

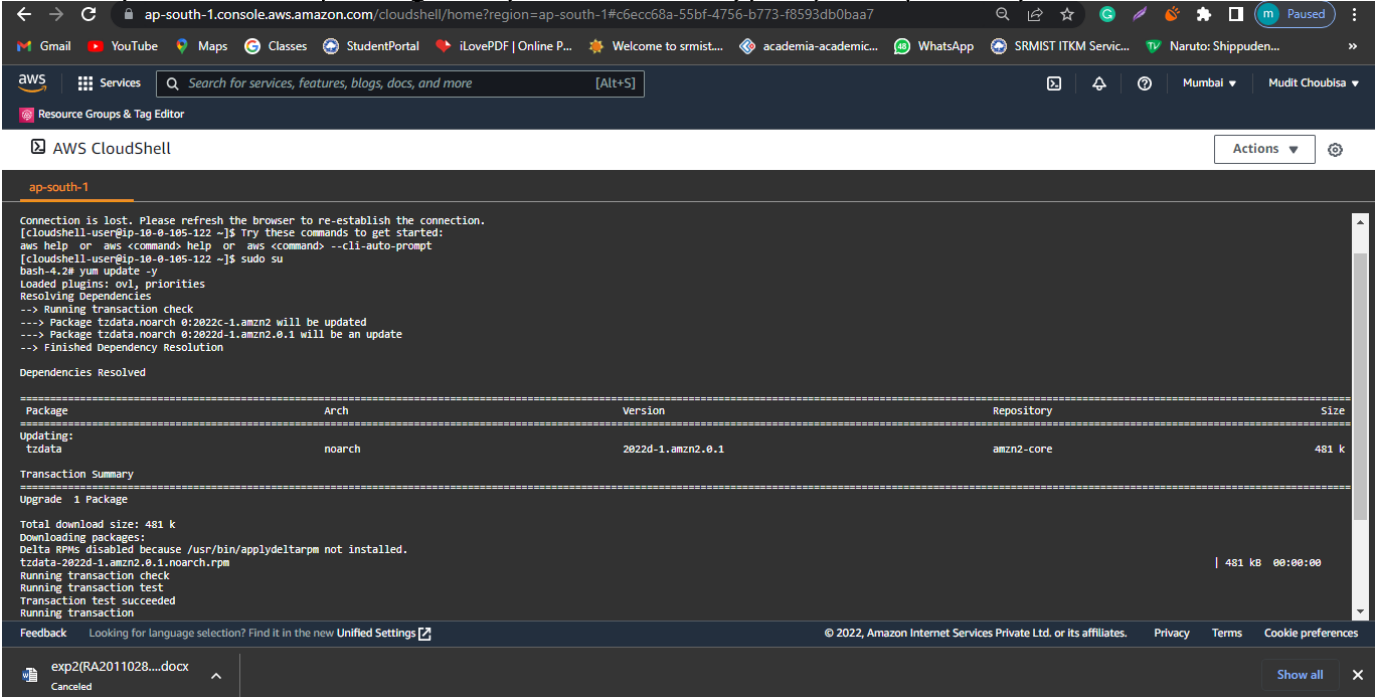
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Experiment 2 _ Creating Amazon EC2 Instances - Creating a LAMP Instance in the AWS CLI

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.console.aws.amazon.com/cloudshell/home?region=ap-south-1#c6ecc68a-55bf-4756-b773-f8593db0baa7
Gmail YouTube Maps Classes StudentPortal iLovePDF | Online P... Welcome to srmist... academia-academic... WhatsApp SRMIST ITKM Servic... Naruto: Shippuden...
aws Services Search for services, features, blogs, docs, and more [Alt+S]
Resource Groups & Tag Editor
AWS CloudShell Actions
ap-south-1
Connection is lost. Please refresh the browser to re-establish the connection.
[cloudshell-user@ip-10-0-105-122 ~]$ Try these commands to get started:
aws help or aws <command> help or aws <command> --cli-auto-prompt
[cloudshell-user@ip-10-0-105-122 ~]$ sudo su
bash-4.2# yum update -y
Loaded plugins: ovl, priorities
Resolving Dependencies
--> Running transaction check
--> Package tzdata.noarch 0:2022c-1.amzn2 will be updated
--> Package tzdata.noarch 0:2022d-1.amzn2.0.1 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Updating:
tzdata noarch 2022d-1.amzn2.0.1 amzn2-core 481 k
Transaction Summary
=====
Upgrade 1 Package

Total download size: 481 k
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
tzdata-2022d-1.amzn2.0.1.noarch.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
| 481 kB 00:00:00

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exp2(RA2011028....docx Canceled Show all X
```

```
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=====
Package Arch Version Repository Size
=====
Updating:
tzdata noarch 2022d-1.amzn2.0.1 amzn2-core 481 k
Transaction Summary
=====
Upgrade 1 Package
Total download size: 481 k
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
tzdata-2022d-1.amzn2.0.1.noarch.rpm | 481 kB 00:00:00

Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Updating : tzdata-2022d-1.amzn2.0.1.noarch 1/2
  Cleanup : tzdata-2022c-1.amzn2.noarch 2/2
  Verifying : tzdata-2022d-1.amzn2.0.1.noarch 1/2
  Verifying : tzdata-2022c-1.amzn2.noarch 2/2

Updated:
tzdata.noarch 0:2022d-1.amzn2.0.1

Complete!
bash-4.2#
```

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

```
ap-south-1

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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Resource Groups & Tag Editor

AWS CloudShell Actions

ap-south-1

```
--> Running transaction check
--> Package apr.x86_64 0:1.7.0-9.amzn2.0.2 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                         amazon2-core                             1.4 M
Installing for dependencies:
apr                                    x86_64                              1.7.0-9.amzn2                         amazon2-core                             122 k
apr-util                              x86_64                              1.6.1-5.amzn2.0.2                     amazon2-core                             99 k
apr-util-bdb                          x86_64                              1.6.1-5.amzn2.0.2                     amazon2-core                             19 k
generic-logos-httpd                   noarch                              18.0.0-4.amzn2                        amazon2-core                             24 k
httpd-filesystem                      noarch                              2.4.54-1.amzn2                        amazon2-core                             88 k
httpd-tools                           x86_64                              2.4.54-1.amzn2                        amazon2-core                             31 k
mailcap                               noarch                              2.1.41-2.amzn2                        amazon2-core                             149 k
mod_http2                             x86_64                              1.15.19-1.amzn2.0.1                  amazon2-core
=====

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]:

Feedback Looking for language selection? Find it in the new Unified Settings
```

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

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AWS CloudShell Actions

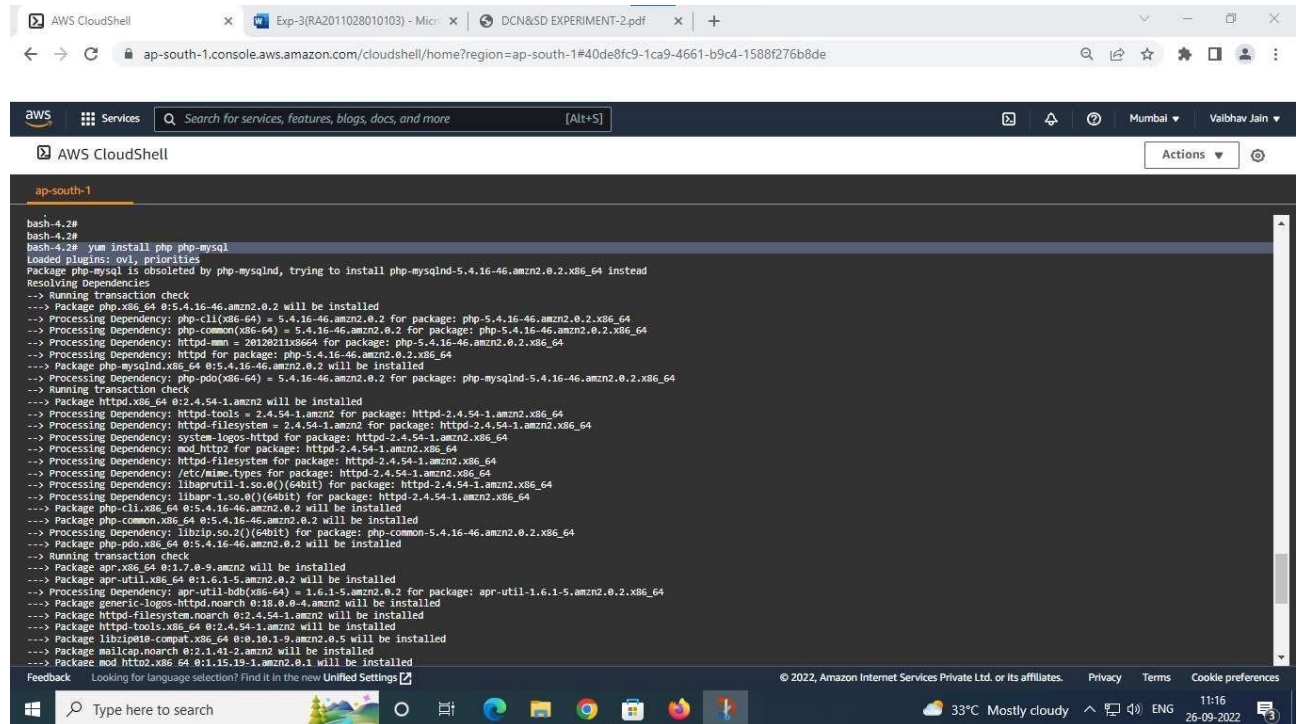
ap-south-1

```
Package                                Arch                                Version                                Repository                                Size
=====
Installing:
mariadb-server                        x86_64                              1:5.5.68-1.amzn2                      amazon2-core                             11 M
Installing for dependencies:
libaio                                x86_64                              0.3.109-13.amzn2.0.2                  amazon2-core                             24 k
perl-Compress-Raw-bz2                 x86_64                              2.061-3.amzn2.0.2                     amazon2-core                             32 k
perl-Compress-Raw-Zlib                x86_64                              1:2.061-4.amzn2.0.2                   amazon2-core                             58 k
perl-DBD-MySQL                        x86_64                              4.023-6.amzn2                         amazon2-core                             141 k
perl-DBI                              x86_64                              1.627-4.amzn2.0.2                     amazon2-core                             804 k
perl-Data-Dumper                     x86_64                              2.145-3.amzn2.0.2                     amazon2-core                             48 k
perl-IO-Compress                      noarch                              2.061-2.amzn2                         amazon2-core                             260 k
perl-Net-Daemon                       noarch                              0.48-5.amzn2                          amazon2-core                             51 k
perl-PIRPC                            noarch                              0.2020-14.amzn2                      amazon2-core                             36 k
=====

Transaction Summary
Install 1 Package (+9 Dependent packages)

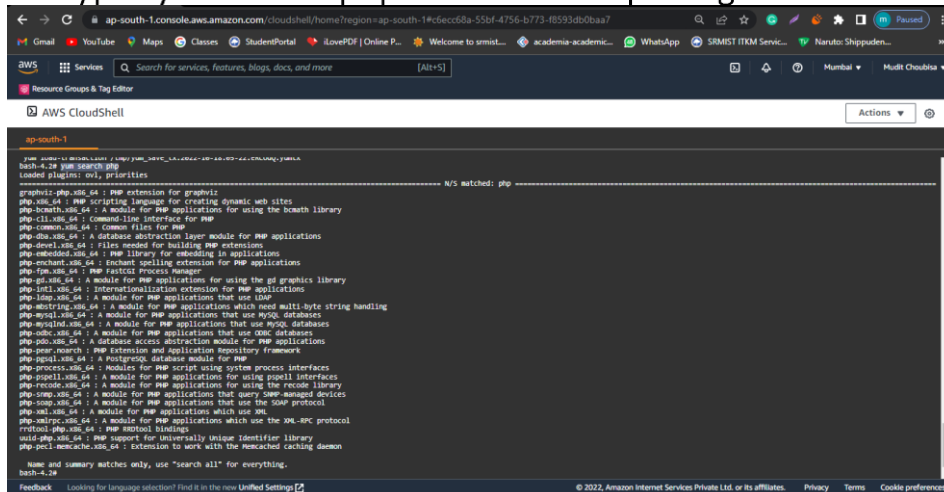
Total download size: 13 M
Installed size: 61 M
Is this ok [y/d/N]: y
Downloading packages:
(1/10): libaio-0.3.109-13.amzn2.0.2.x86_64.rpm | 24 kB 00:00:00
(2/10): perl-Compress-Raw-Bzip2-2.061-3.amzn2.0.2.x86_64.rpm | 32 kB 00:00:00
(3/10): perl-Compress-Raw-Zlib-2.061-4.amzn2.0.2.x86_64.rpm | 58 kB 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-0.48-5.amzn2.noarch.rpm | 51 kB 00:00:00
(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
```

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



```
bash-4.2# yum install php php-mysql
Loaded plugins: ovl, priorities
Package php-mysql is obsoleted by php-mysqlnd, trying to install php-mysqlnd-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 = 2.4.54-1.amzn2.0.2 for package: php-5.4.16-46.amzn2.0.2.x86_64
--> Processing Dependency: httpd for package: php-5.4.16-46.amzn2.0.2.x86_64
--> Package php-mysqlnd.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-mysqlnd-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: mod_ssl 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: libapr-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
--> Processing Dependency: 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-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 0:18.0-4.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.noarch 0:1.3.2-1.amzn2.0.1 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.1-1.amzn2.0.1 will be installed
```

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



```
bash-4.2# yum search php
Loaded plugins: ovl, priorities
----- N/S matched: php -----
php-cli.x86_64 : PHP extension for graphviz
php-cli.x86_64 : A module for PHP applications for using the cli 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-embedded.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-mcrypt.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-mysqlnd.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-pdo-pgsql.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-redis.x86_64 : A module for PHP applications for using the redis library
php-sockets.x86_64 : A module for PHP applications that use Sockets
php-ssh2.x86_64 : A module for PHP applications that use the ssh2 protocol
php-tidy.x86_64 : A module for PHP applications which use the libtidy protocol
php-xml.x86_64 : PHP xmltool bindings
php-xmlrpc.x86_64 : PHP network for universally unique identifier library
php-xml.x86_64 : PHP network for universally unique identifier library
php-pcl-pecl-memcache.x86_64 : Extension to work with the Memcached caching daemon
```

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