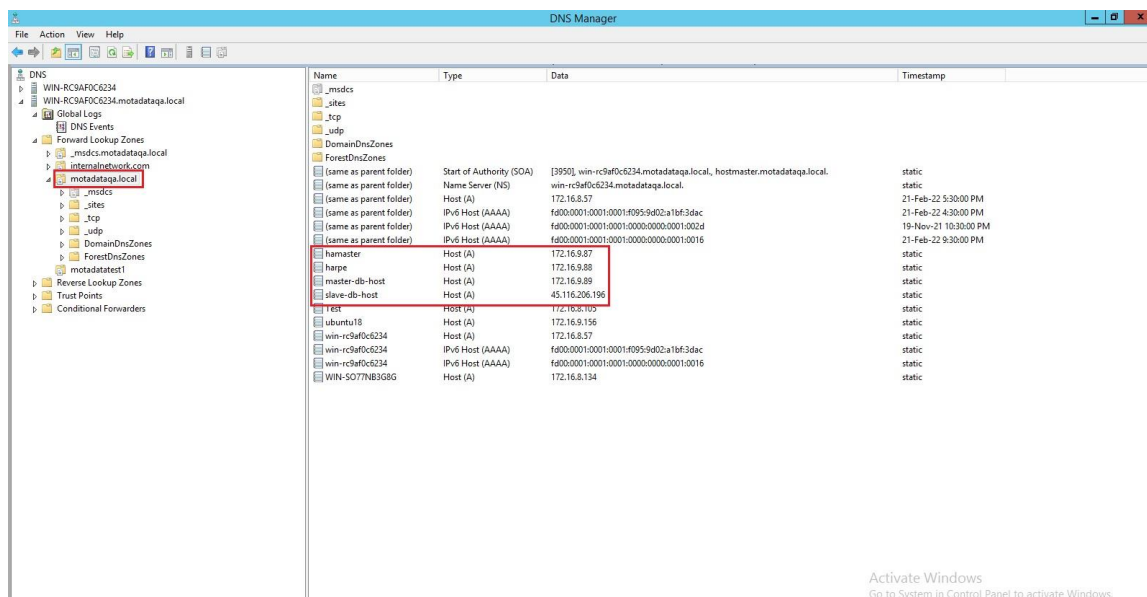
Note: This is an automated message generated by Motadata.

Thank you!

3 Configuration Steps for Datanode

(1) Add both Datanode host to the same zone as master.



- ```
#https rpe master host
host: hamaster

#https rpe master server port
port: 443

#rpe client host
rpe-host: harpe

#reconnection time in seconds used to try for connection after disconnection from master server
reconnect-time: 30

#disconnection duration in hours, Must be between 1-24,default is 1
disconnect-duration: 1

#certificate file name, used to communicate between rpe master and client
certificate-file-name: keystore.jks

#used to consider rpe-client goes offline. value should be 1-60(minutes), default is 10.
rpe-status-duration: 10
rpe-physical-address: 172.16.9.88
```
- "motadata/motadata/config/rpe-conf.yml" 21L, 580C

- (3) Connect to standby RPE and open `/motadata/motadata/config/rpe-conf.yml` and do the following entries.
  - a. `host: hamaster` (DNS master hostname)
  - b. `rpe-host: harpe` (DNS rpe hostname)
  - c. `rpe-physical-address: 45.116.206.197` (ip of the standby rpe)

- dns-server-type: window-server
- dns-username: Administrator
- dns-zone: motadataqa.local
- rpe-dns-host: harpe
- dns-password: i7opuYmLOd79FHMvYnNqsA==
- dns-port: '5985'
- dns-server-ip: 172.16.8.57
- dns-time-to-live: '3600'
- current-master-host: hamaster

```

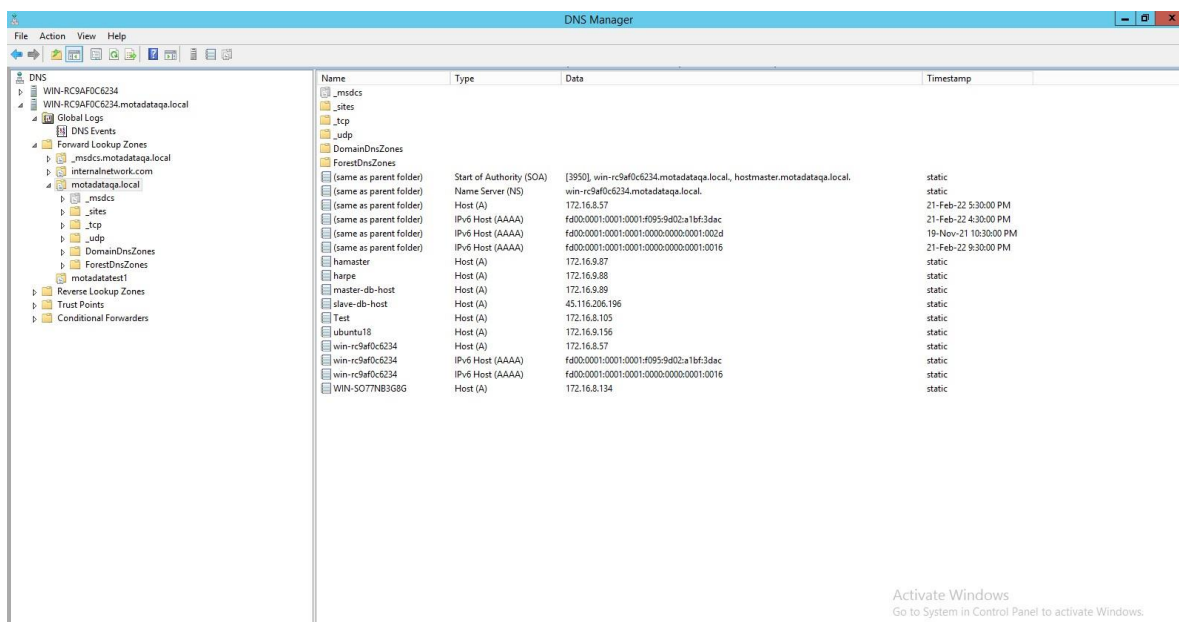
dns-server-type: window-server
rpe-host-vips: ''
dns-username: Administrator
dns-zone: motadataqa.local
max-rpe-ping-check-timeout: '3'
rpe-dns-host: harpe
rpe-current-hosts: 172.16.9.88-ens160
rpe-schedule-duration: '10'
dns-tsig-key-value: ''
dns-password: i7OpuYmL0d79FHMVYnNqsA==
reconnect-time: '30'
dns-port: '5985'
down-target-host: ''
dns-server-ip: 172.16.8.57
rpe-target-hosts: 45.116.206.197-ens160
dns-tsig-key-name: ''
dns-time-to-live: '3600'
max-rpe-ping-check-retry-count: '3'
dns-timeout: '30'
current-master-host: hamaster
certificate-file-name: keystore.jks
dns-tsig-key-algorithm: ''

```

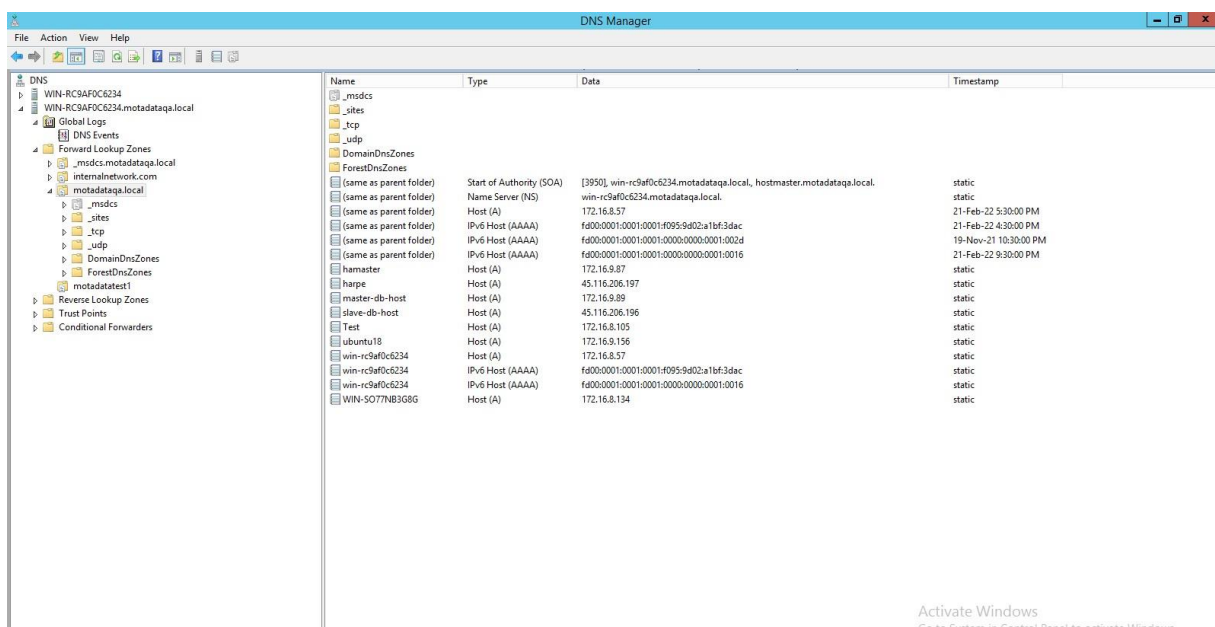
(5) Now Simply Done the Process of Fail Over for RPE.

(6) Once you successfully Done the Fail Over DNS Entry will be updated and you will get in mail as well as Audit Log.

OLD DNS Entry:



After Fail Over DNS Entry:





## 1. Motadata RPE server [172.16.9.88] is down

**M** motadata.qa@gmail.com  
Thu 24-02-2022 11:33  
To: Ritvik Chouhan

Message Description : (HA-High Availability) Status  
Secondary/Passive server takes over as primary/active because of the failure to receive heartbeats from primary/active server.

Primary/Active Server : 172.16.9.88  
Status : Down

Secondary/Passive Server : 45.116.206.197  
Status : Up  
TimeStamp for Operation : 2022-02-24 11:33:51

Note: This is an automated message generated by Motadata.

Thank you!








## 2. DNS RPE-Master switch-over Entry

**M** motadata.qa@gmail.com  
Thu 24-02-2022 11:34  
To: Ritvik Chouhan

DNS entry added : 45.116.206.197 harpe








## Notification In Audit Log.

|                                                                                     |                          |       |              |         |
|-------------------------------------------------------------------------------------|--------------------------|-------|--------------|---------|
| Observer Audit : Service Started on RPE : 45.116.206.197                            | 24 Feb, 2022 11:33:59 AM | admin | 172.16.9.126 | Success |
| Observer Audit : RPE [172.16.9.88] switched-over to ->45.116.206.197                | 24 Feb, 2022 11:33:51 AM | admin | 172.16.9.126 | Success |
| Observer Audit : DNS entry added : 45.116.206.197 harpe                             | 24 Feb, 2022 11:33:51 AM | admin | 172.16.9.126 | Success |
| Observer Audit : Started motadata service on the host [45.116.206.195]              | 24 Feb, 2022 11:33:27 AM | admin | 172.16.9.126 | Success |
| Observer Audit : Process started to changes cluster master on host [45.116.206.195] | 24 Feb, 2022 11:33:27 AM | admin | 172.16.9.126 | Success |
| Observer Audit : DNS entry added : 45.116.206.195 hamaster                          | 24 Feb, 2022 11:33:27 AM | admin | 172.16.9.126 | Success |

## 5 HA Over WAN in BIND (Linux) SERVER

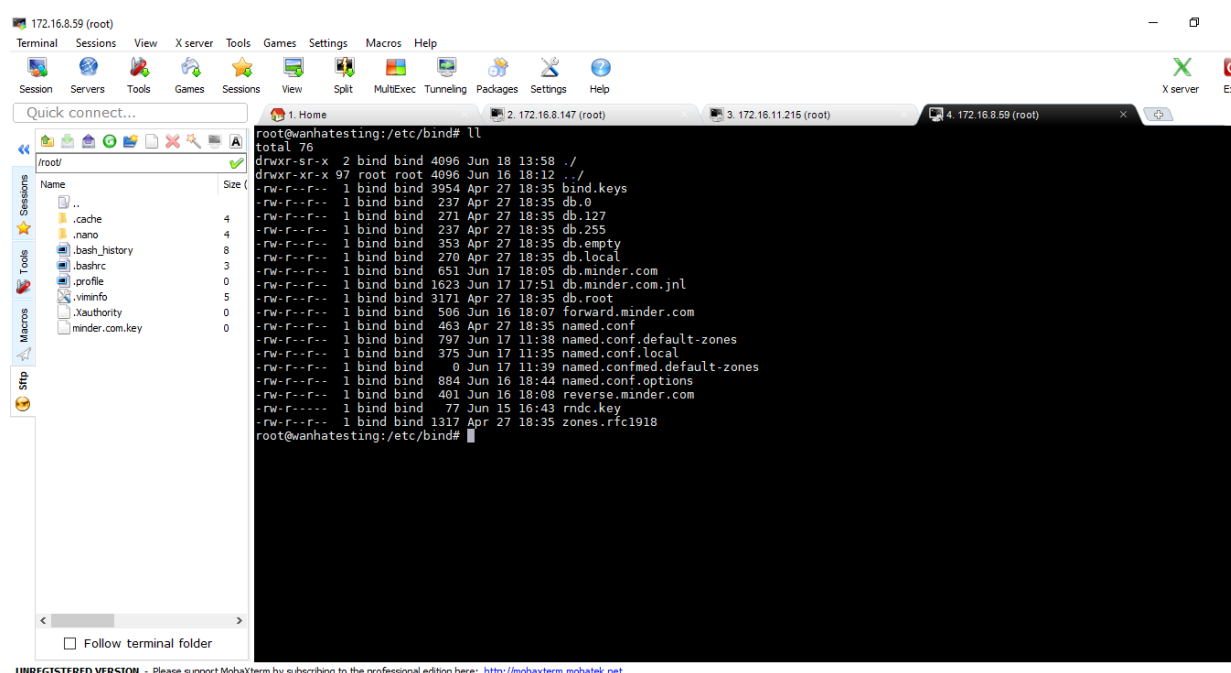
### Configuration Steps:

**Step 1:** Initially, install the bind server with help of below URL:

<https://alibaba-cloud.medium.com/how-to-setup-dns-server-using-bind9-on-ubuntu-16-04-cf3ce7f570ec>

**Step 2:** Once Installation of bind server is done, give permission for all directories and file to bind using below command:

***sudo chown -R bind:bind /etc/bind/***

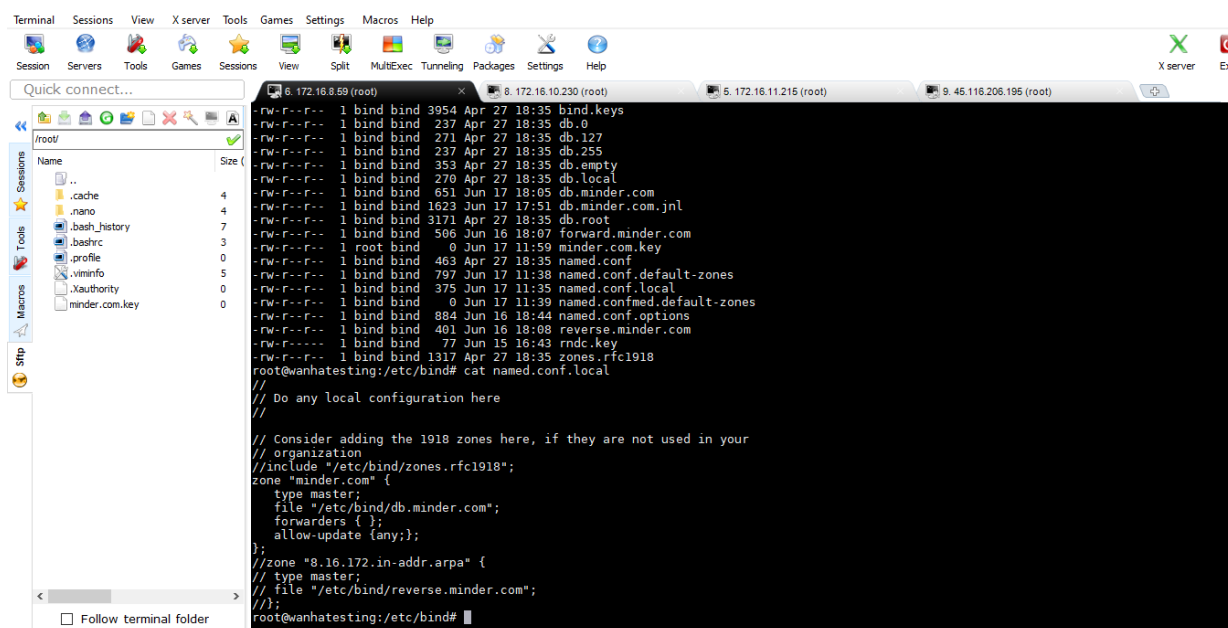


```

root@vanhatesting:/etc/bind# ll
total 76
drwxr-xr-x 2 bind bind 4096 Jun 18 13:58 ./
drwxr-xr-x 97 root root 4096 Jun 16 18:12 ../
-rw-r--r-- 1 bind bind 3954 Apr 27 18:35 bind.keys
-rw-r--r-- 1 bind bind 237 Apr 27 18:35 db.0
-rw-r--r-- 1 bind bind 271 Apr 27 18:35 db.127
-rw-r--r-- 1 bind bind 237 Apr 27 18:35 db.255
-rw-r--r-- 1 bind bind 353 Apr 27 18:35 db.empty
-rw-r--r-- 1 bind bind 270 Apr 27 18:35 db.local
-rw-r--r-- 1 bind bind 651 Jun 17 18:05 db.minder.com
-rw-r--r-- 1 bind bind 1623 Jun 17 17:51 db.minder.com.jnl
-rw-r--r-- 1 bind bind 3171 Apr 27 18:35 db.root
-rw-r--r-- 1 bind bind 506 Jun 16 18:07 forward.minder.com
-rw-r--r-- 1 bind bind 463 Apr 27 18:35 named.conf
-rw-r--r-- 1 bind bind 797 Jun 17 11:38 named.conf.default-zones
-rw-r--r-- 1 bind bind 375 Jun 17 11:35 named.conf.local
-rw-r--r-- 1 bind bind 0 Jun 17 11:39 named.conf.default-zones
-rw-r--r-- 1 bind bind 884 Jun 16 18:44 named.conf.options
-rw-r--r-- 1 bind bind 401 Jun 16 18:08 reverse.minder.com
-rw-r--r-- 1 bind bind 77 Jun 15 16:43 rndc.key
-rw-r--r-- 1 bind bind 1317 Apr 27 18:35 zones.rfc1918
root@vanhatesting:/etc/bind#

```

**Step 3:** Now create Zone in ***named.conf.local*** file as below:

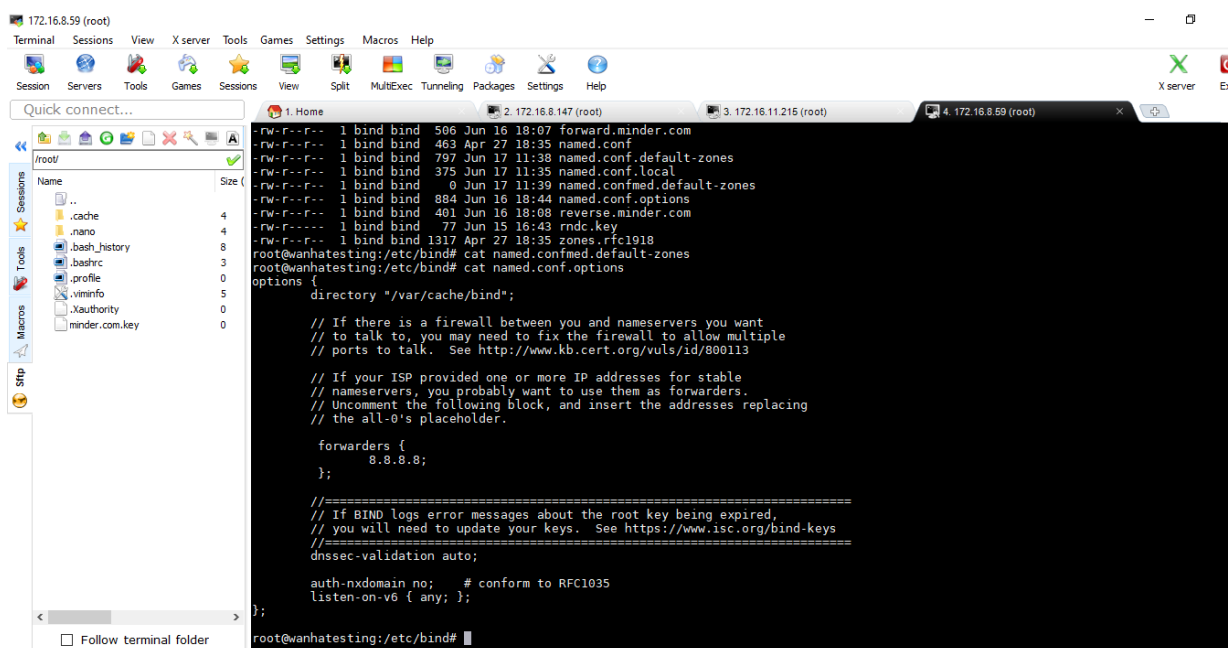


```

-rw-r--r-- 1 bind bind 3954 Apr 27 18:35 bind.keys
-rw-r--r-- 1 bind bind 237 Apr 27 18:35 db.0
-rw-r--r-- 1 bind bind 271 Apr 27 18:35 db.127
-rw-r--r-- 1 bind bind 237 Apr 27 18:35 db.255
-rw-r--r-- 1 bind bind 353 Apr 27 18:35 db.empty
-rw-r--r-- 1 bind bind 270 Apr 27 18:35 db.local
-rw-r--r-- 1 bind bind 651 Jun 17 18:05 db.minder.com
-rw-r--r-- 1 bind bind 1623 Jun 17 17:51 db.minder.com.jnl
-rw-r--r-- 1 bind bind 3171 Apr 27 18:35 db.root
-rw-r--r-- 1 bind bind 586 Jun 16 18:07 forward.minder.com
-rw-r--r-- 1 root bind 0 Jun 17 11:59 minder.com.key
-rw-r--r-- 1 bind bind 463 Apr 27 18:35 named.conf
-rw-r--r-- 1 bind bind 797 Jun 17 11:38 named.conf.default-zones
-rw-r--r-- 1 bind bind 375 Jun 17 11:35 named.conf.local
-rw-r--r-- 1 bind bind 0 Jun 17 11:39 named.confmed.default-zones
-rw-r--r-- 1 bind bind 884 Jun 16 18:44 named.conf.options
-rw-r--r-- 1 bind bind 401 Jun 16 18:08 reverse.minder.com
-rw-r--r-- 1 bind bind 77 Jun 15 16:43 rndc.key
-rw-r--r-- 1 bind bind 1317 Apr 27 18:35 zones.rfc1918
root@wanhatesting:/etc/bind# cat named.conf.local
//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";
zone "minder.com" {
 type master;
 file "/etc/bind/db.minder.com";
 forwarders { };
 allow-update {any;};
};
//zone "8.16.172.in-addr.arpa" {
// type master;
// file "/etc/bind/reverse.minder.com";
//};
root@wanhatesting:/etc/bind#

```

**Step 4:** Now, change the entry in cat *named.conf.options* file as below:



```

-rw-r--r-- 1 bind bind 586 Jun 16 18:07 forward.minder.com
-rw-r--r-- 1 bind bind 463 Apr 27 18:35 named.conf
-rw-r--r-- 1 bind bind 797 Jun 17 11:38 named.conf.default-zones
-rw-r--r-- 1 bind bind 375 Jun 17 11:35 named.conf.local
-rw-r--r-- 1 bind bind 0 Jun 17 11:39 named.confmed.default-zones
-rw-r--r-- 1 bind bind 884 Jun 16 18:44 named.conf.options
-rw-r--r-- 1 bind bind 401 Jun 16 18:08 reverse.minder.com
-rw-r--r-- 1 bind bind 77 Jun 15 16:43 rndc.key
-rw-r--r-- 1 bind bind 1317 Apr 27 18:35 zones.rfc1918
root@wanhatesting:/etc/bind# cat named.confmed.default-zones
root@wanhatesting:/etc/bind# cat named.conf.options
options {
 directory "/var/cache/bind";

 // If there is a firewall between you and nameservers you want
 // to talk to, you may need to fix the firewall to allow multiple
 // ports to talk. See http://www.kb.cert.org/vuls/id/800113

 // If your ISP provided one or more IP addresses for stable
 // nameservers, you probably want to use them as forwarders.
 // Uncomment the following block, and insert the addresses replacing
 // the all-0's placeholder.

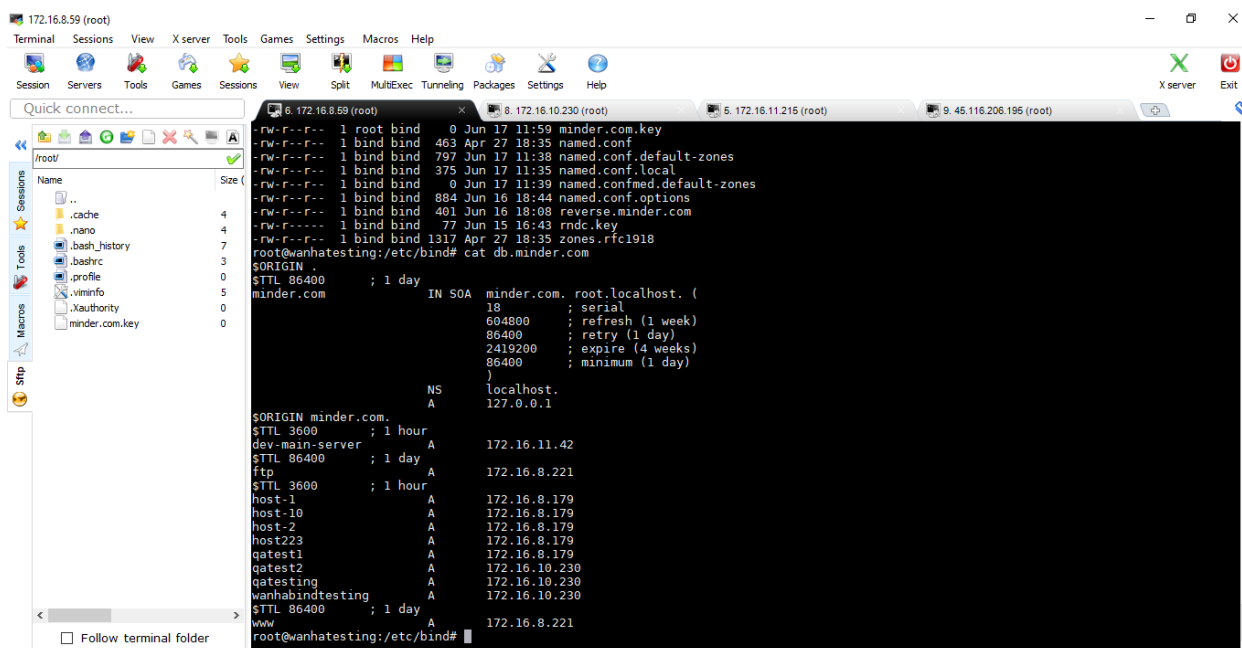
 forwarders {
 8.8.8.8;
 };

 //=====
 // If BIND logs error messages about the root key being expired,
 // you will need to update your keys. See https://www.isc.org/bind-keys
 //=====
 dnssec-validation auto;

 auth-nxdomain no; # conform to RFC1035
 listen-on-v6 { any; };
};
root@wanhatesting:/etc/bind#

```

**Step 5:** Now create file with your zone name as below and input your entry.



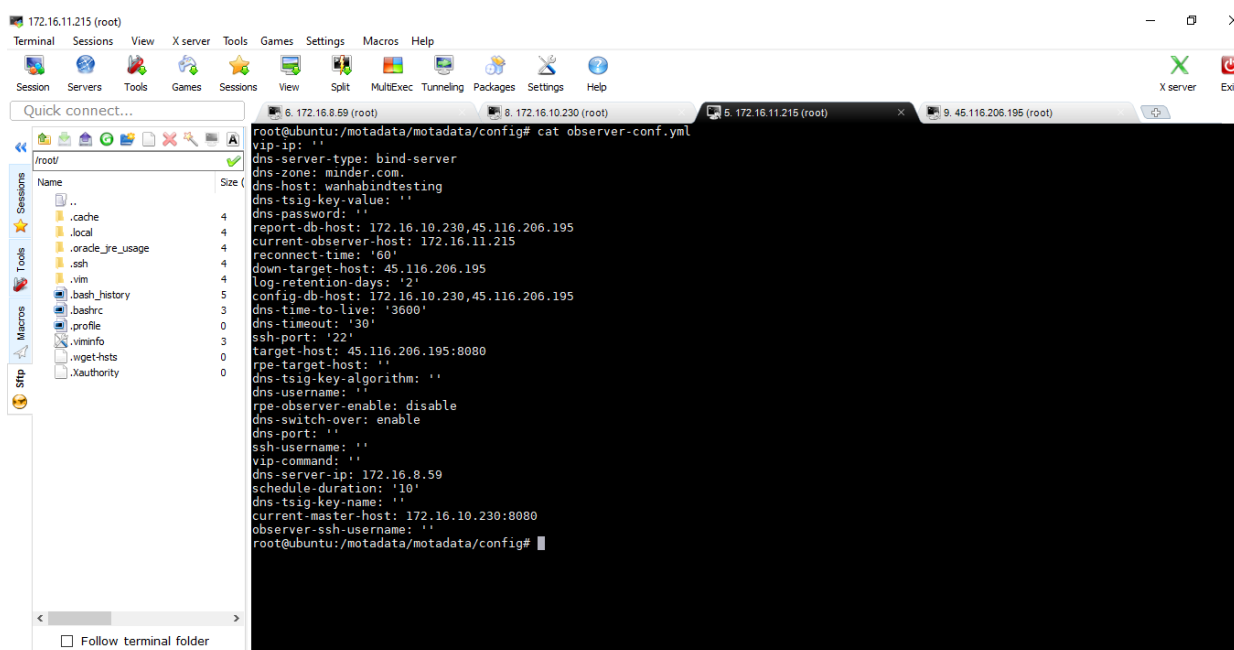
```

1 root bind 0 Jun 17 11:59 minders.com.key
-rw-r--r-- 1 bind bind 463 Apr 27 18:35 named.conf
-rw-r--r-- 1 bind bind 797 Jun 17 11:38 named.conf.default-zones
-rw-r--r-- 1 bind bind 375 Jun 17 11:35 named.conf.local
-rw-r--r-- 1 bind bind 0 Jun 17 11:39 named.conf.default-zones
-rw-r--r-- 1 bind bind 884 Jun 16 18:44 named.conf.options
-rw-r--r-- 1 bind bind 401 Jun 16 18:08 reverse.minder.com
-rw-r--r-- 1 bind bind 77 Jun 15 16:43 rndc.key
-rw-r--r-- 1 bind bind 1317 Apr 27 18:35 zones.rfc1918
root@wanhatesting:/etc/bind# cat db.minder.com
$TTL 86400 ; 1 day
minder.com
IN SOA minders.com. root.localhost. (
18 ; serial
604800 ; refresh (1 week)
86400 ; retry (1 day)
2419200 ; expire (4 weeks)
86400 ; minimum (1 day)
)
NS
localhost.
A
127.0.0.1

$ORIGIN minders.com.
$TTL 3600 ; 1 hour
dev-main-server A 172.16.11.42
$TTL 86400 ; 1 day
ftp A 172.16.8.221
$TTL 3600 ; 1 hour
host-1 A 172.16.8.179
host-10 A 172.16.8.179
host-2 A 172.16.8.179
host-223 A 172.16.8.179
qatest1 A 172.16.8.179
qatest2 A 172.16.10.230
qatesting A 172.16.10.230
wanhabindtesting A 172.16.10.230
$TTL 86400 ; 1 day
www A 172.16.8.221
root@wanhatesting:/etc/bind#

```

**Step 6:** Once all above configuration is done, few parameters need to be configured in **observer-conf.yml** in Observer machine at path **/motadata/motadata/config** folder for binding server DNS.



```

root@ubuntu:/motadata/motadata/config# cat observer-conf.yml
vip-ip: ''
dns-server-type: bind-server
dns-zone: minders.com
dns-host: wanhatesting
dns-tsig-key-value: ''
dns-password: ''
report-db-host: 172.16.10.230,45.116.206.195
current-observer-host: 172.16.11.215
reconnect-time: '60'
down-target-host: 45.116.206.195
log-retention-days: '2'
config-db-host: 172.16.10.230,45.116.206.195
dns-time-to-live: '3600'
dns-timeout: '30'
ssh-port: '22'
target-host: 45.116.206.195:8080
rpe-target-host: ''
dns-tsig-key-algorithm: ''
dns-username: ''
rpe-observer-enable: disable
dns-switch-over: enable
dns-port: ''
ssh-username: ''
vip-command: ''
dns-server-ip: 172.16.8.59
schedule-duration: '10'
dns-tsig-key-name: ''
current-master-host: 172.16.10.230:8080
observer-ssh-username: ''
root@ubuntu:/motadata/motadata/config#

```

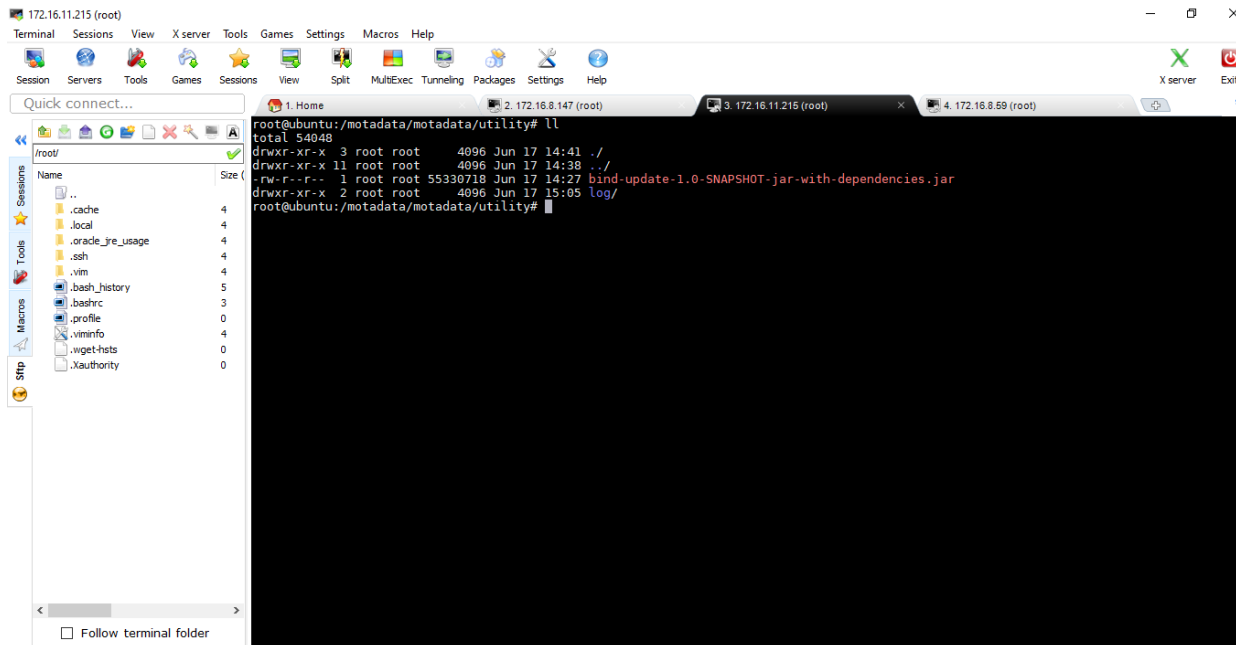
Below are the parameter to be added for Window DNS WAN HA in observer Conf:

- dns-server-ip: 172.16.8.59
- dns-server-type: 'bind-server'
- dns-timeout: default 30 second
- dns-zone: minders.com

- dns-host: wanhabindtesting
- dns-switch-over:enable

**Step 7:** Once all Setup is done you can verify the utility using below:

- Put the Utility in second level of **/motadata/motadata** in observer.



- Prepare the json with below details:

```
{ "dns-timeout": 60, "dns-server-ip": "172.16.8.59", "dns-domain": "qatest2", "replace-with-ip": "172.16.10.230", "dns-time-to-live": 3600, "dns-zone": "minder.com." }
```

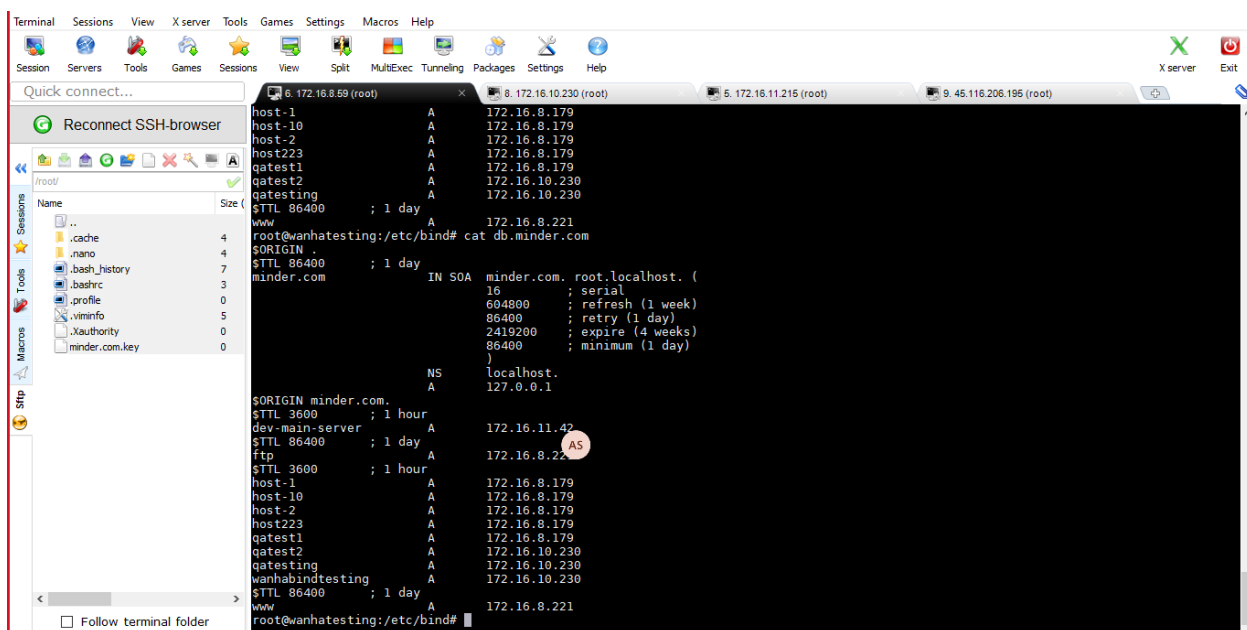
- Encode the above json using <https://www.base64encode.org/>
- The output will be as below:

```
eyAiZG5zLXRpbWVvdXQiOiAzMCwgImRucylzZXJ2ZXItaXAiOiAiMTcyLjE2LjguMjI5liwglmRucylkb2IhaW4iOiAidGVzdCIsICJyZXBsYWNlXGdpdGgtaXAiOiAiMTcyLjE2LjEwLjIzMCIsICJkbmMtdGltZS10byIsaXZlIjogMzYwMCwgImRucy16b25lIjogIm5ld3Rlc3QuY3JtMjAxNi5sb2NhbmCIscCJkbmMtdXNlcm5hbWUiOiAiQWRtaW5pc3RyYXRvcilscCJkbmMtcGFzc3dvcmQiOiAiTWluZEAxMjMiLCJkbmMtcG9ydCI6NTk4NX0=
```

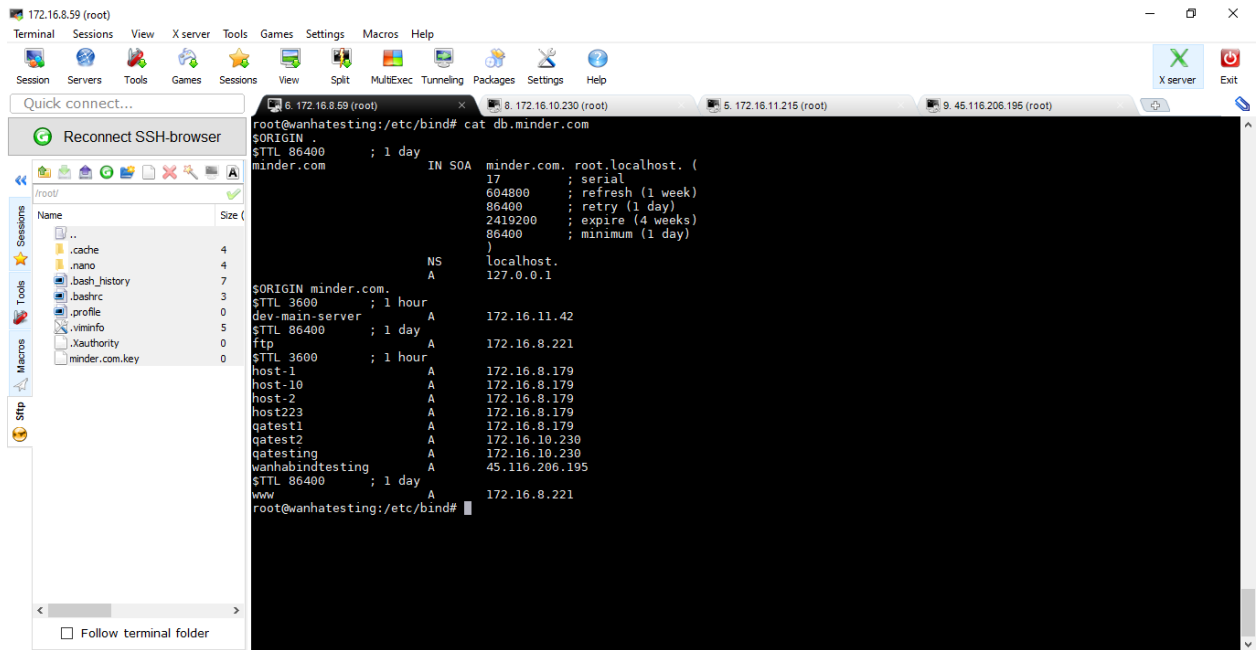
- Execute below command to check the setup:

***/motadata/motadata/jdk/bin/java -jar bind-update-1.0-SNAPSHOT-jar-with-dependencies.jar "above encoded json"***

**OLD DNS Entry:**



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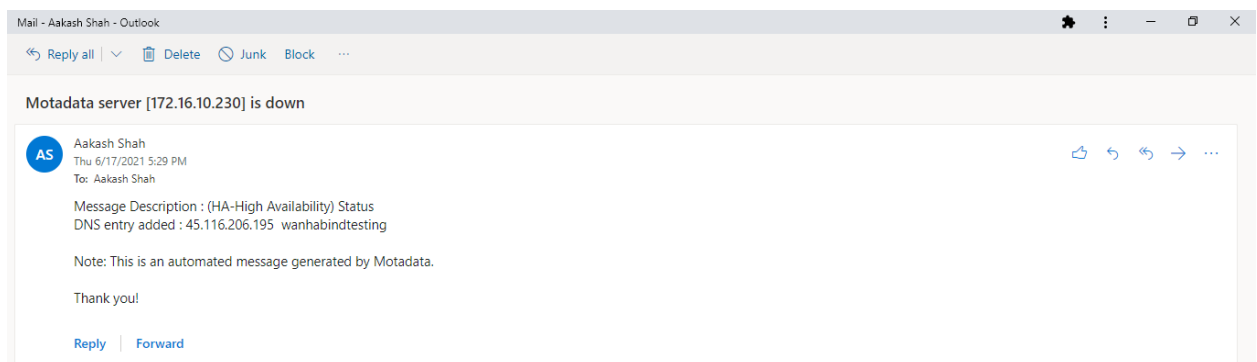
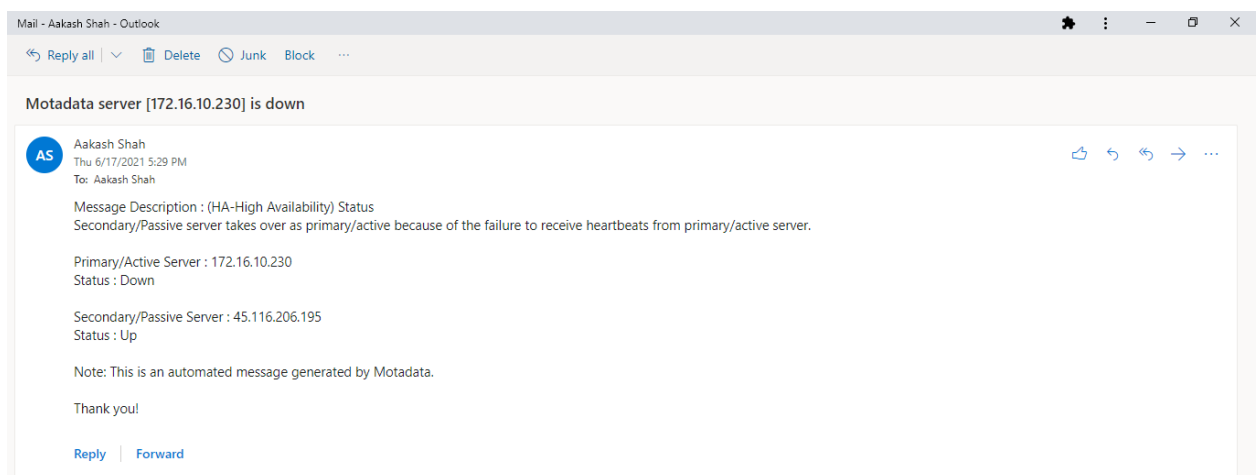
```

root@wanhatesting:/etc/bind# cat db.minder.com
$ORIGIN .
$TTL 86400 ; 1 day
minder.com IN SOA minder.com. root.localhost. (
 17 ; serial
 604800 ; refresh (1 week)
 86400 ; retry (1 day)
 2419200 ; expire (4 weeks)
 86400 ; minimum (1 day)
)
;
minder.com NS localhost.
 A 127.0.0.1

$ORIGIN minder.com.
$TTL 3600 ; 1 hour
dev-main-server A 172.16.11.42
ftp A 172.16.8.221
$TTL 3600 ; 1 hour
host-1 A 172.16.8.179
host-10 A 172.16.8.179
host-2 A 172.16.8.179
host223 A 172.16.8.179
qatest1 A 172.16.8.179
qatest2 A 172.16.10.230
qatesting A 172.16.10.230
wanhabindtesting A 45.116.206.195
$TTL 86400 ; 1 day
www A 172.16.8.221
root@wanhatesting:/etc/bind#

```

## 5.1 Notification via E-mail



## 5.2 Notification in Audit Log

Audits

Export

Operation Type

All

Audit Status

All

Time Range

Apply

From 17 Jun, 2021 12:00:00 AM To 17 Jun, 2021 11:59:59 PM

| Message                                                                              | Time                     | User  | Remote Host   | Status  |
|--------------------------------------------------------------------------------------|--------------------------|-------|---------------|---------|
| User Login : admin (Local Auth)                                                      | 17 Jun, 2021 05:35:28 PM | admin | 157.38.25.23  | Success |
| Observer Audit : Can not start motadata cluster service on the host [45.116.206.195] | 17 Jun, 2021 05:29:27 PM | admin | 172.16.11.215 | Success |
| Observer Audit : DNS entry added : 45.116.206.195 wanhabindtesting                   | 17 Jun, 2021 05:29:23 PM | admin | 172.16.11.215 | Success |
| Observer Audit : Process started to changes cluster master on host [45.116.206.195]  | 17 Jun, 2021 05:29:23 PM | admin | 172.16.11.215 | Success |
| Observer Audit : Email notification attempted for the down host [172.16.10.230]      | 17 Jun, 2021 05:29:23 PM | admin | 172.16.11.215 | Success |
| Observer Audit : Started motadata service on the host [45.116.206.195]               | 17 Jun, 2021 05:29:23 PM | admin | 172.16.11.215 | Success |
| Observer Audit : Can not start motadata cluster service on the host [45.116.206.195] | 17 Jun, 2021 05:28:27 PM | admin | 172.16.11.215 | Success |
| Observer Audit : Can not start motadata cluster service on the host [45.116.206.195] | 17 Jun, 2021 03:47:57 PM | admin | 172.16.11.215 | Success |
| Observer Audit : Email notification attempted for the down host [172.16.10.230]      | 17 Jun, 2021 03:47:39 PM | admin | 172.16.11.215 | Success |
| Observer Audit : Process started to changes cluster master on host [45.116.206.195]  | 17 Jun, 2021 03:47:39 PM | admin | 172.16.11.215 | Success |

Showing 1 to 10 of 13 entries

First

Previous

1

2

Next

Last

Motadata : 7.6.700

Server Time Thu Jun 17 17:35:50 IST 2021

Activate Windows

Go to Settings to activate Windows.



## Keep in touch

[www.motadata.com](http://www.motadata.com), [sales@motadata.com](mailto: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](http://www.motadata.com).

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