LAMP Installion WITH ALL SERVICES:

sudo yum update -y

sudo yum install nano curl wget bind-utils telnet

Apache HTTP & HTTPS

sudo yum install -y httpd mod_ssl openssl

sudo systemctl enable httpd.service

sudo systemctl start httpd.service

sudo systemctl status httpd.service

Replace none with all in httpd.conf

yum install firewalld -y

systemctl enable firewalld

systemctl start firewalld

systemctl status firewalld

sudo firewall-cmd --permanent --zone=public --add-service=http
sudo firewall-cmd --permanent --zone=public --add-service=https
sudo firewall-cmd --reload

—> PHP installation

Link: https://techviewleo.com/install-php-7-on-amazon-linux/
which amazon-linux-extras

If the command doesn't return any output, then install the package that will configure the repository:

sudo yum install -y amazon-linux-extras

sudo amazon-linux-extras | grep php

sudo amazon-linux-extras enable php7.4

```
sudo yum clean metadata

sudo yum install -y php php-
{pear,cgi,common,curl,mbstring,gd,mysqlnd,gettext,bcmath,json,xml,fpm,intl,zi
p,imap}

php -v

nano /etc/php.ini

# search and change the below values
upload_max_filesize = 2047M
post_max_size = 2048M
memory_limit = 2048M

sudo systemctl restart httpd.service

PHPMYADMIN

curl -o phpMyAdmin-4.9.7-all-languages.tar.gz https://files.phpmyadmin.net/
phpMyAdmin/4.9.7/phpMyAdmin-4.9.7-all-languages.tar.gz

tar xvf phpMyAdmin-4.9.7-all-languages.tar.gz

sudo rm -rf phpMyAdmin-4.9.7-all-languages.tar.gz

sudo mv phpMyAdmin-*/ /usr/share/phpmyadmin

sudo mkdir -p /var/lib/phpmyadmin/tmp

sudo chown -R apache:apache /var/lib/phpmyadmin

sudo mkdir /etc/phpmyadmin/

sudo cp /usr/share/phpmyadmin/config.sample.inc.php /usr/share/phpmyadmin/
config.inc.php

sudo nano /usr/share/phpmyadmin/config.inc.php

# Add
$cfg['TempDir'] = '/var/lib/phpmyadmin/tmp';

sudo systemctl restart httpd.service

sudo nano /etc/httpd/conf.d/phpmyadmin.conf
```

```
# Apache configuration for phpMyAdmin
Alias /phpMyAdmin /usr/share/phpmyadmin/
Alias /phpmyadmin /usr/share/phpmyadmin/

<Directory /usr/share/phpmyadmin/>
  AddDefaultCharset UTF-8

  <IfModule mod_authz_core.c>
   # Apache 2.4
   Require all granted
  </IfModule>
  <IfModule !mod_authz_core.c>
   # Apache 2.2
   Order Deny,Allow
   Deny from All
   Allow from 127.0.0.1
   Allow from ::1
  </IfModule>
</Directory>
```

systemctl restart httpd

RDS config in sudo nano /usr/share/phpmyadmin/config.inc.php

```
$i++;
$cfg['Servers'][$i]['host']    = '';
$cfg['Servers'][$i]['port']    = '3306';
$cfg['Servers'][$i]['socket']   = '';
$cfg['Servers'][$i]['connect_type'] = 'tcp';
$cfg['Servers'][$i]['extension']  = 'mysql';
$cfg['Servers'][$i]['compress']   = FALSE;
$cfg['Servers'][$i]['auth_type']  = 'config';
$cfg['Servers'][$i]['user']    = 'admin';
$cfg['Servers'][$i]['password']   = '58DLFj\Q';
```

systemctl restart httpd
Apache Tuning:
sudo nano /etc/httpd/conf/httpd.conf

###Apache Tuning:

```
StartServers 5
<IfModule prefork.c>
  MinSpareServers 5
  MaxSpareServers 10
</IfModule>
```

```
ServerLimit 4096
MaxRequestWorkers 2400
MaxConnectionsPerChild 10000
KeepAlive On
KeepAliveTimeout 5
MaxKeepAliveRequests 100
Timeout 300
```

SSL installation:
```
cd /etc/ssl
SSLEngine ON
SSLCertificateFile /etc/ssl/www_prizwizapp_com.crt
SSLCertificateKeyFile /etc/ssl/priavte.key
SSLCertificateChainFile /etc/ssl/www_prizwizapp_com.ca-bundle.crt
</VirtualHost>
```

```
cd /etc/httpd/conf.d/
```

```
nano ssl.conf
```

```
systemctl restart httpd
```

Enabling Mail settings:

```
getsebool httpd_can_sendmail
getsebool httpd_can_network_connect
```

if SELinux is disabled

Enabling SELInux
To enable SELinux follow the below instructions,
Open the file /etc/selinux/config
Change option SELINUX from disabled to enforcing
reboot

```
sudo setsebool -P httpd_can_sendmail 1
sudo setsebool -P httpd_can_network_connect 1
```

```
systemctl restart httpd
```

Cloudwatch Agent installation:
```
sudo yum -y install amazon-cloudwatch-agent
```

```
sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl
-m ec2 -a start
```

```
sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl
-m ec2 -a status

sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-
config-wizard

Saved config file to /opt/aws/amazon-cloudwatch-agent/bin/config.json
```

Code Deploy Agent installation:

```
sudo yum update -y
sudo yum install ruby -y
wget https://aws-codedeploy-ap-south-1.s3.ap-south-1.amazonaws.com/latest/
install chmod +x ./install
sudo ./install auto
sudo service codedeploy-agent status
```

EFS:

```
sudo yum -y install nfs-utils

df -kh

sudo mount -t nfs4 -o
nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=600,retrans=2,noresvp
ort your-file-system-id:/ /var/www/html

nano /etc/fstab

fs-08facdd298d2f8581.efs.ap-south-1.amazonaws.com:/ /var/www/html/ nfs
defaults,_netdev 0 0

sudo mount -fav

df -kh

reboot
```

SFTP:

```
cd /etc/ssh

nano sshd_config
```

Change PasswordAuthentication no to PasswordAuthentication yes

sudo systemctl restart sshd

Creating a User for SFTP:

sudo useradd prizwiz

sudo passwd prizwiz
ELB:

Enable Sticky session