

Install Graylog Server on CentOS 8

```
[root@observium ~]# yum install java-1.8.0-openjdk-headless.x86_64 -y
```

```
[root@observium ~]# vim /etc/yum.repos.d/mongodb-org.repo
[root@observium ~]# yum install java-1.8.0-openjdk-headless.x86_64 -y
Last metadata expiration check: 0:05:21 ago on Sat 10 Dec 2022 10:25:53 AM +06.
Package java-1.8.0-openjdk-headless-1:1.8.0.322.b06-11.el8.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

```
[root@observium ~]# vim /etc/yum.repos.d/mongodb-org.repo
```

```
[mongodb-org-4.0]
name=MongoDB Repository
baseurl=https://repo.mongodb.org/yum/redhat/8Server/mongodb-org/4.0/x86_64/
gpgcheck=1
enabled=1
gpgkey=https://www.mongodb.org/static/pgp/server-4.0.asc
```

```
[mongodb-org-4.0]
name=MongoDB Repository
baseurl=https://repo.mongodb.org/yum/redhat/8Server/mongodb-org/4.0/x86_64/
gpgcheck=1
enabled=1
gpgkey=https://www.mongodb.org/static/pgp/server-4.0.asc
```

```
[root@observium ~]# yum install mongodb-org -y
```

```
[root@observium ~]# vim /etc/yum.repos.d/mongodb-org.repo
[root@observium ~]# yum install mongodb-org
MongoDB Repository
Dependencies resolved.
13 kB/s | 19 kB | 00:01
```

Package	Architecture	Version	Repository	Size
Installing:				
mongodb-org	x86_64	4.0.28-1.el8	mongodb-org-4.0	11 k
Installing dependencies:				
mongodb-org-mongos	x86_64	4.0.28-1.el8	mongodb-org-4.0	9.7 M
mongodb-org-server	x86_64	4.0.28-1.el8	mongodb-org-4.0	17 M
mongodb-org-shell	x86_64	4.0.28-1.el8	mongodb-org-4.0	10 M
mongodb-org-tools	x86_64	4.0.28-1.el8	mongodb-org-4.0	39 M
Transaction Summary				
Install 5 Packages				

```
[root@observium ~]# systemctl enable mongod.service
```

```
[root@observium ~]# systemctl restart mongod.service
```

```
[root@observium ~]# systemctl start mongod.service
```

```
[root@observium ~]# systemctl status mongod.service
```

```
[root@observium ~]# systemctl status mongod.service
● mongod.service - MongoDB Database Server
   Loaded: loaded (/usr/lib/systemd/system/mongod.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2022-12-10 10:37:45 +06; 35s ago
     Docs: https://docs.mongodb.org/manual
   Process: 49029 ExecStart=/usr/bin/mongod $OPTIONS (code=exited, status=0/SUCCESS)
   Process: 49027 ExecStartPre=/usr/bin/chmod 0755 /var/run/mongod (code=exited, status=0/SUCCESS)
   Process: 49026 ExecStartPre=/usr/bin/chown mongod:mongod /var/run/mongod (code=exited, status=0/SUCCESS)
   Process: 49024 ExecStartPre=/usr/bin/mkdir -p /var/run/mongod (code=exited, status=0/SUCCESS)
  Main PID: 49032 (mongod)
    Memory: 50.6M
   CGroup: /system.slice/mongod.service
           └─49032 /usr/bin/mongod -f /etc/mongod.conf
```

```
[root@observium ~]# rpm --import https://artifacts.elastic.co/GPG-KEY-elasticsearch
```

```
[root@observium ~]# rpm --import https://artifacts.elastic.co/GPG-KEY-elasticsearch  
[root@observium ~]# vim /etc/yum.repos.d/elasticsearch.repo
```

```
[root@observium ~]# vim /etc/yum.repos.d/elasticsearch.repo
```

```
[elasticsearch-7.10.2]  
name=Elasticsearch repository for 7.10.2 packages  
baseurl=https://artifacts.elastic.co/packages/oss-7.x/yum  
gpgcheck=1  
gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch  
enabled=1  
autorefresh=1  
type=rpm-md
```

```
[elasticsearch-7.10.2]  
name=Elasticsearch repository for 7.10.2 packages  
baseurl=https://artifacts.elastic.co/packages/oss-7.x/yum  
gpgcheck=1  
gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch  
enabled=1  
autorefresh=1  
type=rpm-md
```

```
[root@observium ~]# yum install elasticsearch-oss -y
```

```
[root@observium ~]# yum install elasticsearch-oss -y  
Elasticsearch repository for 7.10.2 packages  
Last metadata expiration check: 0:00:10 ago on Sat 10 Dec 2022 10:45:15 AM +06.  
Package elasticsearch-oss-6.8.23-1.noarch is already installed.  
Dependencies resolved.  
=====
```

Package	Architecture	Version	Repository	Size
Upgrading: elasticsearch-oss	x86_64	7.10.2-1	elasticsearch-7.10.2	220 M

```
=====
```

Transaction Summary			
Upgrade 1 Package			
Total download size: 220 M			
Downloading Packages:			
elasticsearch-oss-7.10.2-x86_64.rpm		2.8 MB/s 220 MB	01:19

Total		2.8 MB/s 220 MB	01:19

```
=====
```

Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction

```
[root@observium ~]# systemctl enable elasticsearch.service
```

```
[root@observium ~]# systemctl enable elasticsearch.service  
Synchronizing state of elasticsearch.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.  
Executing: /usr/lib/systemd/systemd-sysv-install enable elasticsearch
```

```
[root@observium ~]# systemctl restart elasticsearch.service
```

```
[root@observium ~]# systemctl start elasticsearch.service
```

```
[root@observium ~]# systemctl status elasticsearch.service
```

```
[root@observium ~]# systemctl status elasticsearch.service
● elasticsearch.service - Elasticsearch
   Loaded: loaded (/usr/lib/systemd/system/elasticsearch.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2022-12-10 10:49:57 +06; 22s ago
     Docs: https://www.elastic.co
   Main PID: 49906 (java)
    Tasks: 46 (limit: 8038)
   Memory: 510.9M
   CGroup: /system.slice/elasticsearch.service
           └─49906 /usr/share/elasticsearch/jdk/bin/java -Xshare:auto -Des.networkaddress.cache.ttl=60
```

```
[root@observium ~]# yum install epel-release -y
```

```
[root@observium ~]# yum install epel-release -y
Last metadata expiration check: 0:07:21 ago on Sat 10 Dec 2022 10:45:15 AM +06.
Package epel-release-8-18.el8.noarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

```
[root@observium ~]# yum install pwgen -y
```

```
[root@observium ~]# dnf install -y wget pwgen perl-Digest-SHA
Extra Packages for Enterprise Linux 8 - x86_64
Extra Packages for Enterprise Linux 8 - x86_64
RPMs Common to All OpenNMS Architectures (stable)
RPMs Common to All OpenNMS Architectures (stable)
RedHat Enterprise Linux 8.x and CentOS 8.x (stable)
Remi's Modular repository for Enterprise Linux 8 - x86_64
Remi's Modular repository for Enterprise Linux 8 - x86_64
Safe Remi's RPM repository for Enterprise Linux 8 - x86_64
Safe Remi's RPM repository for Enterprise Linux 8 - x86_64
Package wget-1.19.5-10.el8.x86_64 is already installed.
Package perl-Digest-SHA-1.6.02-1.el8.x86_64 is already installed.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing: pwgen	x86_64	2.08-3.el8	epel	31 k

```
Transaction Summary
Install 1 Package
```

```
[root@observium ~]# rpm -Uvh https://packages.graylog2.org/repo/packages/graylog-4.0-repository_latest.rpm
```

```
Complete.
[root@observium ~]# rpm -Uvh https://packages.graylog2.org/repo/packages/graylog-4.0-repository_latest.rpm
Retrieving https://packages.graylog2.org/repo/packages/graylog-4.0-repository_latest.rpm
Verifying... ##### [100%]
Preparing... ##### [100%]
Updating / installing...
 1:graylog-4.0-repository-1-2 ##### [100%]
```

```
[root@observium ~]# yum install graylog-server -y
```

```
[root@observium ~]# yum install graylog-server -y
graylog
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing: graylog-server	noarch	4.0.17-1	graylog	180 M

```
Transaction Summary
Install 1 Package

Total download size: 180 M
Installed size: 180 M
Downloading Packages:
graylog-server-4.0.17-1.noarch.rpm
Total
graylog
Importing GPG key 0xB1606F22:
```

```
[root@observium ~]# pwgen -N 1 -s 96
```

```
CtDrqiRCukdKj8U6ONXoMwDkn4zuLyhILHRzNbnRylmAW66hl55iFQERxmaPS47fakKbIfEoAhdmZ23q9JQ4NL9adYZPchz
```

```
[root@observium ~]#  
[root@observium ~]# pwgen -N 1 -s 96  
CtDrqiRCukdKj8U6ONXoMwDkn4zuLyhILHRzNbnRylmAW66hl55iFQERxmaPS47fakKbIfEoAhdmZ23q9JQ4NL9adYZPchz
```

```
[root@observium ~]# vim /etc/graylog/server/server.conf
```

```
# You MUST set a secret to secure/pepper the stored user passwords here. Use at least 64 characters.  
# Generate one by using for example: pwgen -N 1 -s 96  
# ATTENTION: This value must be the same on all Graylog nodes in the cluster.  
# Changing this value after installation will render all user sessions and encrypted values in the database invalid (e.g. encrypted access tokens)  
password_secret = CtDrqiRCukdKj8U6ONXoMwDkn4zuLyhILHRzNbnRylmAW66hl55iFQERxmaPS47fakKbIfEoAhdmZ23q9JQ4NL9adYZPchz  
# the default root user is named 'admin'
```

```
[root@observium ~]# echo -n "Enter Password: " && head -1 </dev/stdin | tr -d '\n' | sha256sum | cut -d" " -f1
```

Enter Password: ikbal

```
dd3641f3099e62da17f7aa73388e8a9ba7bc7b3034202dd39750d2181c61dce5
```

```
# You MUST specify a hash password for the root user (which you only need to initially set up the  
# system and in case you lose connectivity to your authentication backend)  
# This password cannot be changed using the API or via the web interface. If you need to change it,  
# modify it in this file.  
# Create one by using for example: echo -n yourpassword | shasum -a 256  
# and put the resulting hash value into the following line  
root_password_sha2 = dd3641f3099e62da17f7aa73388e8a9ba7bc7b3034202dd39750d2181c61dce5
```

```
[root@observium ~]# pwgen -N 1 -s 96  
CtDrqiRCukdKj8U6ONXoMwDkn4zuLyhILHRzNbnRylmAW66hl55iFQERxmaPS47fakKbIfEoAhdmZ23q9JQ4NL9adYZPchz  
[root@observium ~]# vim /etc/graylog/server/server.conf  
[root@observium ~]# echo -n "Enter Password: " && head -1 </dev/stdin | tr -d '\n' | sha256sum | cut -d" " -f1  
Enter Password: ikbal  
root_password  
dd3641f3099e62da17f7aa73388e8a9ba7bc7b3034202dd39750d2181c61dce5
```

```
[root@observium ~]# vim /etc/graylog/server/server.conf
```

Server IP address:

```
# Default: 127.0.0.1:9000  
http_bind_address = 10.200.10.52:9000  
#http_bind_address = [2001:db8::1]:9000
```

```
[root@observium ~]# systemctl enable graylog-server.service
```

Synchronizing state of graylog-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.

Executing: /usr/lib/systemd/systemd-sysv-install enable graylog-server

Created symlink /etc/systemd/system/multi-user.target.wants/graylog-server.service → /usr/lib/systemd/system/graylog-server.service.

```
[root@observium ~]# systemctl restart graylog-server.service
```

```
[root@observium ~]# systemctl start graylog-server.service
```

```
[root@observium ~]# systemctl status graylog-server.service
```

```
[root@observium ~]# systemctl status graylog-server.service
● graylog-server.service - Graylog server
   Loaded: loaded (/usr/lib/systemd/system/graylog-server.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2022-12-10 11:10:34 +06; 27s ago
     Docs: http://docs.graylog.org/
    Main PID: 52458 (graylog-server)
      Tasks: 16 (limit: 8038)
     Memory: 647.2M
    CGroup: /system.slice/graylog-server.service
            └─52458 /bin/sh /usr/share/graylog-server/bin/graylog-server
              └─52481 /usr/bin/java -Xms1g -Xmx1g -XX:NewRatio=1 -server -XX:+ResizeTLAB -XX:-OmitStackTr
```

```
[root@observium ~]#
```

```
[root@observium ~]# setsebool -P httpd_can_network_connect 1
```

```
[root@observium ~]# sudo semanage port -a -t mongod_port_t -p tcp 27017
```

```
[root@observium ~]# firewall-cmd --zone=public --add-port=9000/tcp --permanent
```

success

```
[root@observium ~]# firewall-cmd --reload
```

Success

```
[root@observium ~]# firewall-cmd --list-all
```

```
public (active)
target: default
icmp-block-inversion: no
interfaces: ens160
sources:
services: cockpit dhcpv6-client http mysql ssh
ports: 9000/tcp
protocols:
forward: no
masquerade: no
forward-ports:
source-ports:
icmp-blocks:
rich rules:
```

```
[root@observium ~]# systemctl enable graylog-server.service
```

Synchronizing state of graylog-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.

Executing: /usr/lib/systemd/systemd-sysv-install enable graylog-server

```
[root@observium ~]# systemctl start graylog-server.service
```

```
[root@observium ~]# systemctl daemon-reload
```

```
[root@observium ~]# systemctl enable mongod.service
```

```
[root@observium ~]# systemctl start mongod.service
```

```
[root@observium ~]# systemctl enable elasticsearch.service
```

Synchronizing state of elasticsearch.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.

Executing: /usr/lib/systemd/systemd-sysv-install enable elasticsearch

```
[root@observium ~]# systemctl restart elasticsearch.service
```

```
[root@observium ~]# systemctl enable graylog-server.service
```

Synchronizing state of graylog-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.

Executing: /usr/lib/systemd/systemd-sysv-install enable graylog-server

```
[root@observium ~]# systemctl start graylog-server.service
```

```
[root@observium ~]#
```

Source link:

https://go2docs.graylog.org/5-0/downloading_and_installing_graylog/red_hat_installation.htm?tocpath=Downloading%20and%20Installing%20Graylog%7CInstalling%20Graylog%7C_____7

https://www.youtube.com/watch?v=UXBOAugUoko&ab_channel=SEKANLINPRINCIPE

<https://github.com/kipling752/monitoring/blob/main/configuration%20graylog>

Log Server Log Add PORT Use korta hoy

Log Server Log Router Add:

```
[root@flow ~]# vim /etc/rsyslog.conf
```

```
# The imjournal module bellow is now used as a message source instead of imuxsock.  
$ModLoad imuxsock # provides support for local system logging (e.g. via logger command)  
$ModLoad imjournal # provides access to the systemd journal  
#$ModLoad imklog # reads kernel messages (the same are read from journald)  
#$ModLoad immermark # provides --MARK-- message capability
```

```
# Provides UDP syslog reception
```

```
$ModLoad imudp
```

```
$UDPServerRun 514
```

```
$ModLoad imtcp
```

```
$InputTCPServerRun 514
```

```
$UDPServerRun 5004 #Banani POP Router
```

```
$UDPServerRun 3990 #Home-Premium Router
```

```
$UDPServerRun 3991 #Home-Economy-1 Router
```

```
$UDPServerRun 3992 #MAC-1
```

```
$UDPServerRun 3993 #MAC-2
```

```
$UDPServerRun 3994 #Home-Economy-2 Router
```

```
$UDPServerRun 4000
```

```
$UDPServerRun 4001
```

```
# Provides TCP syslog reception
```

```
$ModLoad imtcp
```

```
#$InputTCPServerRun 514
```

```
$InputTCPServerRun 4000
```

```
#### GLOBAL DIRECTIVES ####
```

```
# Where to place auxiliary files
```

```
$WorkDirectory /var/lib/rsyslog
```

```
# Use default timestamp format
```

```
$ActionFileDefaultTemplate RSYSLOG_TraditionalFileFormat
```

```
# File syncing capability is disabled by default. This feature is usually not required,
```

```
# not useful and an extreme performance hit
```

```
#$ActionFileEnableSync on
```

```
# Include all config files in /etc/rsyslog.d/
```

```
$IncludeConfig /etc/rsyslog.d/*.conf
```

```

# Turn off message reception via local log socket;
# local messages are retrieved through imjournal now.
$OmitLocalLogging on

# File to store the position in the journal
$IMJournalStateFile imjournal.state

# Log anything (except mail) of level info or higher.
# Don't log private authentication messages!
#*.info;mail.none;authpriv.none;cron.none @127.0.0.1:5140 /var/log/messages
#For Filtering unauthorised logs
#:.msg, contains, "I-NET" /var/log/inet
#*. * /var/log/inet
#:.hostname ,isequal, "I-NET" ~
# The authpriv file has restricted access.
authpriv.* /var/log/secure

# Log all the mail messages in one place.
mail.* -/var/log/maillog

# Log cron stuff
cron.* /var/log/cron

# Everybody gets emergency messages
*.emerg :omusrmsg:*

# Save news errors of level crit and higher in a special file.
uucp,news.crit /var/log/spooler

# Save boot messages also to boot.log
local7.* /var/log/boot.log

```

```

# The imjournal module bellow is now used as a message source instead of imuxsock.
$ModLoad imuxsock # provides support for local system logging (e.g. via logger command)
$ModLoad imjournal # provides access to the systemd journal
#$ModLoad imklog # reads kernel messages (the same are read from journald)
#$ModLoad immark # provides --MARK-- message capability

# Provides UDP syslog reception
$ModLoad imudp
$UDPServerRun 514
$ModLoad imtcp
$InputTCPServerRun 514
$UDPServerRun 5004 #Banani POP Router
$UDPServerRun 3990 #Home-Premium Router
$UDPServerRun 3991 #Home-Economy-1 Router
$UDPServerRun 3992 #MAC-1
$UDPServerRun 3993 #MAC-2
$UDPServerRun 3994 #Home-Economy-2 Router
$UDPServerRun 4000
$UDPServerRun 4001
$UDPServerRun 4002

```



```

# Provides TCP syslog reception
$ModLoad imtcp
#$InputTCPServerRun 514
$InputTCPServerRun 4000

#### GLOBAL DIRECTIVES ####

# Where to place auxiliary files
$WorkDirectory /var/lib/rsyslog

# Use default timestamp format
$ActionFileDefaultTemplate RSYSLOG_TraditionalFileFormat

# File syncing capability is disabled by default. This feature is usually not required,
# not useful and an extreme performance hit
#$ActionFileEnableSync on

# Include all config files in /etc/rsyslog.d/
$IncludeConfig /etc/rsyslog.d/*.conf

# Turn off message reception via local log socket;
# local messages are retrieved through imjournal now.
$OmitLocalLogging on

# File to store the position in the journal
$IMJournalStateFile imjournal.state

# The authpriv file has restricted access.
authpriv.* /var/log/secure

# Log all the mail messages in one place.
mail.* -/var/log/maillog

# Log cron stuff
cron.* /var/log/cron

# Everybody gets emergency messages
*.emerg :omusrmsg:*

# Save news errors of level crit and higher in a special file.
uucp,news.crit /var/log/spooler

# Save boot messages also to boot.log
local7.* /var/log/boot.log

# #### begin forwarding rule ####
# The statement between the begin ... end define a SINGLE forwarding
# rule. They belong together, do NOT split them. If you create multiple
# forwarding rules, duplicate the whole block!
# Remote Logging (we use TCP for reliable delivery)
#
# An on-disk queue is created for this action. If the remote host is
# down, messages are spooled to disk and sent when it is up again.
#$ActionQueueFileName fwdRule1 # unique name prefix for spool files
#$ActionQueueMaxDiskSpace 2gb # 1gb space limit (use as much as possible)
#$ActionQueueSaveOnShutdown on # save messages to disk on shutdown
#$ActionQueueType LinkedList # run asynchronously
#$ActionResumeRetryCount -1 # infinite retries if host is down
# remote host is: name/ip:port, e.g. 192.168.0.1:514, port optional
#*. * @remote-host:514
*. * @127.0.0.1:5140

# #### end of the forwarding rule ####

```