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Batch: CSE-K2

Experiment 2 - Creating Amazon EC2 Instances - Creating a LAMP Instance in the AWS CLI

AIM: To create a LAMP instance in the AWS CLI.

PROCEDURE:

1. Firstly, type `sudo su` to become the root user.
2. To update all the packages in your instance type “`yum update -y`”

```
ap-south-1
Preparing your terminal...
[cloudshell-user@ip-10-0-26-38 ~]$ Try these commands to get started:
aws help or aws <command> help or aws <command> --cli-auto-prompt
[cloudshell-user@ip-10-0-26-38 ~]$ sudo su
bash-4.2# yum update -y
loaded plugins: ovl, priorities
amzn2-core
Resolving Dependencies
--> Running transaction check
--> Package glibc.x86_64 0:2.26-59.amzn2 will be updated
--> Package glibc.x86_64 0:2.26-60.amzn2 will be an update
--> Package glibc-common.x86_64 0:2.26-59.amzn2 will be updated
--> Package glibc-common.x86_64 0:2.26-60.amzn2 will be an update
--> Package glibc-langpack-en.x86_64 0:2.26-59.amzn2 will be updated
--> Package glibc-langpack-en.x86_64 0:2.26-60.amzn2 will be an update
--> Package glibc-minimal-langpack.x86_64 0:2.26-59.amzn2 will be updated
--> Package glibc-minimal-langpack.x86_64 0:2.26-60.amzn2 will be an update
--> Package libcrypt.x86_64 0:2.26-59.amzn2 will be updated
--> Package libcrypt.x86_64 0:2.26-60.amzn2 will be an update
--> Package tzdata.noarch 0:2022c-1.amzn2 will be updated
--> Package tzdata.noarch 0:2022c-1.amzn2 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Updating:
glibc x86_64 2.26-60.amzn2 amzn2-core 3.4 M
glibc-common x86_64 2.26-60.amzn2 amzn2-core 773 k
glibc-langpack-en x86_64 2.26-60.amzn2 amzn2-core 289 k
glibc-minimal-langpack x86_64 2.26-60.amzn2 amzn2-core 32 k
Total download size: 3.7 MB
Downloaded packages: 3.7 MB
=====
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```

AWSCLOUDSHELL

ACTIONS

ap-south-1

LEVELO

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AMAZON-Linux

AMAZON-Linux

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Transaction Summary

Upgrade 6 Packages

Total download size: 5.0 M

Downloading packages:

Delta RPMs disabled because /usr/bin/applydeltarpm not installed.

(1/6): glibc-common-2.26-60.amzn2.x86_64.rpm 773 kB 00:00:00

(2/6): glibc-langpack-en-2.26-60.amzn2.x86_64.rpm 289 kB 00:00:00

(3/6): glibc-2.26-60.amzn2.x86_64.rpm 3.4 MB 00:00:00

(4/6): glibc-minimal-langpack-2.26-60.amzn2.x86_64.rpm 32 kB 00:00:00

(5/6): libcrypt-2.26-60.amzn2.x86_64.rpm 52 kB 00:00:00

(6/6): tzdata-2022c-1.amzn2.noarch.rpm 481 kB 00:00:00

Total 25 MB/s | 5.0 MB 00:00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Updating : tzdata-2022c-1.amzn2.noarch 1/12

Updating : glibc-common-2.26-60.amzn2.x86_64 2/12

Updating : glibc-minimal-langpack-2.26-60.amzn2.x86_64 3/12

Updating : glibc-2.26-60.amzn2.x86_64 4/12

Updating : libcrypt-2.26-60.amzn2.x86_64 5/12

Updating : glibc-langpack-en-2.26-60.amzn2.x86_64 6/12

Cleanup : glibc-langpack-en-2.26-59.amzn2.x86_64 7/12

Cleanup : libcrypt-2.26-59.amzn2.x86_64 8/12

Cleanup : glibc-common-2.26-59.amzn2.x86_64 9/12

Cleanup : glibc-minimal-langpack-2.26-59.amzn2.x86_64 10/12

Cleanup : glibc-2.26-59.amzn2.x86_64 11/12

Cleanup : tzdata-2022a-1.amzn2.noarch 12/12

Verifying : libcrypt-2.26-60.amzn2.x86_64 1/12

Verifying : glibc-2.26-60.amzn2.x86_64 2/12

Verifying : glibc-common-2.26-60.amzn2.x86_64 3/12

Verifying : glibc-langpack-en-2.26-60.amzn2.x86_64 4/12

Verifying : glibc-minimal-langpack-2.26-60.amzn2.x86_64 5/12

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Verifying : glibc-langpack-en-2.26-59.amzn2.x86_64 7/12

Verifying : glibc-common-2.26-59.amzn2.x86_64 8/12

Verifying : glibc-2.26-59.amzn2.x86_64 9/12

Verifying : tzdata-2022a-1.amzn2.noarch 10/12

Verifying : libcrypt-2.26-59.amzn2.x86_64 11/12

Verifying : glibc-minimal-langpack-2.26-59.amzn2.x86_64 12/12

Updated:

glibc.x86_64 0:2.26-60.amzn2 glibc-common.x86_64 0:2.26-60.amzn2 glibc-langpack-en.x86_64 0:2.26-60.amzn2 glibc-minimal-langpack.x86_64 0:2.26-60.amzn2 libcrypt.x86_64 0:2.26-60.amzn2 tzdata.noarch 0:2022c-1.amzn2

Complete!

bash-4.2#

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3. To install Apache server in linux, type “yum install httpd”.

ap-south-1

Complete!

bash-4.2# yum install httpd

Loaded plugins: ovl, priorities

Resolving Dependencies

--> Running transaction check

--> Package httpd.x86_64 0:2.4.54-1.amzn2 will be installed

--> Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64

--> Processing Dependency: httpd filesystem = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64

--> Processing Dependency: system-logos-httpd for package: httpd-2.4.54-1.amzn2.x86_64

--> Processing Dependency: mod_http2 for package: httpd-2.4.54-1.amzn2.x86_64

--> Processing Dependency: httpd filesystem for package: httpd-2.4.54-1.amzn2.x86_64

--> Processing Dependency: /etc/mime.types for package: httpd-2.4.54-1.amzn2.x86_64

--> Processing Dependency: libaprutil1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64

--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64

--> Running transaction check

--> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed

--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed

--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64

--> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed

--> Package httpd filesystem.noarch 0:2.4.54-1.amzn2 will be installed

--> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed

--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed

--> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed

--> Running transaction check

--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

Package	Arch	Version	Repository	Size
Installing:				
httpd	x86_64	2.4.54-1.amzn2	amzn2-core	1.4 M
Installing for dependencies:				
apr	x86_64	1.7.0-9.amzn2	amzn2-core	122 k
apr-util	x86_64	1.6.1-5.amzn2.0.2	amzn2-core	99 k
apr-util-bdb	x86_64	1.6.1-5.amzn2.0.2	amzn2-core	19 k

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Package	Arch	Version	Repository	Size
Installing:				
httpd	x86_64	2.4.54-1.amzn2	amzn2-core	1.4 M
Installing for dependencies:				
apr	x86_64	1.7.0-9.amzn2	amzn2-core	122 k
apr-util	x86_64	1.6.1-5.amzn2.0.2	amzn2-core	99 k
apr-util-bdb	x86_64	1.6.1-5.amzn2.0.2	amzn2-core	19 k
generic-logos-httpd	noarch	18.0.0-4.amzn2	amzn2-core	19 k
httpdfilesystem	noarch	2.4.54-1.amzn2	amzn2-core	24 k
httpd-tools	x86_64	2.4.54-1.amzn2	amzn2-core	88 k
mailcap	noarch	2.1.41-2.amzn2	amzn2-core	31 k
mod_http2	x86_64	1.15.19-1.amzn2.0.1	amzn2-core	149 k
Transaction Summary				
Install 1 Package (+8 Dependent packages)				
Total download size: 1.9 M				
Installed size: 5.2 M				
Is this ok [y/d/N]:				

4. To install mysql or mariadb type “yum install mariadb mariadb-server”.

AWS CloudShell
Actions

ap-south-1

```

Your transaction was saved, rerun it with:
yum load-transaction /tmp/yum_save_tx.2022-09-26.05-40.7XGgyE.yumtx
bash-4.2$ yum install mariadb mariadb-server
loaded plugins: ovl, priorities
amzn2-core
Package 1:mariadb-5.5.68-1.amzn2.x86_64 already installed and latest version
| 3.7 KB 00:00:00
--> Resolving Dependencies
--> Running transaction check
--> Package mariadb-server.x86_64 1:5.5.68-1.amzn2 will be installed
--> Processing Dependency: perl(DBI) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
--> Processing Dependency: perl(DBD::MySQL) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
--> Processing Dependency: perl(Data::Dumper) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
--> Processing Dependency: perl(DBI) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
--> Processing Dependency: libaio.so.1(LIBAIO.0.4)(64bit) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
--> Processing Dependency: libaio.so.1(LIBAIO.0.1)(64bit) for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
--> Processing Dependency: libaio.so.1() for package: 1:mariadb-server-5.5.68-1.amzn2.x86_64
--> Running transaction check
--> Package libaio.x86_64 0:0.3.109-13.amzn2.0.2 will be installed
--> Package perl-DBD-MySQL.x86_64 0:4.023-6.amzn2 will be installed
--> Package perl-DBI.x86_64 0:1.627-4.amzn2.0.2 will be installed
--> Processing Dependency: perl(IPC::PIServer) >= 0.2001 for package: perl-DBI-1.627-4.amzn2.0.2.x86_64
--> Processing Dependency: perl(IPC::PILient) >= 0.2000 for package: perl-DBI-1.627-4.amzn2.0.2.x86_64
--> Package perl-Data-Dumper.x86_64 0:2.145-3.amzn2.0.2 will be installed
--> Running transaction check
--> Package perl-IPRPC.noarch 0:0.2020-14.amzn2 will be installed
--> Processing Dependency: perl(Net::Daemon) >= 0.13 for package: perl-IPRPC-0.2020-14.amzn2.noarch
--> Processing Dependency: perl(Net::Daemon::Test) for package: perl-IPRPC-0.2020-14.amzn2.noarch
--> Processing Dependency: perl(Net::Daemon::Log) for package: perl-IPRPC-0.2020-14.amzn2.noarch
--> Processing Dependency: perl(Compress::Zlib) for package: perl-IPRPC-0.2020-14.amzn2.noarch
--> Running transaction check
--> Package perl-IO-Compress.noarch 0:2.061-2.amzn2 will be installed
--> Processing Dependency: perl(Compress::Raw::Zlib) >= 2.061 for package: perl-IO-Compress-2.061-2.amzn2.noarch
--> Processing Dependency: perl(Compress::Raw::Bzip2) >= 2.061 for package: perl-IO-Compress-2.061-2.amzn2.noarch
--> Package perl-Net-Daemon.noarch 0:0.40-5.amzn2 will be installed
--> Running transaction check
--> Package perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.amzn2.0.2 will be installed
--> Package perl-Compress-Raw-Zlib.x86_64 1:2.061-4.amzn2.0.2 will be installed
--> Finished Dependency Resolution

```

Package	Arch	Version	Repository	Size
Installing:				
mariadb-server	x86_64	1:5.5.68-1.amzn2	amzn2-core	11 M
Installing for dependencies:				
libaio	x86_64	0.3.109-13.amzn2.0.2	amzn2-core	24 k
perl-Compress-Raw-Bzip2	x86_64	2.061-3.amzn2.0.2	amzn2-core	32 k
perl-Compress-Raw-Zlib	x86_64	1:2.061-4.amzn2.0.2	amzn2-core	58 k
perl-DBD-MySQL	x86_64	4.023-6.amzn2	amzn2-core	141 k
perl-DBI	x86_64	1.627-4.amzn2.0.2	amzn2-core	804 k
perl-Data-Dumper	x86_64	2.145-3.amzn2.0.2	amzn2-core	48 k
perl-IO-Compress	noarch	2.061-2.amzn2	amzn2-core	260 k
perl-Net-Daemon	noarch	0.40-5.amzn2	amzn2-core	51 k
perl-IPRPC	noarch	0.2020-14.amzn2	amzn2-core	36 k
Transaction Summary				
Install 1 Package (+9 Dependent packages)				
Total download size: 13 M				
Installed size: 61 M				
Is this ok [y/d/N]: y				
Downloading packages:				
(1/10): libaio-0.3.109-13.amzn2.0.2.x86_64.rpm				24 kB 00:00:00
(2/10): perl-Compress-Raw-Bzip2-2.061-3.amzn2.0.2.x86_64.rpm				32 kB 00:00:00
(3/10): perl-Compress-Raw-Zlib-1:2.061-4.amzn2.0.2.x86_64.rpm				58 kB 00:00:00
(4/10): perl-DBD-MySQL-4.023-6.amzn2.x86_64.rpm				141 kB 00:00:00
(5/10): perl-DBI-1.627-4.amzn2.0.2.x86_64.rpm				804 kB 00:00:00
(6/10): perl-Data-Dumper-2.145-3.amzn2.0.2.x86_64.rpm				48 kB 00:00:00
(7/10): perl-IO-Compress-2.061-2.amzn2.noarch.rpm				260 kB 00:00:00
(8/10): perl-Net-Daemon-0.40-5.amzn2.noarch.rpm				51 kB 00:00:00
(9/10): perl-IPRPC-0.2020-14.amzn2.noarch.rpm				36 kB 00:00:00
(10/10): mariadb-server-5.5.68-1.amzn2.x86_64.rpm				11 MB 00:00:00
Total				
Running transaction check				36 MB/s 13 MB 00:00:00

```

AWS CloudShell
ap-south-1
(9/10): perl-PIRPC-0.2020-14.amzn2.noarch.rpm | 36 kB 00:00:00
(10/10): mariadb-server-5.5.68-1.amzn2.x86_64.rpm | 11 MB 00:00:00
-----
Total | 36 MB/s | 13 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : perl-Data-Dumper-2.145-3.amzn2.0.2.x86_64 1/10
  Installing : perl-Compress-Raw-Bzip2-2.061-3.amzn2.0.2.x86_64 2/10
  Installing : libaio-0.3.109-13.amzn2.0.2.x86_64 3/10
  Installing : perl-Net-Daemon-0.48-5.amzn2.noarch 4/10
  Installing : 1:perl-Compress-Raw-Zlib-2.061-4.amzn2.0.2.x86_64 5/10
  Installing : perl-IO-Compress-2.061-2.amzn2.noarch 6/10
  Installing : perl-PIRPC-0.2020-14.amzn2.noarch 7/10
  Installing : perl-DBI-1.627-4.amzn2.0.2.x86_64 8/10
  Installing : perl-DBD-MySQL-4.023-6.amzn2.x86_64 9/10
  Installing : 1:mariadb-server-5.5.68-1.amzn2.x86_64 10/10
  Verifying : 1:perl-Compress-Raw-Zlib-2.061-4.amzn2.0.2.x86_64 1/10
  Verifying : perl-IO-Compress-2.061-2.amzn2.noarch 2/10
  Verifying : perl-Net-Daemon-0.48-5.amzn2.noarch 3/10
  Verifying : libaio-0.3.109-13.amzn2.0.2.x86_64 4/10
  Verifying : perl-Data-Dumper-2.145-3.amzn2.0.2.x86_64 5/10
  Verifying : perl-DBD-MySQL-4.023-6.amzn2.x86_64 6/10
  Verifying : 1:mariadb-server-5.5.68-1.amzn2.x86_64 7/10
  Verifying : perl-Compress-Raw-Bzip2-2.061-3.amzn2.0.2.x86_64 8/10
  Verifying : perl-DBI-1.627-4.amzn2.0.2.x86_64 9/10
  Verifying : perl-PIRPC-0.2020-14.amzn2.noarch 10/10

Installed:
  mariadb-server.x86_64 1:5.5.68-1.amzn2

Dependency Installed:
  libaio.x86_64 0:0.3.109-13.amzn2.0.2 perl-Compress-Raw-Bzip2.x86_64 0:2.061-3.amzn2.0.2 perl-Compress-Raw-Zlib.x86_64 1:2.061-4.amzn2.0.2 perl-DBD-MySQL.x86_64 0:4.023-6.amzn2 perl-DBI.x86_64 0:1.627-4.amzn2.0.2
  perl-Data-Dumper.x86_64 0:2.145-3.amzn2.0.2 perl-IO-Compress.noarch 0:2.061-2.amzn2 perl-Net-Daemon.noarch 0:0.48-5.amzn2 perl-PIRPC.noarch 0:0.2020-14.amzn2

Complete!
bash-4.2#
```

5. To install php, type “yum install php php-mysql”.

```

AWS CloudShell
ap-south-1
bash-4.2#
bash-4.2# yum install php php-mysql
Loaded plugins: ovl, priorities
Package php-mysql is obsoleted by php-mysqld, trying to install php-mysqld-5.4.16-46.amzn2.0.2.x86_64 instead
Resolving Dependencies
--> Running transaction check
--> Package php.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: php-cli(x86_64) = 5.4.16-46.amzn2.0.2 for package: php-5.4.16-46.amzn2.0.2.x86_64
--> Processing Dependency: php-common(x86_64) = 5.4.16-46.amzn2.0.2 for package: php-5.4.16-46.amzn2.0.2.x86_64
--> Processing Dependency: httpd-mmn = 20120111K8664 for package: php-5.4.16-46.amzn2.0.2.x86_64
--> Processing Dependency: mod_httpd for package: httpd-2.4.54-1.amzn2.x86_64
--> Package php-mysqld.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: php-pdo(x86_64) = 5.4.16-46.amzn2.0.2 for package: php-mysqld-5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
--> Package httpd.x86_64 0:2.4.54-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: mod_httpd for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Package php-cli.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: libzip.so.2()(64bit) for package: php-common-5.4.16-46.amzn2.0.2.x86_64
--> Package php-pdo.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Running transaction check
--> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-ldap(x86_64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
--> Package generic-logos-httpd.noarch 0:18.0-0.4.amzn2 will be installed
--> Package httpd filesystem.noarch 0:2.4.54-1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed
--> Package libzip.so.compat.x86_64 0:0.10.1-9.amzn2.0.5 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_httpd.x86_64 0:1.15.19-1.amzn2.0.1 will be installed

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11:16
26-09-2022
```

6. Type “yum search php” to see all the packages installed in the server.


```
ap-south-1
bash-4.2#
bash-4.2#
bash-4.2# yum search php
Loaded plugins: ovl, priorities
===== N/S matched: php =====
graphviz-php.x86_64 : PHP extension for graphviz
php.x86_64 : PHP scripting language for creating dynamic web sites
php-bcmath.x86_64 : A module for PHP applications for using the bcmath library
php-cli.x86_64 : Command-line interface for PHP
php-common.x86_64 : Common files for PHP
php-dba.x86_64 : A database abstraction layer module for PHP applications
php-devel.x86_64 : Files needed for building PHP extensions
php-embed.x86_64 : PHP library for embedding in applications
php-enchant.x86_64 : Enchant spelling extension for PHP applications
php-fpm.x86_64 : PHP FastCGI Process Manager
php-gd.x86_64 : A module for PHP applications for using the gd graphics library
php-intl.x86_64 : Internationalization extension for PHP applications
php-ldap.x86_64 : A module for PHP applications that use LDAP
php-mbstring.x86_64 : A module for PHP applications which need multi-byte string handling
php-mysql.x86_64 : A module for PHP applications that use MySQL databases
php-mysqli.x86_64 : A module for PHP applications that use MySQL databases
php-odbc.x86_64 : A module for PHP applications that use ODBC databases
php-pdo.x86_64 : A database access abstraction module for PHP applications
php-pear.x86_64 : PHP Extension and Application Repository framework
php-pgsql.x86_64 : A PostgreSQL database module for PHP
php-process.x86_64 : Modules for PHP script using system process interfaces
php-pspell.x86_64 : A module for PHP applications for using pspell interfaces
php-recode.x86_64 : A module for PHP applications for using the recode library
php-smb.x86_64 : A module for PHP applications that query SMB-managed devices
php-soap.x86_64 : A module for PHP applications that use the SOAP protocol
php-xml.x86_64 : A module for PHP applications which use XML
php-xmlrpc.x86_64 : A module for PHP applications which use the XML-RPC protocol
rrtool-php.x86_64 : PHP protocol bindings
uuid-php.x86_64 : PHP support for Universally Unique Identifier library
php-pecl-memcache.x86_64 : Extension to work with the Memcached caching daemon
Name and summary matches only, use "search all" for everything.
bash-4.2#
```

RESULT: LAMP instance was successfully created and executed in AWS CLI.