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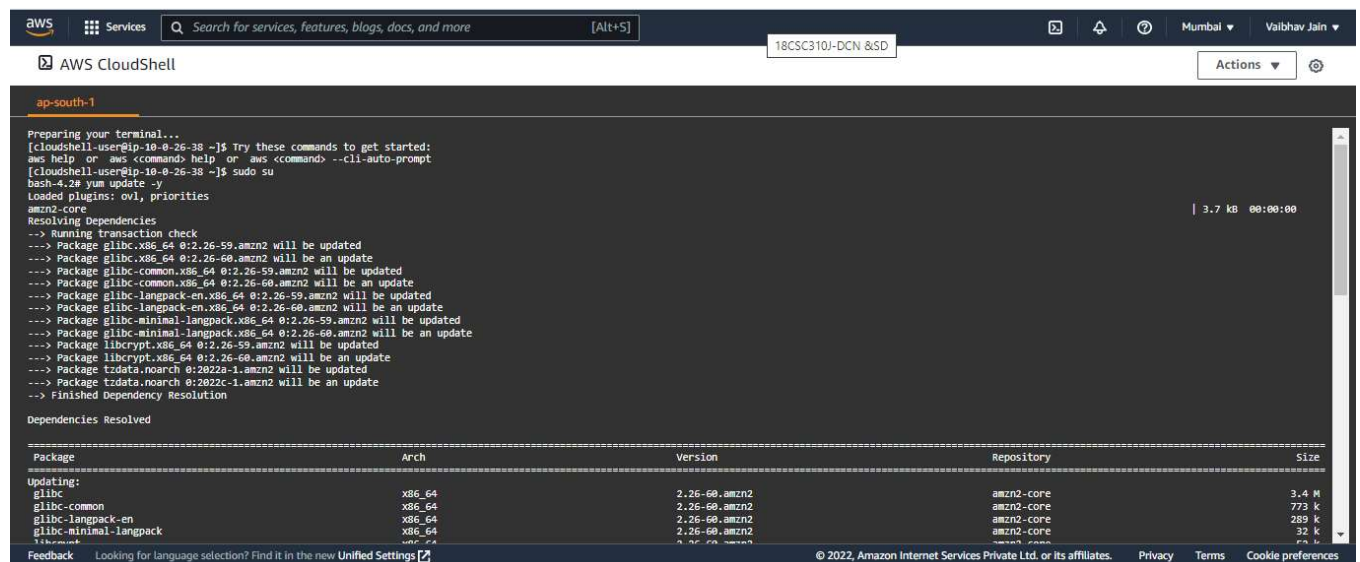
Batch: CSE-K2

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"

```
tzdata                          noarch                 2022c-1.amzn2                   amzn2-core                481 k

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
```

```
  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#
```

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

```
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: 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
--> 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

```
================================================================================
 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
 httpd-filesystem         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".

5. To install php, type "yum install php php-mysql".

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

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