**Gearman, RabbitMQ & Composer on centos7**

**Gearman Installation**

URL : <https://blog.karatos.in/a?ID=01550-5f49c4f8-7970-40d1-87cc-8cb23ac5c80b>

* Update Centos-7

sudo yum -y install epel-release  
sudo yum -y update

* Dependencies required by Gearman

yum install vim git gcc gcc-c++ wget make gperf automake autoconf boost-devel libuuid-devel libevent-devel

* Install Gearman

wget <https://launchpad.net/gearmand/1.2/1.1.12/+download/gearmand-1.1.12.tar.gz>

tar -xzf gearmand-1.1.12.tar.gz  
cd gearmand-1.1.12  
./configure  
make  
make intall

## Create gearman user

useradd -s/sbin/nologin -M gearman  
mkdir -p /usr/local/gearman/var/  
chown -R gearman:gearman/usr/local/gearman/  
chown -R gearman:gearman /usr/local/gearman/

* Start gearman and set it to boot

cd /etc/systemd/system  
vim gearman.service **{paste below conf in file}**

[Unit]  
Description=Start gearman on boot.  
After=default.target network.target

[Service]  
User=root  
Group=root  
Type=forking  
PIDFile=/usr/local/gearman/var/log/gearmand.pid  
ExecStart=/usr/local/sbin/gearmand --log-file=/usr/local/gearman/var/log/gearmand.log --pid-file=/usr/local/gearman/var/log/gearmand.pid -d  
ExecReload=/bin/kill -s HUP $MAINPID  
ExecStop=/bin/kill -s QUIT $MAINPID  
PrivateTmp=false  
Restart=always  
[Install]  
WantedBy=multi-user.target

## Modify file permissions so that only root users can edit the file

chown -R root:root /etc/systemd/system/gearman.service  
chmod -R 644 /etc/systemd/system/gearman.service

## Update systemd

systemctl daemon-reload  
systemctl start grearman  
systemctl enable grearman

## Install php extension

wget <https://github.com/wcgallego/pecl-gearman/archive/gearman-2.0.3.tar.gz>  
tar -xzf gearman-2.0.3.tar.gz  
cd pecl-gearman-gearman-2.0.3  
./configure  
make  
make install  
locate php.ini  
vim /etc/php.ini {**Add below extension in the bottom of the file**}  
 extension=gearman.so

## Restart Web server

systemctl status http  
systemctl restart http  
php -m | grep gearman

## Installing the Aerospike PHP Extension

URL : <https://github.com/aerospike/aerospike-client-php#:~:text=To%20build%20the%20PHP%20extension,script%20in%20the%20src%2F%20directory.&text=This%20will%20download%20the%20Aerospike,c%2F%20%2C%20and%20initiate%20make%20>.

## Step -1 dependencies

sudo yum groupinstall "Development Tools"  
sudo yum install openssl-devel

sudo yum install php-pear

## Step -2 building with composer

composer require aerospike/aerospike-client-php ~7.0

find vendor/aerospike/aerospike-client-php/ -name "\*.sh" -exec chmod +x {} \;

cd vendor/aerospike/aerospike-client-php/ && sudo composer run-script post-install-cmd

cd src

./build.sh

make install

php -i | grep ".ini "

add in php.in

extension=aerospike.so

php -m | grep aerospike

aerospike

**Composer Installation**

URL : <https://phoenixnap.com/kb/how-to-install-and-use-php-composer-on-centos-7>

* Update Centos-7

sudo yum -y install epel-release  
sudo yum -y update

### Install Software Dependencies

yum install php-cli php-zip wget unzip

### Download Composer Installer Script

php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"

### Verify Integrity of the Download

HASH="$(wget -q -O - <https://composer.github.io/installer.sig>)"

php -r "if (hash\_file('SHA384', 'composer-setup.php') === '$HASH') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP\_EOL;"

### Verify Integrity of the Download

php composer-setup.php --install-dir=/usr/local/bin --filename=composer

composer -v

**RABBITMQ Installation**

URL : <https://computingforgeeks.com/installing-rabbitmq-on-centos-fedora/>

## Step 1: Install Erlang on CentOS 7

## curl -s https://packagecloud.io/install/repositories/rabbitmq/erlang/script.rpm.sh | sudo bash

## or

$ **sudo vim /etc/yum.repos.d/rabbitmq\_erlang.repo**

[rabbitmq\_erlang]  
name=rabbitmq\_erlang  
aseurl=https://packagecloud.io/rabbitmq/erlang/el/7/$basearch  
repo\_gpgcheck=1  
gpgcheck=0  
enabled=1  
gpgkey=https://packagecloud.io/rabbitmq/erlang/gpgkey  
sslverify=1  
sslcacert=/etc/pki/tls/certs/ca-bundle.crt  
metadata\_expire=300

sudo yum clean all

sudo yum makecache

sudo yum install erlang

## Step 2: Install RabbitMQ on CentOS 7

curl -s https://packagecloud.io/install/repositories/rabbitmq/rabbitmq-server/script.rpm.sh | sudo bash

or

$ *sudo vim /etc/yum.repos.d/rabbitmq\_rabbitmq-server.repo*

[rabbitmq\_rabbitmq-server]

name=rabbitmq\_rabbitmq-server

baseurl=https://packagecloud.io/rabbitmq/rabbitmq-server/el/7/$basearch

repo\_gpgcheck=1

gpgcheck=0

enabled=1

gpgkey=https://packagecloud.io/rabbitmq/rabbitmq-server/gpgkey

sslverify=1

sslcacert=/etc/pki/tls/certs/ca-bundle.crt

metadata\_expire=300

sudo yum install rabbitmq-server

*rpm -qi rabbitmq-server*

### **Step 3: Start RabbitMQ Service**

sudo systemctl start rabbitmq-server

sudo systemctl enable rabbitmq-server

### **Step 4: Enable the RabbitMQ Management Dashboard**

sudo rabbitmq-plugins enable rabbitmq\_management

sudo ss -tunelp | grep 15672