



Motadata

Installation Guide

Table of Contents

Table of Contents	2
Copyright Notice.....	3
Notices	4
1 Standalone Installation Guide.....	6
1.1 System Requirements.....	6
1.2 Port Requirements	6
1.3 Download Items	7
1.4 Boot from CD/DVD with ISO.....	7
2 Distributed Installation Guide.....	12
2.1 System Requirements.....	12
2.1.1 Master Server.....	12
2.1.2 RPE Server.....	12
2.1.3 Datanode Server.....	12
2.1.4 Observer Server.....	12
2.2 Boot from CD/DVD with ISO.....	13
3 Configuration Guide:	18
3.1 Master Motadata Server Configuration:.....	18
3.2 RPE Motadata Server Configuration	19
3.3 Datanode Server Configuration:	19

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1 Standalone Installation Guide

1.1 System Requirements

- **Physical Server:** Bare Metal – ISO
- **Supported Hypervisors:** VMware, Hyper-V, Citrix Xen Server
- **CPU:** 8 Core – 64 bit Processor
- **RAM:** 8 GB
- **Storage:** 200 GB

NOTES: System requirement may vary depending upon type of installation size (i.e. Motadata feature license)

1.2 Port Requirements

Port Number	Service/Process
8080	Jetty server HTTP port
8443	Jetty server HTTPS port
8082	H2 DB port
69	TFTP server port
8123	ClickHouse DB port
4150	NSQ port
4160	NSQ lookup port
4161	NSQ lookup port
4171	NSQ lookup port
4151	lookup-http-port
6379	Redis server port
514	Log server UDP port
5140	Log server TCP port
5142	Log secure server TCP port
6343	sFlow port
2055	NetFlow/IPFIX port
9445	Flow internal channel port
5140	Motadata server secure port (Agent)
162	SNMP traps
161	SNMP

1.3 Download Items

- Master ISO
- RPE ISO
- Data Node-Cluster ISO
- Observer ISO

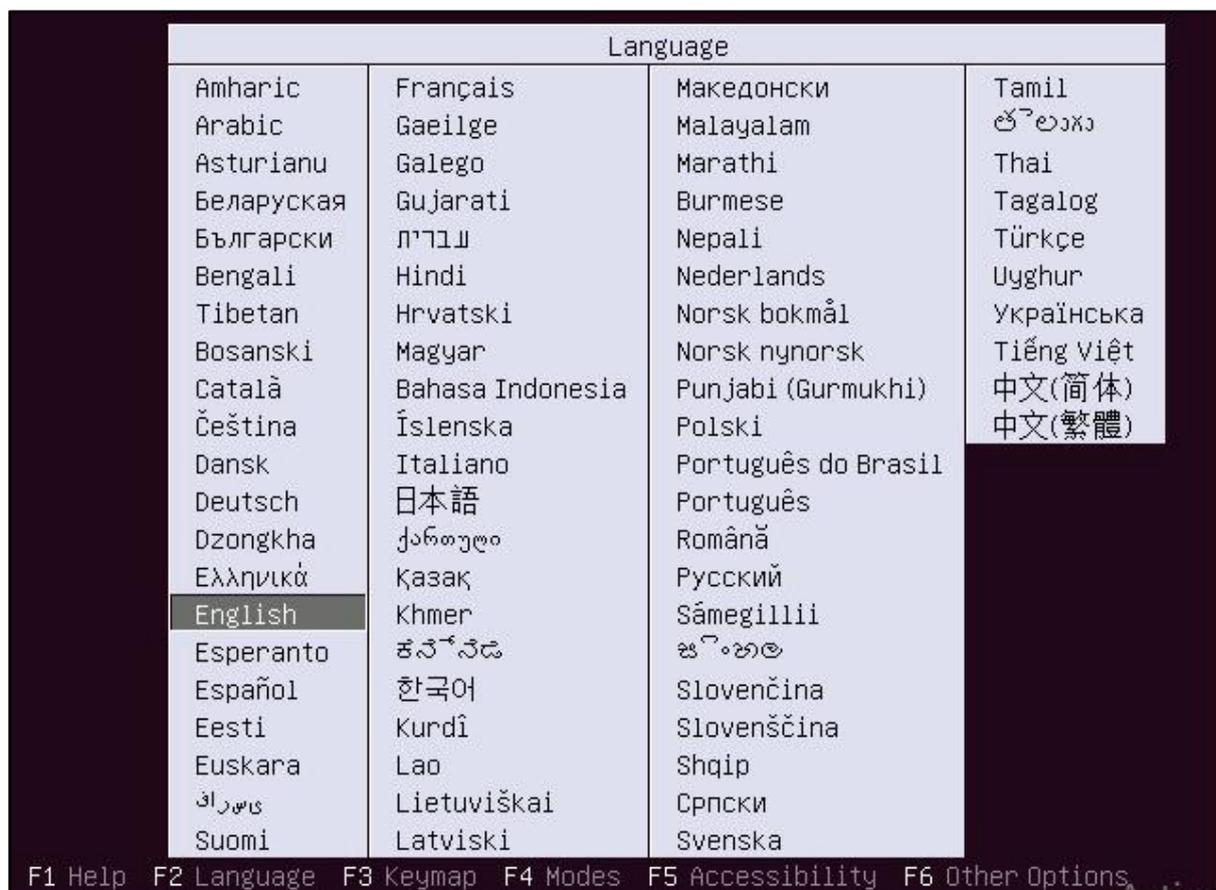
DOWNLOAD LINK WILL BE PROVIDED BY SUPPORT/IMPLEMENTATION ENGINEER.

1.4 Boot from CD/DVD with ISO

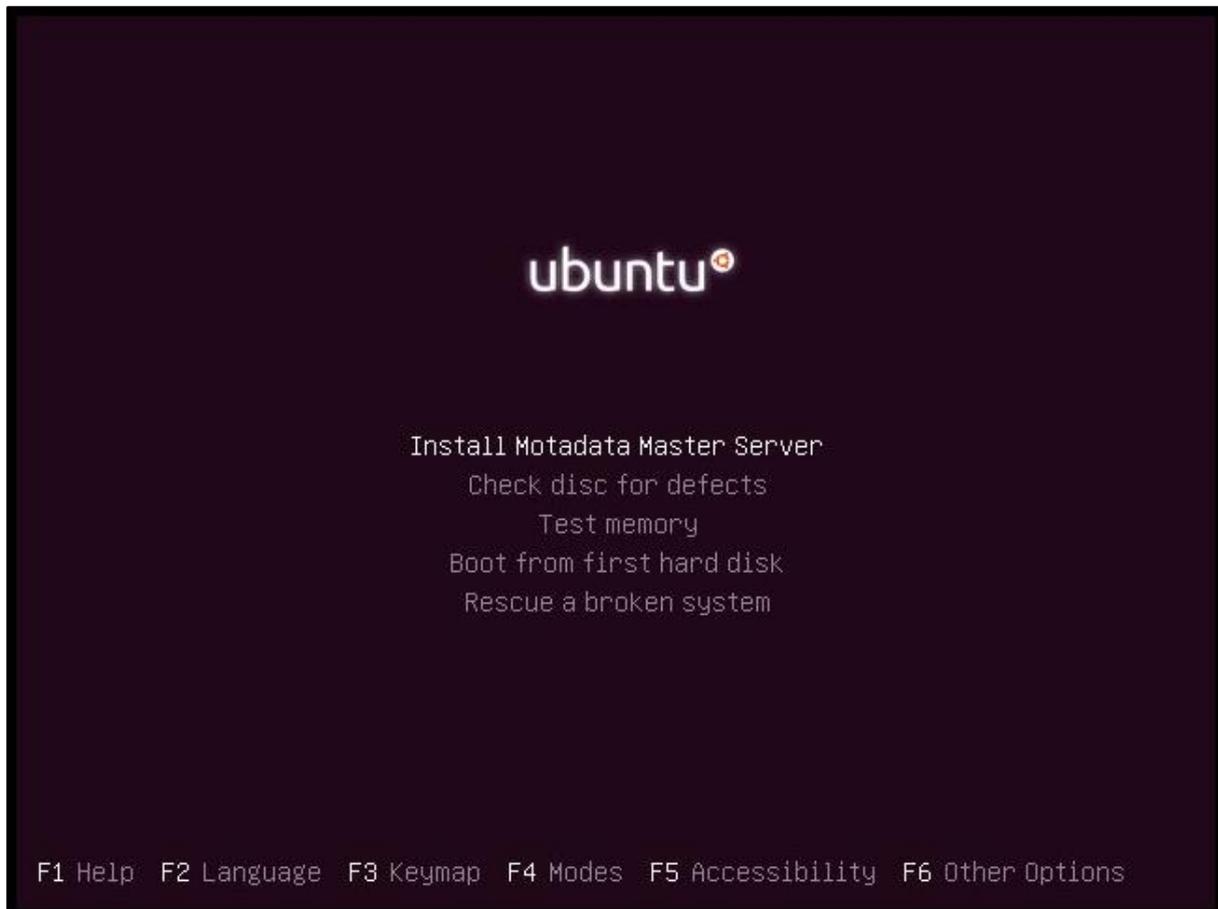
Boot Options

- **Option 1:** To perform Installation on Hypervisor/ EsXi/Xenserver, mount ISO and boot from ISO.
- **Option 2:** To perform installation on Physical Server, boot from CD/DVD.

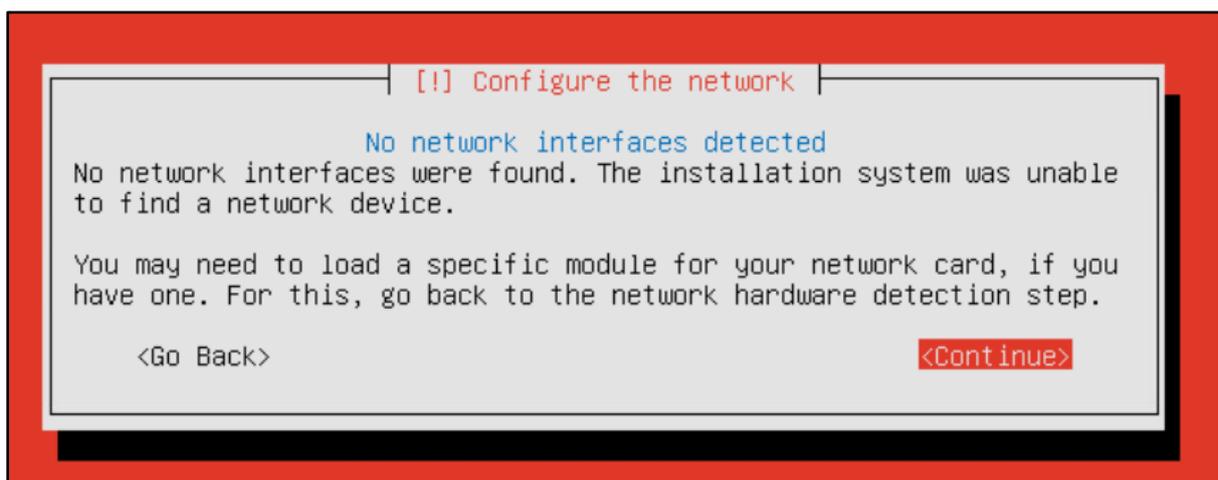
Boot from CD/DVD or with ISO, and it will prompt for language selection select “English”



Select "Install Motadata Master Server",



When no interface is found, Motadata will ask you to 'Continue' or 'Go Back'. Click 'Continue' to keep installation going. Click 'Go Back' to configure the network interface again.



When more than one interfaces are found, Motadata will ask you to choose to interface. The system will select the first interface by default. Press enter to use the selected interface. To choose different interface, use arrow keys to navigate.

```

[!!] Configure the network

Your system has multiple network interfaces. Choose the one to use as
the primary network interface during the installation. If possible,
the first connected network interface found has been selected.

Primary network interface:

ens160: VMware VMXNET3 Ethernet Controller
ens192: VMware VMXNET3 Ethernet Controller

<Go Back>

```

Post installation completion, the system will reboot. Command prompt will open up.

Step 1 – Login using credentials:

- Username: root
- Password: motadata

```

login as: root
root@172.16.10.132's password:
MOTADATA
Last login: Fri Dec 28 14:29:59 2018 from 172.16.10.1
root@ubuntu:~#

```

If you wish to change time zone find mention command (Default time zone is Asia/Kolkata - Optional Setting)

- `root@ubuntu:~#timedatectl set-timezone Asia/Kolkata`

Now set system date and time by using below mentioned command. (Recommended)

- `root@ubuntu:~#date --set "23 FEB 2017 11:06 AM"`

Step 2 – Check system's IP address whether it is assigned properly or not, by default it will take IP address from DHCP server, If DHCP server is not responding during installation, it will ask for Network configuration.

```

root@ubuntu:~# ifconfig
ens160    Link encap:Ethernet  HWaddr 00:50:56:bb:38:f2
          inet addr:172.16.10.132  Bcast:172.16.10.255  Mask:255.255.255.0
          inet6 addr: fe80::250:56ff:febb:38f2/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:4847503 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1666253 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:706383983 (706.3 MB)  TX bytes:452695185 (452.6 MB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:19322464 errors:0 dropped:0 overruns:0 frame:0
          TX packets:19322464 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:8180539083 (8.1 GB)  TX bytes:8180539083 (8.1 GB)

```

Step 3 – To change IP address from DHCP to static, find below mentioned path and configuration.

- `root@ubuntu:~# vim /etc/network/interfaces`

```

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto ens160
iface ens160 inet static
    address 172.16.10.132
    netmask 255.255.255.0
    gateway 172.16.10.1
    broadcast 172.16.10.255
    network 172.16.10.0
    # dns-* Options are implemented by the resolvconf package, if installed
    dns-search pdc.mindarray.com
    dns-nameservers 172.16.10.2 8.8.8.8

```

Step 4 – Press “i” to insert data in “`vim /etc/network/interfaces`” file. After doing necessary changes save file by “`esc`” and after that “`:wq!`”.

Step 5 – Now check for DNS entry in `resolv.conf` file also, and provide server address of your infrastructure.

- `root@ubuntu:~# vim /etc/resolv.conf`

```

# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 192.168.1.2
nameserver 192.168.1.1
search pdc.mindarray.com
~

```

Step 6 – Save file by pressing “esc” and after that “:wq!”

Step 7 – After setting Network configuration, restart system with mentioned command

- `root@localhost:~# init 6`

Step 8 - After system boots now login with same given root credentials, and start motadata service if stopped.

- `root@ubuntu:/motadata/motadata# systemctl start motadata`

Notes:

To check the status run following command

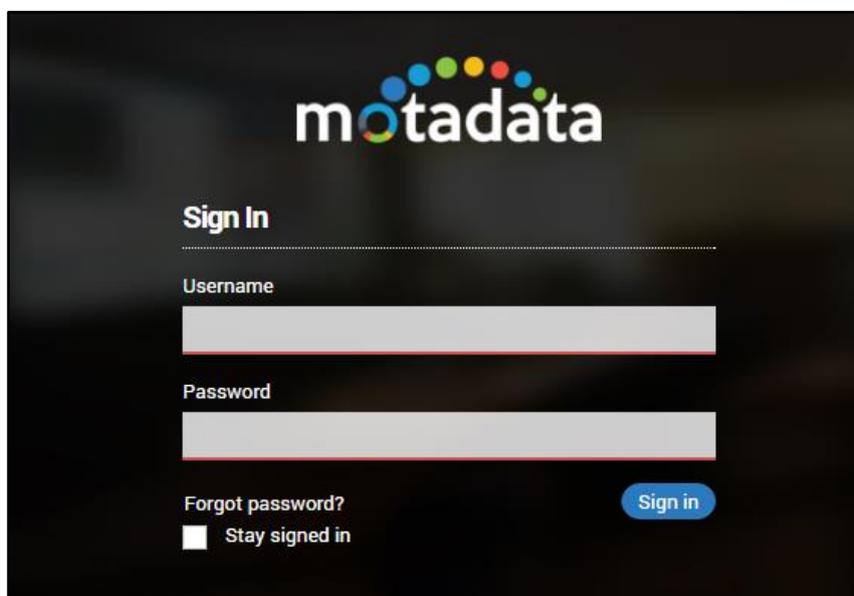
`systemctl status motadata`

To stop the motadata run the following command:

`systemctl stop motadata`

Now Access Motadata From GUI web console using `http://IP Address:8080` (i.e: <http://172.16.10.132:8080>)

- Default Username: admin
- Default Password: admin



Note: Default License 50 Monitors. For license related changes please contact support.

Now that you are done with the installation process, feel free to extensively use our services. Feel free to reach out to us on support@motadata.com.

2 Distributed Installation Guide

2.1 System Requirements

2.1.1 Master Server

Physical Master Server: Bare Metal – ISO

Supported Master Hypervisors: VMware, Hyper-V, Citrix Xen Server

CPU: 8 Core – 64 bit Processor

RAM: 8 GB

Storage: 200 GB

2.1.2 RPE Server

Physical RPE Server: Bare Metal – ISO

Supported RPE Hypervisors: VMware, Hyper-V, Citrix Xen Server

CPU: 8 Core – 64 bit Processor

RAM: 8 GB

Storage: 200 GB

2.1.3 Datanode Server

Physical Datanode Server: Bare Metal – ISO

Supported Datanode Hypervisors: VMware, Hyper-V, Citrix Xen Server

CPU: 4 Core – 64 bit Processor

RAM: 4 GB

Storage: 200 GB (depends on log and flow size)

2.1.4 Observer Server

Physical Observer Server: Bare Metal – ISO

Supported Observer Hypervisors: VMware, Hyper-V, Citrix Xen Server

CPU: 4 Core – 64 bit Processor

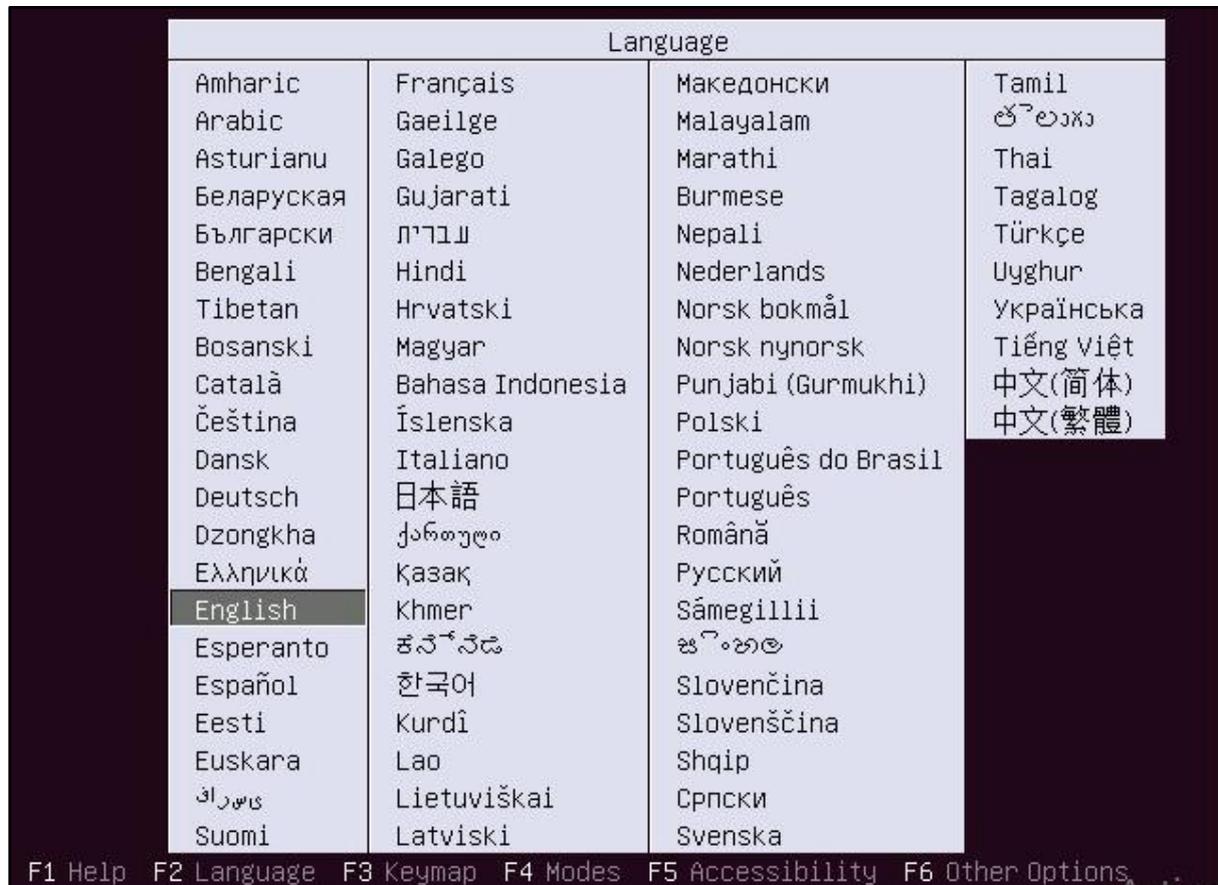
RAM: 4 GB

Storage: 50 GB

NOTES: System requirement may vary depending upon type of installation size (i.e. Motadata feature license)

2.2 Boot from CD/DVD with ISO

Boot from CD/DVD or with ISO, and it will prompt for language selection select “English”.



For Motadata server installation select Motadata “**Install Motadata Master Server**”

Same way you can install RPE, Datanode and Observer:

For RPE Installation select **Install Motadata RPE Server**

For Datanode Installation select **Install Motadata Datanode**.

For Observer Installation select **Install Motadata Observer Server**.



When no interface is found, Motadata will ask you to 'Continue' or 'Go Back'. Click 'Continue' to keep installation going. Click 'Go Back' to configure the network interface again.



When more than one interfaces are found, Motadata will ask you to choose to interface. The system will select the first interface by default. Press enter to use the selected interface. To choose different interface, use arrow keys to navigate.

```

[!!] Configure the network

Your system has multiple network interfaces. Choose the one to use as
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the first connected network interface found has been selected.

Primary network interface:

ens160: VMware VMXNET3 Ethernet Controller
ens192: VMware VMXNET3 Ethernet Controller

<Go Back>

```

Post installation completion, the system will reboot. Command prompt will open up

Step 1 – Login using credentials:

- **Username:** root
- **Password:** motadata

```

login as: root
root@172.16.10.132's password:

MOTADATA

Last login: Fri Dec 28 14:29:59 2018 from 172.16.10.1
root@ubuntu:~# █

```

If you wish to change time zone find mention command (Default time zone is Asia/Kolkata - Optional Setting)

- **root@ubuntu:~#timedatectl set-timezone Asia/Kolkata**

Now set system date and time by using below mentioned command. (Recommended)

- **root@ubuntu:~#date --set "23 FEB 2017 11:06 AM"**

Step 2 – Check system's IP address whether it is assigned properly or not, by default it will take IP address from DHCP server, If DHCP server is not responding during installation, it will ask for Network configuration.

```

root@ubuntu:~# ifconfig
ens160    Link encap:Ethernet  HWaddr 00:50:56:bb:38:f2
          inet addr:172.16.10.132  Bcast:172.16.10.255  Mask:255.255.255.0
          inet6 addr: fe80::250:56ff:febb:38f2/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:4847503 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1666253 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:706383983 (706.3 MB)  TX bytes:452695185 (452.6 MB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:19322464 errors:0 dropped:0 overruns:0 frame:0
          TX packets:19322464 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:8180539083 (8.1 GB)  TX bytes:8180539083 (8.1 GB)

```

Step 3 – To change IP address from DHCP to static, find below mentioned path and configuration.

- `root@ubuntu:~# vim /etc/network/interfaces`

```

root@ubuntu:~# ifconfig
ens160    Link encap:Ethernet  HWaddr 00:50:56:bb:38:f2
          inet addr:172.16.10.132  Bcast:172.16.10.255  Mask:255.255.255.0
          inet6 addr: fe80::250:56ff:febb:38f2/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:4847503 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1666253 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:706383983 (706.3 MB)  TX bytes:452695185 (452.6 MB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:19322464 errors:0 dropped:0 overruns:0 frame:0
          TX packets:19322464 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:8180539083 (8.1 GB)  TX bytes:8180539083 (8.1 GB)

```

Step 4 – Press “i” to insert data in “vim /etc/network/interfaces” file, After doing necessary changes save file by “esc” and after that “:wq!”.

Step 5 – Now check for DNS entry in resolv.conf file also, and provide server address of your infrastructure.

- `root@ubuntu:~# vim /etc/resolv.conf`

```

# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN
nameserver 192.168.1.2
nameserver 192.168.1.1
search pdc.mindarray.com
~

```

Step 6 – Save file by pressing “esc” and after that “:wq!”

Step 7 – After setting Network configuration, kindly restart system with mentioned command

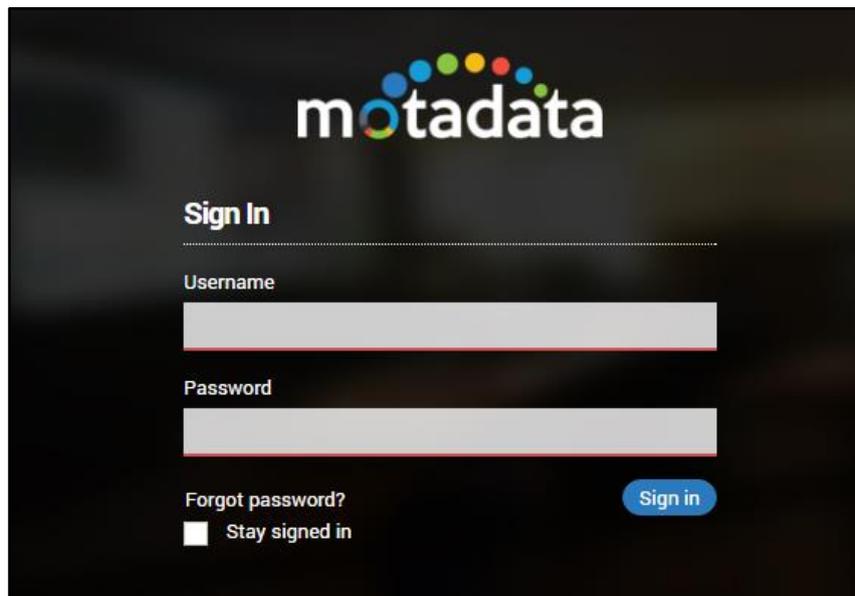
- `root@localhost:~# init 6`

Step 8 – Follow the step from Configuration guide section.

Step 9 – Now login with same given root credentials,

Now Access Motadata From GUI web console using `http://IP Address:8080` (i.e: <http://172.16.10.132:8080>)

- Default Username: admin,
- Default Password: admin



Note: Default License 50 Monitors. For license related changes please contact support.

Now that you are done with the installation process, feel free to extensively use our services. Feel free to reach out to us on support@motadata.com.

3 Configuration Guide:

3.1 Master Motadata Server Configuration:

Take SSH of Master Motadata Server

Stop the motadata service if running.

Go to /motadata/motadata/config

Open **motadata-conf.yml** file and configure

Set installation-type: 1

As per client requirement configure following flag:

If you require to enable configure **yes** and for disable configure **no**:

log-engine: yes

flow-engine: yes

ncm-engine: yes

sla-engine: yes

trap-engine: yes

alert-correlation-engine: yes [If exist]

Open **rpe-conf.yml** file and configure as per below:

#https rpe master host

host: <Master Motadata Server IP Address>

#rpe client host

rpe-host: <current_machine_rpe_client_address>

Open **ncm-conf** file and configure as per below:

#tftp server ip/host address

tftp-server-host: <Master Motadata Server IP Address>

Open **db-engine-conf** file and configure as per below:

#db engine host

host: <Datanode IP Address>

Open **rest-api-url** file and configure as per below [For GIS Integration if exist]:

#interface update details

interface-update : http://<IP Address>:<Port>/api/Port/PortMasterData

3.2 RPE Motadata Server Configuration

Take SSH of RPE Master Motadata Server

Stop the motadata service if running.

Copy plugins and plugin-lib folder in RPE Motadata server from Master Motadata server.

Go to /motadata/motadata/config

Open **motadata-conf.yml** file and configure

Verify installation-type: 2

Set following flag same as per the Master Motadata server **motadata-conf.yml**.

ncm-engine: yes

sla-engine: yes

alert-correlation-engine: yes [if exist]

Open **rpe-conf.yml** file and configure

#https rpe master host

host: <Motadata Master Server IP Address>

#rpe client host

rpe-host: <RPE Motadata Server IP Address>

Open **ncm-conf** file and configure as per below:

#tftp server ip/host address

tftp-server-host: <RPE Motadata Server IP Address>

3.3 Datanode Server Configuration:

Take SSH of Datanode Server

Stop the Clickhouse service if running.

Go to /etc/clickhouse-server

Open **config.xml** file and configure as per below:

Find following line and set datanode IP address

```
<!-- <listen_host>::1</listen_host>-->
```

```
<listen_host>::1</listen_host>
```

```
<listen_host><Datanode IP Address></listen_host>
```

Now Start the services in below order:

1. Start the Clickhouse Service on Datanode Server.
root@ubuntu:~# systemctl start clickhouse-server
Notes: Ensure Datanode IP Address should start listen on 8123 port.
2. Start the Motadata Service on Master Server.
root@ubuntu:/motadata/motadata# systemctl start motadata
3. Start the Motadata Service on RPE Server.
root@ubuntu:/motadata/motadata# systemctl start motadata

Keep in touch

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