

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:

| | | | Serve | er Manager | | | |
|----------------------------|--------------|-------------------------|----------------------------|--------------------------------|----------------------|---|-------|
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| WIN-SO//NB3G8GR | | _msdcs | | | | | |
| Porward Lookup Zones | | sites | | | | | |
| | | _tcp | | | | | |
| b sites | | _uap | | | | | |
| ⊳ [□] _tcp | | UomainUnsZones | (Acad of Acade arise (COA) | (242) | | | |
| domains | | (same as parent folder) | Start of Authority (SUA) | [342], Win-so//nb3g8gr.n | static | | |
| ⊳ 🚞 gc | | (same as parent folder) | Heat (A) | 172 16 9 220 | 5/10/2021 4/20/00 BM | | |
| þ 🛄 pdc | _ | (same as parent folder) | IDv6 Hart (AAAA) | fd00.0001.0001.0001.5962 | 6/10/2021 4:30:00 PW | | |
| ⊿ 🛐 newtest.crm2016.local | = | (same as parent folder) | IDv6 Host (AAAA) | fd00.0001.0001.0001.0001.0000. | 6/10/2021 4:30:00 PM | | |
| ▷ i _msdcs | | dev-main-server | Host (A) | 172 16 11 45 | static | | |
| i | | hosr-1 | Host (A) | 172 16 8 179 | static | | |
| btcp | | host-1 | Host (A) | 172.16.8.179 | static | | |
| Judp | | host-10 | Host (A) | 172.16.8.179 | static | | |
| Beverse Lookun Zones | | pe-dev-server | Host (A) | 172,16.9.130 | static | | |
| ▶ 3 10.16.172.in-addr.arpa | | test | Host (A) | 172.16.10.230 | static | | |
| 11.16.172.in-addr.arpa | | wanhatesting | Host (A) | 45.116.206.195 | static | | |
| ⊳ 👩 8.16.172.in-addr.arpa | | win-so77nb3g8gr | Host (A) | 172.16.8.229 | static | - | |
| 9.16.172.in-addr.arpa | | win-so77nb3g8gr | IPv6 Host (AAAA) | fd00:0001:0001:0001:0000: | static | | |
| Trust Points | | win-so77nb3g8gr | IPv6 Host (AAAA) | fd00:0001:0001:0001:5863: | static | | |
| Conditional Forwarders | \mathbf{r} | | | | | | |
| | | | | | | | |

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

| Quick connect | 🔂 1. Home | 📑 5. 172.16.10.230 (root) | 🗔 3. 172.16.11.215 (root) 🛛 👋 | 📑 10. 172.16.11.215 (root) | 11. 45.116.206.195 (root) | ¢ (| 5 |
|---|--|--|-------------------------------|----------------------------|---------------------------|-----|---|
| Image: Second | rootgubuntu:/motadata/mu vip.pi/ dns.server.type: window dns.zone:newtest.crm20 dns.shost: wanhatesting dns.tsig.key.value: '' dns.password: ba03Y6jv report.db.host: 127.16. current.observer.host: '27 config.db.host: 127.16. dns.timeout: '30 sh.port: '22' target.host: 45.116.206 rpe.target.host: '15.10.206 rpe.target.host: '10.206 rpe.target.host: '10.206 rpe.target.host: '300 dis.switch.over: enable dns.switch.over: enable dns.switch.over: enable dns.switch.over: enable dns.switch.over: '300 vip.command: '' current.master.host: 17. current.master.host: 17. costever.sh.username: root@ubuntu:/motadata/mu | <pre>stadata/config# cat observ .server [6.local)J3WEISbea67w=== [0.230,45.116.206.195 .72.16.11.215 5.206.195 [0.230,45.116.206.195 .195:8080 ator sable 229 2.16.10.230:8080 tadata/config# </pre> | er-conf.yml | | | | ~ |
| Follow terminal folder | | | | | | | |
| INDECISTEDED VEDSTON - Please g inport Mo | aYterm by subscribing to the professional | dition here: http://mohavterm.mohatek.r | et | | | | ~ |

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-withdependencies.jar encrypt Mind@123



Command to decrypt password

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

| | 172.16.1 | 1.215 (root |) | | | | | | | | | | _ | · 0 | × |
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| Se | ssion | Servers | Tools | Games | Sessions | View | Split | MultiExec | Tunneling | Packages | Settings | Help |) | X server | Exit |
| | Quick | connect | | | | 👧 1. Hom | e | | | 2. | 72.16.8.14 | 7 (root) | 🗙 🖾 3. 172.16.11.215 (root) 🛛 🗙 | | \$ |
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| ssior | Name | | | | size (| rwxr-xr- | x 2 ro | ot root | 409 | 6 Jun 1 | 7 17:15 | conf | ig/ vpt_utility_l_0_SNADSHOT_iar_with_dependencies_iar | | |
| Š | 1 | .cache | | | 4 | Irwxr-xr- | x 8 ro | ot roo | 409 | 6 Apr 3 | 2018 | jdk/ | ypr-drifty-i.o-SwapShol-Jar-with-dependencies.jar | | |
| × | | .local | | | 4 | rwxr-xr-: | x 2 ro | ot root | 409 | 6 Jun 1 6 Jan | 1 2020 2 2019 | keys | | | |
| slo | | .oracle_jre | _usage | | 4 | rwxr-xr- | x 2 ro | ot roo | 409 | 6 Jun 1 | 3 00:00 | log/ | | | |
| Ĕ | . i | .vim | | | 4 | rwxr-xr- | x 2 ro x 1 ro | ot root | 409 62128 | 5 Jun 1 5 Jun 1 | 1 16:04 1 11:45 | mota | data-lib/ data-observer* | | |
| " | | .bash_hist | ory | | 5 | rw-rr- | - 1 ro | ot root | 67 | 5 Apr 3 | 2018 | mota | data-observer.config | | |
| cros | | .bashrc | | | 3 | rw-rr- | - 1 ro - 1 ro | ot roo ot roo | 1027 | B Apr 3 B Jan | 0 2018 3 2019 | Prod | uct License Agreement.txt ME.TXT | | |
| Ma | . 🗖 | .viminfo | | | 4 | rwxr-xr- | x 2 ro | ot roo | 409 | 6 Apr 3 | 2018 | tmp/ | | | |
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Step 5: Once all Setup is done, you can verify the utility using below:

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

| 1 | 172.16.11.215 | root) | | | | | | | | | | | | | | | | | | - 0 | × |
|----------|---------------|------------|--------------|------------|------------|-----------|------------------------|-------------|--------------------|----------|----------|---------------|--------|-----------|---------------|----------|----------|--------|--|----------|------|
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| <u> </u> | | ect | | | 1. Ho | ome | (matadata | (motod) | | 2.172.1 | 16.8.147 | (root) | | 3. 172.16 | 5.11.215 (roc | Dt) | × | 4 | | | |
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| | /root/ | | | ٧ | rwxr-xi | r-x 1 | l root ro | ot 40 | 096 Jun | 17 1 | 4:38 | | | | | | | | | | |
| sions | Name | | | Size (| rwxr-xi | r-x 2 | 2 root ro | ot 40 | 996 Jun 996 Jun | 17 1 | 7:15 | config/ | | | | | | | | | |
| Ses | . | | | | rw-rr | r 1 | l root ro | ot 19 | 951 Jun | 10 1 | 4:30 | encrypt-utili | ty-1.0 | 0-SNAPSH | IOT-jar-v | with-dep | pendenci | es.jar | | | |
| * | .cachi | | | 4 | rwxr-xi | r-x 2 | 2 root ro | ot 40 | 996 Apr 996 Jun | 11 | 2018 | keys/ | | | | | | | | | |
| ø | oracl | _jre_usage | | 4 | rw-r | r | 2 root ro | ot 40 | 096 Jan | .8 | 2019 | lib/ | | | | | | | | | |
| 100 | .ssh | | | 4 | rwxr-xi | r-x 2 | 2 root ro 2 root ro | ot 40 | 096 Jun 096 Jun | 18 0 | 6:04 | motadata-lib/ | | | | | | | | | |
| 2 | vim | history | | 4 - | rwxr-xi | r-x | l root ro | ot 621 | 286 Jun | 11 1 | 1:45 | motadata-obse | rver* | config | | | | | | | |
| s | .bash | c | | 3 | rw-ri | i | l root ro l root ro | ot 10 | 278 Apr | 30 | 2018 | Product Licen | se Ag | reement. | txt | | | | | | |
| Jacn | .profil | | | 0 | rw-rr | r] | 1 root ro | ot 8 | 508 Jan | 8 | 2019 | README.TXT | | | | | | | | | |
| 1 | .vimin | o hoto | | 4 | rwxr-xi | r-x 3 | 2 root ro 3 root ro | ot 40 | 096 Jun | 17 1 | 4:41 | utility/ | | | | | | | | | |
| 9 | .Xaut | ority | | 0 | rwxr-xr | r-x 4 | 4 root ro | ot 4 | 096 Jun | 10 1 | 6:49 | WindowDNSUpda | tePyti | honScrip | t/ | | | | | | |
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• Prepare the json with below details:

{"dns-timeout": 30, "dns-server-ip": "172.16.8.229", "dns-domain": "wanhatesting", "replacewith-ip": "172.16.10.230", "dns-time-to-live": 3600, "dns-zone": "newtest.crm2016.local", "dnsusername": "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 <u>https://www.base64encode.org/</u>

• The output will be as shown below:

eyAiZG5zLXRpbWVvdXQiOiAzMCwgImRucyIzZXJ2ZXItaXAiOiAiMTcyLjE2LjguMjI5IiwgImRucyIkb2IhaW4iOiAidGVzdCIsICJyZXBsYWNILXdpdGgtaXAiOiAiMTcyLjE2LjEwLjIzMCIsICJkbnMtdG ItZSI0byIsaXZIIjogMzYwMCwgImRucy16b25IIjogIm5Id3RIc3QuY3JtMjAxNi5sb2NhbCIsICJkb nMtdXNIcm5hbWUiOiAiQWRtaW5pc3RyYXRvciIsICJkbnMtcGFzc3dvcmQiOiAiTWIuZEAxMjMi LCJkbnMtcG9ydCI6NTk4NX0=

 Execute below command in motadata/motadata/WidowsDNSUpdatePythonScriptUpdate

python3.7 winrmdnsutility.py

The output will be as below:

| i 17 2 | .16.11.215 (root |) | | | | | | | | | | | - 0 | × |
|--------------------------------|---------------------------------------|-----------|-------------|--|---|---|---|--|--|--|-----------------------------|---|---|---------------------------------------|
| Termir | al Sessions | View | X server | Tools | Games | Settings | Macros | Help | | | | | | |
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| Sessio | n Servers | Tools | Games | Sessions | View | v Split | : MultiExer | : Tunneling | Packages | Settings | Help | | X server | Exit |
| Qu | ick connec | | | | 👧 1. | Home | | | 2. 1 | 72.16.8.147 | 7 (root) | × 🕼 3. 172.16.11.215 (root) × 🕀 | | 8 |
| Stip ☆ Macros Tools Sessions | i i i i i i i i i i i i i i i i i i i | _usage | × 4 1 | A A A A A A A A | oot@ui iiiiiii wgImR "resu oot@ui | buntu:// MTcyLjE: ucy16622 9ydCI6N Lt*: "si buntu:// | notadata/ 2LjguMjIS ILjogImS Tk4NS9= uotadata/ notadata/ | motadata IiwgImRu 1d3Rlc3C *error-n motadata | s/Windov Lcylkb2j yuY3J₩ nessaget a/Windov | VDNSUpda haW4101 AxNi5st ": ""} vDNSUpda | atePyth AidGv2 2NhbCJ | oonScript# python3.7 winrmdnsutility.py eyAi2G5zLXRpbWVvdXQiOiAzMCwgI dCIsICJyZABsYWNLXdpd6gtaXAiOiAiMTeyLjEZjEwLjIzMCIsICJkbnMtdGlTZSI0 sICJkbnMtdXNLcmShbWUI0IAiQWRtawSpc3RyYXRvcIISICJkbnMtcGFzc3dvcmQiOiA honScript# | RucylzZXJ2Z yJsaXZlIjog TWluZEAxNjM | A KETTA Vervind Vervind LCJk |
| < | _ | | | > | | | | | | | | | | |
| | Follow | termin | al folder | | | | | | | | | | | |
| UNREC | ISTERED VERS | ION - Ple | ease suppor | t MobaXter | rm by sub | oscribing to t | the profession | al edition her | e: http://m | obaxterm.m | iobatek.ne | t | | |

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:

| Å | | DNS Manager | | | Ĺ | - 🗆 🗙 |
|--|------|--|--|---|---|-------|
| File Action View Help | | | | | | |
| 🗢 🌩 🖄 📰 🗙 🖼 🖬 🕺 🖬 🖬 | | _ | | | | |
| DNS WIN-SO77NB3G8GR Forward Lockup Zones msdcs.crm2016.local msdcs.crm2016.local msdcs.trm2016.local msdcs. | Name | Type Start of Authority (SOA) Name Server (NS) Host (A) IPv6 Host (AAAA) IPv6 Host (AAAA) Host (A) Host (A) | Data [324], win-so77nb3g8gr.n win-so77nb3g8gr.newtest T27.16.829 Fd06:0001:0001:0001:0000 T27.16.179 T27.16.3.179 T27.16.3.179 T27.16.3.179 T27.16.3.179 T27.16.1.0230 T27.16.1.0230 T27.16.1.0230 T27.16.3.29 fd00:0001:0001:0001.5863 fd00:0001:0001:0001:0001 | Timestamp static static 3/29/2021 & 30:00 PM 3/29/2021 & 30:00 PM static static static static static static static static static static static static static static static static | | |
| L | 1 | | | | | |

After Fail over DNS Entry:

| Å | | DNS Manager | | | _ D X |
|--|--|--|--|---|--------------|
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| DNS WIN-SO77NB368GR Forward Lookup Zones msdcs.crm2016.local msdcs msdcs insdcs istes | Name Insides Insides Ites Ites Identified and the second s | Type Start of Authority (SOA) Name Server (NS) Host (A) IPv6 Host (AAAA) IPv6 Host (AAAA) Host (A) Host (A) | Data [330], win-so77nb3g8gr.n win-so77nb3g8gr.newtest T72.168.229 fd00:0001:0001:0001:0000 T72.161.129 T72.161.179 T72.168.179 T72.169.130 T72.169.130 T72.169.130 T72.169.130 T72.169.130 T60.030 45.116.206.195 T72.168.179 T72.169.130 T60.030 45.116.200 Hd0:0001:0001:0001:0000 | Timestamp static static 6/10/2021 4:30:00 PM 6/10/2021 4:30:00 PM 6/10/2021 4:30:00 PM static | |
| | 11 | | | | |

1.1 Notification via E-mail

| Mail - Aakash Shah - Outlook | * | : | - | ٥ | \times |
|--|---|---|-----|------|----------|
| *5 Reply all > 📋 Delete 🚫 Junk Block … | | | | | |
| Motadata server [172.16.10.230] is down | | | | | |
| As Aakash Shah Fri 6/11/2021 5:05 PM To: Aakash Shah | 4 | 5 | ≪ - | → ·· | • |
| Message Description : (HA-High Availability) Status DNS entry added : 45.116.206.195 wanhatesting | | | | | |
| Note: This is an automated message generated by Motadata. | | | | | |
| Thank you! | | | | | |
| Reply Forward | | | | | |
| | | | | | |

| Mail - Aakash Shah - Outlook | * | : | - | ٥ | × |
|---|---|---|-------|------|---|
| ※5 Reply all ✓ ÎDelete Solution Junk Block … | | | | | |
| Motadata server [172.16.10.230] is down | | | | | |
| Askash Shah Fi 6/11/2021 5:05 PM Te: Askash Shah 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 : 172.16.10.230 Status : Down Secondary/Passive Server : 45.116.206.195 Status : Up Note: This is an automated message generated by Motadata. Thank you! Reply Forward | ⇔ | 5 | «, -; | ···· | |
| | | | | | |

1.2 Notification in Audit Log

| Message | Time 🗘 | User | • | r Remote Host 🗘 | Status 🔷 |
|--|--------------------------|------|------|-----------------|-----------|
| User Login : admin (Local Auth) | 11 Jun, 2021 05:26:47 PM | admi | n | 106.76.81.229 | Success |
| User Login : admin (Local Auth) | 11 Jun, 2021 05:26:43 PM | admi | n | 106.76.81.229 | Failed |
| Observer Audit : DNS entry added : 45.116.206.195 wanhatesting | 11 Jun, 2021 05:04:59 PM | admi | n | 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 | admi | n | 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 | admi | n | 172.16.11.215 | Success |
| Observer Audit : Started motadata service on the host [45.116.206.195] | 11 Jun, 2021 05:04:59 PM | admi | n | 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 | admi | n | 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 | admi | n | 172.16.11.215 | Success |
| User Login : admin (Local Auth) | 11 Jun, 2021 04:09:45 PM | admi | n | 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 | admi | n | 172.16.11.215 | Success |
| Showing 1 to 10 of 12 entries | | | Firs | st 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.

| ă. | | | DNS Manager | _ 0 × |
|--|------|---|--|--|
| File Action View Help | | | | |
| ◆ ◆ <u>2</u> 🖬 🖻 🍛 🛛 🖬 🗎 🛱 🛱 | | | | |
| DVS WVN-RCSAPCC234 WVN-RCSAPCC234 WVN-RCSAPCC234 Good and Logs Good and Logs Forance Look 2 Cones moddstapal.coll moddstapal.coll tes istes istes istes foretDiractones foretDiractones foretDiractones Conditional Forwarders | Name | Type Start of Authority (SOA) Name Server (NS) Hott (A) Johé Hott (AAAA) Johé Hott (AAAA) Hott (A) Hott (A) | Data [1950], win-rc940Cc534.motadataga.loc.al, hostmaster.motadataga.loc.al, win-rc940Cc534.motadataga.loc.al, 172.16.877 172.16.877 172.16.887 172.16.8.98 172.16.8.95 172.16.8.156 172.16.8.156 172.16.8.156 172.16.8.154 | Timetamp static static static 21-feb-22 53000 PM 21-feb-22 43000 PM 21-feb-22 43000 PM 21-feb-22 43000 PM static stat |

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

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



(2) Connect to Slave Master and open /motadata/motadata/config/rpeconf.yml and do the following entries to the parameters.

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

(3) Once all above Configurations are done, You need to configure observerconf.yml in Observer machine in /motadata/motadata/config folderfor window DNS.



Below Parameter are added for Window DNS WAN HA in observer Conf.

- a. dns-server-type: window-server
- b. dns-zone: motadataqa.local
- c. dns-host: hamaster
- d. dns-time-to-live: '3600'
- e. dns-timeout: '30'

- 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 isattached 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 | ı:/n | otada | ata/mo | otadata# | # UU | | | |
|----------------------|------|--------|--------|----------|-------|------|---------|---|
| 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- | 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 d@123 | ı:/n | iotada | ata/mo | otadata# | ŧ /mc | otad | lata/mo | itadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar encrypt Mi |
| Encrpted Va | lue | : ba | a03Yf | DjVoJ3NE | LSb | ea67 | w== | |
| root@ubuntu | 1:/m | otada | ata/mo | otadata# | # | | | |
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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-rr 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-rr 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 l root root 621286 Jun 11 11:45 motadata-observer* | |
| -rw-rr l root root 675 Apr 30 2018 motadata-observer.config | |
| -rw-rr l root root 10278 Apr 30 2018 Product License Agreement.txt | |
| -rw-rr l 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 encry | pt Mi |
| d@123 | |
| Encrpted Value : ba03YfDjVoJ3NELSbea67w== | |
| root@ubuntu:/motadata/motadata# /motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decry | pt ba |
| 3YfDjVoJ3NELSbea67w== | |
| Decrypted Value : Mind@123 | |
| root@ubuntu:/motadata/motadata/ motadata/jdk/bin/java -jar_encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decry | pt ba |
| 3YfDjVoJ3NELSbea67w==/motadata/motadata/jdk/bin/java -jar encrypt-utility-1.0-SNAPSHOT-jar-with-dependencies.jar decrypt ba03YfDj | VoJ3N |
| LSbea67w== | |
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(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: | :/m | otada | ata/mo | otadata | # ll | | | |
|--------------|-----|-------|--------|---------|------|----|-------|--|
| total 684 | | | | | | | | |
| drwxr-xr-x 1 | 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-rr | 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: | :/m | otada | ata/mo | otadata | # | | | |
| | | | | | | | | |
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(You will get WindowDNSUpdatePythonScript from GIT.)



(B)Prepare the json with details as below,

{"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,"dnszone": "newtest.crm2016.local", "dns-username": "Administrator", "dnspassword": "Mind@123","dns-port":5985}

Note - To run window script password should be in plain text

(C)Then, Encode the above json using <u>https://www.base64encode.org/</u>

(D) You will get the output like this:

eyAiZG5zLXRpbWVvdXQiOiAzMCwgImRucy1zZXJ2ZXItaXAiOiAiMTcyLjE 2LjguMjI5IiwgImRucy1kb21haW4iOiAidGVzdCIsICJyZXBsYWNILXdpdGgt aXAiOiAiMTcyLjE2LjEwLjIzMCIsICJkbnMtdGltZS10by1saXZIIjogMzYwMC wgImRucy16b25IIjogIm5Id3RIc3QuY3JtMjAxNi5sb2NhbCIsICJkbnMtdXNIc m5hbWUiOiAiQWRtaW5pc3RyYXRvciIsICJkbnMtcGFzc3dvcmQiOiAiTWlu ZEAxMjMiLCJkbnMtcG9ydCI6NTk4NX0=

(E)Execute below command in

/motadata/motadata/WidowsDNSUpdatePythonScriptUpdate

python3.7 winrmdnsutility.py (Above Code) you will get Output below like this.



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

(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:

| X. | | | DNS Manager | _ 0 | x |
|--|--|--|---|---|---|
| File Action View Help | | | | | |
| 🔶 🔿 🙍 🖬 🖨 🍳 🖬 🖬 🗐 🖏 | | | | | |
| DNS WNR-RCSAPC6234 WNR-RCSAPC6234 Group Construction (Construction) Group Construction (Construction) | Name midda ites top top differentiation (arre et parent folder) (arre et parent folder) | Type Start of Authority (SOA) Name Server (NS) Hott (A) (IP4 Host (AAAA) IP46 Host (AAAA) Host (A) Host (A) Host (A) Host (A) Host (A) Host (A) Host (A) IP46 Host (AAAA) IP46 Host (AAAA) IP46 Host (AAAA) | Data [9550]_win-r0947bC524.mottoditaga.local. win-rc0947bC524.mottoditaga.local. 172.168.577 r00000100010001409554002a.1bF23dac r000001000100010000000000160016 172.168.87 172.168.87 172.168.88 172.168.81 172.168.81 172.168.85 172.168.86 172.168.81 172.168.81 172.168.81 172.168.81 172.168.83 172.168.83 172.168.84 172.168.85 172.168.81 172.168.87 172.168.87 172.168.81 172.168.81 172.168.85 172.168.87 172.168.136 172.168.134 | Timestamp static static 21 Feb-22 53000 PM 21 Feb-22 43000 PM 21 Feb-22 43000 PM static | |
| | | | | Activate Windows Go to System in Control Panel to activate Windows. | |

After Fail over DNS Entry:

| | | | DNS Manager | | |
|---|--|---|--|-----------|--|
| File Action View Help | | | | | |
| • 🐟 🙍 📰 🖾 🕒 📾 🖾 📰 | | | | | |
| MS MVH-RCSAFC623A WH-RCSAFC623A MCHARCSAFC623A WH-RCSAFC623A MCHARCSAFC623A WIDERCSAFC623A MCHARCSAFC623A WIDERCSAFC63A MCHARCSAFC63A WIDERCSAFC63A MCHARCSAFC63A WIDERCSAFC63AFC63A MCHARCSAFC63AFC63A WIDERCSAFC63AFC63AFC63AFC63AFC63AFC63AFC63AFC63 | Name vites vites Log Log Came as parent foliary Came as parent foliary | Type Start of Authority (SDA) Name Server (NS) Hott (A) Ibot (AAAA) Ibot (AAAA) Ibot (AAAA) Ibot (AAAA) Hott (A) Ibod Hott (AAAA) Ibod (AAAA) Ibod (AAAA) Ibod (AAAA) Ibot (AAAA) | Dete 1950], win-rc94f5c6234.motadataqa.local, hostmaster.motadataqa.local. win-rc94f5c6234.motadataqa.local. 172.16.8.77 172.16.8.77 172.16.9.87 172.16.9.88 172.16.9.88 172.16.9.88 172.16.9.88 172.16.9.81 172.16.9.81 172.16.9.81 172.16.9.106 172.16.9.106 172.16.9.109 172.16.9.109 172.16.9.109 172.16.9.109 172.16.9.109 172.16.9.104 | Timestamp | |



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

 $\otimes \ \boxdot \ \curlyvee \ \And \rightarrow \cdots$

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.

| Tie Action View Hdp | å. | | | DNS Manager | - 0 × |
|---|---|------|---|--|--|
| Image: Second Secon | File Action View Help | | | | |
| INSK Nume Type Data Timetamp >> WNH-RC9470C234 | 🗢 🌩 🙍 📰 📾 🐼 📓 🖬 🖬 🖬 | | | | |
| b Total Domain Class Constraint Total Provide Class | INS IWN-RCSAPCC234 IWN-RCSAPCC234 IWN-RCSAPCC234 IFCRABLOGS IFCRABLOS <li< td=""><td>Name</td><td>Type Start of Authonity (50A) Name Server (NS) Host (A) Ilvé Host (AAAA) Ilvé Host (AAAA) Host (A) Host (A)</td><td>0419 04 04 04 04 04 04 04 04 04 04</td><td>ratic ratic 21-Feb-22 33000 PM 21-Feb-22 33000 PM 21-Feb-22 33000 PM 21-Feb-22 33000 PM 21-Feb-23 3300 PM 21-Feb-23 33000 PM 21-Feb-23 33000 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3000 PM 21-Feb-2</td></li<> | Name | Type Start of Authonity (50A) Name Server (NS) Host (A) Ilvé Host (AAAA) Ilvé Host (AAAA) Host (A) Host (A) | 0419 04 04 04 04 04 04 04 04 04 04 | ratic ratic 21-Feb-22 33000 PM 21-Feb-22 33000 PM 21-Feb-22 33000 PM 21-Feb-22 33000 PM 21-Feb-23 3300 PM 21-Feb-23 33000 PM 21-Feb-23 33000 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3300 PM 21-Feb-23 3000 PM 21-Feb-2 |



4 Configuration Steps for RPE

(1) Add active RPE host to the same zone as master.

(2) Connect to Active RPE and open /motadata/motadata/config/rpeconf.yml and do the following entries to the parameters.

- a. host: hamaster(DNS master hostname)
- b. rpe-host: harpe (DNS rpe hostname)
- c. rpe-physical-address: 172.16.9.88(ip of the active rpe)



- (3) Connect to standby RPE and open /motadata/motadata/config/rpeconf.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)



| #https rpe master host host: hamaster | | | | | | | | | | | | |
|--|---------------|--------|-----|----------|--|--|--|--|--|--|--|--|
| #https rpe master server port port: 443 | | | | | | | | | | | | |
| #rpe client host rpe-host: harp <mark>e</mark> | | | | | | | | | | | | |
| <pre>#rpe physical ip which need to be configured in case of RPE HA rpe-physical-address: 45.116.206.197</pre> | | | | | | | | | | | | |
| <pre>#reconnection time in seconds used to try for connection after dis reconnect-time: 30</pre> | | | | | | | | | | | | |
| #disconnection duration in hours, Must be between 1-24,default is 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(mi rpe-status-duration: 10 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| ~ | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| N. N. | | | | | | | | | | | | |
| AF | | | | | | | | | | | | |
| ~ ~ ~ | | | | | | | | | | | | |
| ~ # ~ | | | | | | | | | | | | |
| ∼ "rpe-conf.yml" 23L, 647C | | | | 8,15 All | | | | | | | | |
| (4) Connect to Obs | server | and | and | open | | | | | | | | |
| /motadata/motadata/confi | g/rpe-conf.yr | nl | | | | | | | | | | |
| | | | | | | | | | | | | |
| a. dns-server-type: window- | server | | | | | | | | | | | |
| b. dns-username: Administr | ator | | | | | | | | | | | |
| c. dns-zone: motadataqa.lo | cal | | | | | | | | | | | |
| d. rpe-dns-host: harpe | | | | | | | | | | | | |
| e. dns-password: i7opuYml(| Dd79FHMvYnN | lasA== | | | | | | | | | | |
| | | | | | | | | | | | | |

- f. dns-port: '5985'
- g. dns-server-ip: 172.16.8.57
- h. dns-time-to-live: '3600'
- i. current-master-host: hamaster

| <pre>dms-sarver-type: indow-sequer rpe-host-vys: dms-server.type: indow-sequer second and trate.tool max-rpee ing-check-timeout: '3' rpe-dms-host: harpe rpe-current-hosts: 172.16.9.88-ens160 dms-tsig-key-value: '' dms-tsig-key-value: '' dms-tsig-key-value: '' dms-tsig-key-value: '' dms-tsig-key-name: ''''''''''''''''''''''''''''''''''''</pre> | | |
|--|------|-----|
| "rpe-conf.yml" 22L, 604C | 1,27 | All |



(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:

| Å. | | | DNS Manager | _ 0 × |
|---|----------|---|--|--|
| File Action View Help | | | | |
| ◆ → <u>2</u> = 9 0 0 1 1 1 1 5 5 | | | | |
| DNS WNR-RGAPGCB34 WNR-RGAPGCB34 | Name | Type Start of Authority (50A) Name Server (NS) Hort (A) IProf Hort (AAAA) IProf Hort (AAAA) IProf Hort (AAAA) Hort (A) Hort (A) | Data [3950], win-rc940f0c8234.motadataga.local, hostmaster.motadataga.local, win-rc940f0c8234.motadataga.local, T21.16.8.7 fd00.0001.0001.0001.6005.99022a.1643.dac fd00.0001.0001.0001.0001.00016 T72.16.8.7 T72.16.8.8 172.16.8.15 172.16.8.156 172.16.8.156 172.16.8.156 172.16.8.154 | Timestamp static static 21-Feb-22 53000 PM 21-Feb-22 53000 PM 21-Feb-22 93000 PM static static </td |

After Fail Over DNS Entry:





1. Motadata RPE server [172.16.9.88] is down



Thu 24-02-2022 11:33



 $\otimes \ \boxdot \ \backsim \ \backsim \ \backsim \ \dotsm \ \rightarrow \ \cdots$

To: Ritvik Chouhan

motadata.qa@gmail.com

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



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-onubuntu-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/

| I | 72.16.8.59 (root) | | | | | | | | | | | | | | | | | - | ٥ | × |
|--------------------------------------|---|------------|-----------|----------|--|--|--|---|--|--|--|--|-----------------------------------|-----------------|----------|---------------|-------|---|--------|------|
| Tern | ninal Sessions | View | X server | Tools | Games Set | tings N | facros H | ielp | ~ | 5.0. | - | | | | | | | | | |
| 5 | <u>s</u> 😵 | 2 | 1 | 1 | 5 | 4 | | | ð | × | 2 | | | | | | | | X | ථ |
| Ses | sion Servers | Tools | Games | Sessions | View | Split | MultiExec | Tunneling | Packages | s Settings | Help | | | | _ | | | × | server | Exit |
| Q | uick connec | t | | | 💮 1. Home | | _ | X | 2. | 172.16.8.1 | 47 (root) | × | 3. 172.1 | 6.11.215 (root) | × 🗸 🗔 4. | 172.16.8.59 (| root) | × | 1 | 1 |
| 🚯 Sftp 📩 Macros 뚟 Tools 🖈 Sessions ≳ | Image: Second | y w.key | × 4 = | Size (| 001@wanha 001al 76 rwXr-Xr-Sr-> rw-r-r- rw-r-r- rw-r-r- rw-r-r- rw-r-r- rw- rw | <pre>xtestin x 2 bi 1 bi 1</pre> | g:/etc// nd bind nd bind g:/etc/ | bind# 4096.4096 3954.2377 2377 2377 2377 2377 2377 2377 2377 | ll Jun 18 Apr 27 Apr 27 Apr 27 Apr 27 Apr 27 Apr 27 Jun 17 Jun 17 Jun 17 Jun 17 Jun 17 Jun 17 Jun 17 Apr 27 Apr 27 | 13:58 18:12 : 18:35 : 11:35 : | // ind.kg bb.0 bb.255 bb.empty bb.locaf bb.mindd | /s r.com minder.cor nf unf.local nf.ocal nf.ocal nf.ocal inder.cor cigita | n L-zones stuult-zones n | | | | | | | |
| | < | | | > | | | | | | | | | | | | | | | | |
| | Follov | / termin | al folder | | | | | | | | | | | | | | | | | |

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: http://mobaxterm.mobatek.net

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



| Termin | al Session | s View | X server | Tools | Games | Settings | Macros | Help | | | | | | | | | | | | | | | |
|---|--|------------------------|----------------|---|--|----------------|---|--|---|--|---|--|---|------------------------------|----------------|------|----|---------|-----------|----------|--------------|----------|------|
| 5 | | R. | 1 | - 🚖 | 5 | 4 | j 📕 | | 3 | \ge | | 2 | | | | | | | | | | X | ථ |
| Sessio | a Servers | Tools | Games | Sessions | s View | Split | t MultiEx | kec Tunnelin | g Packages | s Setting | is He | lelp | | | | | | | | |) | K server | Exit |
| Qui | ck conne | ct | | | 6. 1 | 72.16.8.59 | (root) | | × 💽 8. | . 172.16.10 |).230 (ro | oot) | × | 5. 172. | .16.11.215 (re | oot) | ×V | 9. 45.1 | 16.206.19 | 5 (root) | - | | 1 |
| Sttp 🖄 Macros 😽 Tools 🔊 Sessions 🌫 Z 3 an if | ot/ me bachpin | story ity om.key | <u>× < </u> | Size (4 7 3 0 5 0 0 | Two From From From From From From From Fro | <pre>///</pre> | <pre>bind b bind bind b bind bind bind bind bind bind bind bind</pre> | <pre>ind 3954 ind 237 ind 271 ind 237 ind 353 ind 270 ind 3171 ind 506 ind 107 ind 375 ind 375 ind 377 ind 375 ind 77 ind 377 ind 384 iguration he 1918 ; /zones.r b.minder ;}; addr.arp</pre> | Apr 27 Apr 27 Apr 27 Apr 27 Apr 27 Jun 17 Jun 17 Jun 17 Jun 16 Jun 17 Jun 17 Jun 16 Jun 16 Jun 16 Jun 16 Jun 16 Jun 16 Jun 16 Jun 16 Jun 17 Strange 10 Strange 10 Str | 12:150 18:35 18:35 18:35 18:35 18:35 18:35 18:35 11:38 11:39 11:59 11:38 11:38 11:38 11:38 11:39 11:35 11:39 11:35 11:39 11:35 | bind. db.0 db.25 db.ems db.mi | keys ?7 i5 hpty ccal inder.con oot ard.minder.con f. i.conf.d. i.conf.d. i.conf.d. i.conf.d. i.conf.d. i.conf.d. j.co | m m.jnl lef.allt- d.defau d.defau ker.com 8 | zones lt-zones in your | | | | | 0200.13 | 5 (104.) | | | |
| < | | | | > | // file //}; | e "/etc | /bind/r | everse.m: | inder.co | om"; | | | | | | | | | | | | | |
| | Folle | w termin | nal folder | | root@wa | anhates | ting:/e | tc/bind# | | | | | | | | | | | | | | | |

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

| 172.16.8.59 (root) | Yana Taala | | Manage I Jake | | | | | - 0 | × |
|---|--|---------------|--|---|--|---|----------------------|---------------|------|
| Session Servers Tools | Games Sessio | ns View Split | MultiExec Tunneling | Packages Settings | () Help | | File (75 (0.5 70 /)) | X X server | Exit |
| Contraction of the second sec | X X | <pre></pre> | bind bind 506 3 bind bind 403 / bind bind 477 3 bind bind 375 3 bind bind 375 3 bind bind 884 3 bind bind 881 3 bind bind 481 3 bind bind 1317 / ting:/etc/bind# c ting:/etc/bind# c tory "/var/cache/ there is a firet talk to, you may rts to talk. See your ISP provide meservers, you pr somment the folls all-0's placeho arders { 8.8.8.8; BIND logs error u will need to uy c-validation auto mxdomain no; f ting:/etc/bind# | <pre>21/2168/47 Jun 16 18:07 fo Apr 27 18:35 na Jun 17 11:35 na Jun 17 11:35 na Jun 16 18:44 na Jun 16 18:44 na Jun 16 18:68 re Jun 15 16:43 rm //www.lb actween you wall between you a conform to RF ;</pre> | <pre>(rear) reard.minder.cc med.conf med.conf.defaul med.conf.octai med.conf.octai everse.minder.cc dc.key everse.minder.cc dc.key u and nameserve he firewall to .cert.org/vuls/ IP addresses fc use them as fc d insert the ad the root key b . See https:// C1035</pre> | <pre>m m t-zones ault-zones s m rs you want allow multiple id/80013 rv stable rwarders. dresses replacing eing expired, www.isc.org/bind-keys</pre> | = = | × 12 | |

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



| Terminal Seusions View X verver Tools Games Settings Macros Help Secsion Surver Tools Games Settings Macros Help Secsion Surver Tools Games Settings Macros Help Quick Connect Quick Connect Couries Contert Couries Contert <th>I</th> <th>72.16.8.</th> <th>59 (root)</th> <th></th> <th>-</th> <th>٥</th> <th>×</th> | I | 72.16.8. | 59 (root) | | | | | | | | | | | | | | | | | | - | ٥ | × |
|---|--------------------------------------|----------|---|----------------------|------------|---|--|--|--|--|---|--|---|---|---|--------------------|----------------|---------|--------------|-----------|----|-------------|------------------|
| Series Total Gene Series Wei Set Multice: Turning Packages Setup: Heb Xerver E Quick connect Wei Set Multice: Turning Packages Setup: Heb Setup: Setup: <th>Term</th> <th>inal</th> <th>Sessions</th> <th>View</th> <th>X server</th> <th>Tools</th> <th>Games Set</th> <th>tings</th> <th>Macros</th> <th>Help</th> <th></th> | Term | inal | Sessions | View | X server | Tools | Games Set | tings | Macros | Help | | | | | | | | | | | | | |
| Quick connect © 172:16:10230 (root) © 172:16:10230 (root) © 172:16:10230 (root) © 9.45:116:206:195 (root) © 9.45:116:206:195 (root) Image: Second | Sess | ion ! | Servers | 🞉 Tools | 🧞 Games | 🚖 Sessions | | Split | MultiExec | Tunneling | Packages | Settings | s Help | | | | | | | | x | X server | O Exit |
| Image: Section of the section of th | Q | uick d | connect | | | | 6. 172.1 | 6.8.59 (| oot) | × | 8. | 172.16.10. | .230 (root) |) | | 5 . 172.16. | .11.215 (root) | × 🖉 🖬 9 | 45.116.206.1 | 95 (root) | ×Ф | | 8 |
| Follow terminal folder Foot@wanhatesting:/etc/bind# Foot@wanhatesting:/et | 🚯 Sftp 🕂 Macros K Tools 🔖 Sessions 🌫 | < | Control of the second sec | ry .key termin | al folder | ▲ ▲ ▲ ▲ ▲ ▲ 4 4 4 7 3 0 5 0 0 0 0 0 8 0 8 0 8 0 9 0 8 0 9 0 | nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r-r- nw.r | - 1 - 1 - | root bin bind bin bind bin bind bin bind bin bind bin bind bin bind bin ; 1 da ; 1 da ; 1 da ; 1 da | d 0 04 4 463 4 463 4 755 6 0 8 884 4 10 4 884 4 11 7 10 1 11 7 10 1 11 7 10 1 11 7 10 1 11 7 10 1 11 1 11 | Jun 17 Jun 17 Jun 17 Jun 17 Jun 16 Jun 16 Jun 16 Jun 16 Jun 16 Jun 16 Jun 16 A mind 18 8644 8644) loca 127. 172. 172. 172. 172. 172. 172. | <pre>11:59 0 11:59 0 11:38 0 11:38 0 11:35 0 11:35 0 11:35 0 11:39 0 11:39 0 11:39 0 11:39 0 0 0 0 16:11.4 18:08 1 18:</pre> | minder. named.c named.c named.c named.c named.c sones.r com root.; seri ; refr ; 2008.c ; 200 | .com.key conf.de confide confide confide end end fcl918 .localho resh(1) resh(1) resh(1) resh(1) ref(4) wimum (1) | y fault-z cal tions c.com oost. (week) ay) weeks day) | iones | | | | | | | |

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.



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: minder.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.

| 👼 172.16.11.215 (root) Terminal Sessions View X server Tools Games Settinos Macros Helo | - 0 | × |
|--|---------------|------------------|
| Sesion Servers Tools Games Sesions View Split MultiExec Tunneling Packages Settings Heb | X X server | U Exit |
| Quick connect | ¢ | \$ |
| <pre>rot@ubuntu:/motadata/motadata/utility# ll roow root@ubuntu:/motadata/motadata/utility# ll roow root@ubuntu:/motadata/motadata/motadata/utility# ll roow root@ubuntu:/motadata/motadata/motadata/utility# ll roow root@ubuntu:/motadata/motadata/motadata/utility# ll room root@ubuntu:/motadata/motadata/motadata/utility# ll root@ubuntu:/motadata/motadata/utility# ll root@ubuntu:</pre> | | |
| Follow terminal folder | | |

• Prepare the json with below details:

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

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

eyAiZG5zLXRpbWVvdXQiOiAzMCwgImRucy1zZXJ2ZXItaXAiOiAiMTcyLjE2LjguMjI5IiwgI mRucy1kb21haW4iOiAidGVzdCIsICJyZXBsYWNILXdpdGgtaXAiOiAiMTcyLjE2LjEwLjIzMC IsICJkbnMtdGltZS10by1saXZIIjogMzYwMCwgImRucy16b25IIjogIm5Id3Rlc3QuY3JtMjAx Ni5sb2NhbCIsICJkbnMtdXNIcm5hbWUiOiAiQWRtaW5pc3RyYXRvciIsICJkbnMtcGFzc 3dvcmQiOiAiTWIuZEAxMjMiLCJkbnMtcG9ydCI6NTk4NX0=

• Execute below command to check the setup:

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





Step 8: 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:

| Server Tools Genes Sessions Vew Split MuldExec Tunneling Pedagees Settings Heb X 1 Quick connect C C Reconnect SSH-browser Not1 A 172.16.8.179 Settings Not1 A 172.16.8.179 Not1 A 172.16.8.179 Not1 A 172.16.8.179 Not1 Not2 Not2 <th>Termin</th> <th>nal</th> <th>Sessions</th> <th>View</th> <th>X server</th> <th>Tools</th> <th>Games</th> <th>Settings</th> <th>Macros</th> <th>Help</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | Termin | nal | Sessions | View | X server | Tools | Games | Settings | Macros | Help | | | | | | | |
|---|--|------|---|--------------|-----------|---|--|---|---|--|--------------------------------------|--|---|---------------------------|----------------------------|----------|------|
| Server Tools Games Servers Servers< | 5 | | | 2 | 1 | - 🚖 | | | | | | \geq | 2 | | | X | Ċ |
| Quick connect | Session | n | Servers | Tools | Games | Sessions | View | Split | t MultiEx | ec Tunneling | Packages | s Settings | Help | | | X server | Exit |
| • Reconnect SSH-browser • host-1 • A • 172.16.8.179 • host-2 • A • 172.16.10.230 • atesting • A • 172.16.10.239 • Il • SoRIGIN • Il • NSOA • inder.com • WW • V • V • V | Qui | iick | connec | t | | | 6. 1 | 72.16.8.59 | (root) | × | 8. | 172.16.10.2 | 230 (root) × | 🖲 5. 172.16.11.215 (root) | 🖲 9. 45.116.206.195 (root) | ¢ | |
| qatest2 A 1/2.16.10.230 qatesting A 172.16.10.230 wanhabindtesting A 172.16.10.230 \$TTL 86400 ; 1 day | Stip Anacros K Tools K Sessions A Stip Anacros K Tools K Sessions A | Lick | Reconnect Reconnect : : : : : : : : : : : : : : : : : : : | t ect SSF | H-browsee | er A Size (Size (| GR 1 1051-10 1051-2 | <pre>/72.16.8.69 ////////////////////////////////////</pre> | <pre>(root) ; 1 c ; 1 c ; 1 c ; 1 f ; 1 f ; 1 f ; 1 f ; 1 f ; 1 f ; 1 f ; 1 f ; 1 f</pre> | × A A A A A A A A A A A A A A A A A A A | •••••••••••••••••••••••••••••••••••• | <pre>172:6:02 172:6:02 16:6:17 16:6:17 16:6:17 16:7:16:17 16:7:16:17 16:10:2 16:10:2 16:10:2 16:10:2 16:10:2 16:10:2 10:00 10:</pre> | 230 (root) 99 99 99 99 90 99 99 90 300 30 | 5. 172.16.11.215 (root) | 9.45.118.208.195 (reot) | | Ŷ |

After Fail Over DNS Entry:



| I 172 | 16.8.59 (root) | 15 | | | | | | | | | | | | | | | | | | | - c | 7 | × |
|------------------------------------|---------------------------------------|---------------------|-----------|--|--|---|--|---|---|---|--|---|---|------|--------------|--------|---|-------------|------------|-----|---------|------|------|
| Iermin | al Sessions | i view | A server | | Games Se | ttings | | Help | | × | 6 | 2 | | | | | | | | | X | | сh |
| Sessio | n Servers | Tools | Games | Sessions | View | Split | MultiExec | Tunneling | Packages | Settings | s H | lelp | | | | | | | | | X serve | er i | Exit |
| Qui | ck connec | :t | | | 6. 172. | .16.8.59 (r | root) | × | 8. | 172.16.10. | .230 (ro | oot) | | 5. 1 | 72.16.11.215 | (root) | 9 | . 45.116.20 |)6.195 (ro | ot) | ¢ | | |
| 6 | Reconn | ect SSF | H-browse | er ș | oot@wanh DRIGIN | natest: | ing:/etc | /bind# | cat db. | minder | .com | | | | | | | | | | | | ^ |
| Stip 🛧 Macros 🕷 Tools 🔆 Sessions 📚 | a a a a a a a a a a a a a a a a a a a | tory ty m.key | × 4 1 | sm Sze (4 4 7 3 0 5 5 5 0 0 0 0 0 0 0 0 0 0 0 | DRIGIN r TTL 3604 ev-main: TTL 3604 tp TTL 3604 pst-1 pst-1 pst-1 pst-2 pst-22 stest1 atest1 atest1 atest1 atest2 atest1 atest4 ww pot@wanh | ninder) serve:)0))1 testin 10 natest: | , I da , ; I ho ; I da ; I ho ; I da ; I da ing:/etc | Y IN SO NS A Ur A A A A A A A A A A A A A A A A A | A mind 17 6048 8640 2419 8640 2419 8640 217 172. 172. 172. 172. 172. 172. 172. 172. 172. 172. 172. 172. 172. 172. 172. | er.com 00 0200 0 1host. 16.11.4 16.8.2 16.8.1 16.8.1 16.8.1 16.8.1 16.8.1 16.8.1 16.8.1 16.8.2 16.8.2 16.8.2 16.8.2 16.10.2 16.206 16.206 16.206 | . roo ; se ; re ; re; ; ex ; mi 42 21 79 79 79 79 230 230 230 230 230 231 25 21 | bt.local Frial fresh (btry (1 cpire (nimum (| lhost. ((1 week) day) 4 weeks) (1 day) | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| < | | u torrin | al folder | > | | | | | | | | | | | | | | | | | | | |
| | | w cermin | a rolder | | | | | | | | | | | | | | | | | | | | ~ |

5.1 Notification via E-mail

| Mail - Aakash Sh | hah - Outlook | * | : | - | ٥ | × |
|---|--|---|---|-------|-----|---|
| | I 🗸 🗓 Delete 🚫 Junk Block … | | | | | |
| Motadata | server [172.16.10.230] is down | | | | | |
| Ask Thu I Tec A Mes Secc Prin Stat Secc Stat Not Thai | tash Shah 6/17/2021 5:29 PM Aakash Shah ssage Description : (HA-High Availability) Status condary/Passive server takes over as primary/active because of the failure to receive heartbeats from primary/active server. mary/Active Server : 172.16.10.230 tus : Down condary/Passive Server : 45.116.206.195 tus : Up te: This is an automated message generated by Motadata. ank you! | Ċ | 5 | ≪ , - | → … | |





5.2 Notification in Audit Log

| 🔦 Audits | | | | Export |
|--|---|---------|---------------------|-----------|
| Operation Type Audit Status | | | | |
| All 🗸 | CO Time Range Apply From 17, Jun 2021 12:00:00 AM To 17, Jun 2021 11:59:59 | | | |
| | РМ | | | |
| Q | | | | |
| 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 |
| | | Activa | te Windows | |
| | | Go to S | ettings to activate | Windows. |

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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