

INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA DO CEARÁ
IFCE *CAMPUS* FORTALEZA
TELEMÁTICA

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Disciplina: **Administração de serviços de rede** (01.302.25)

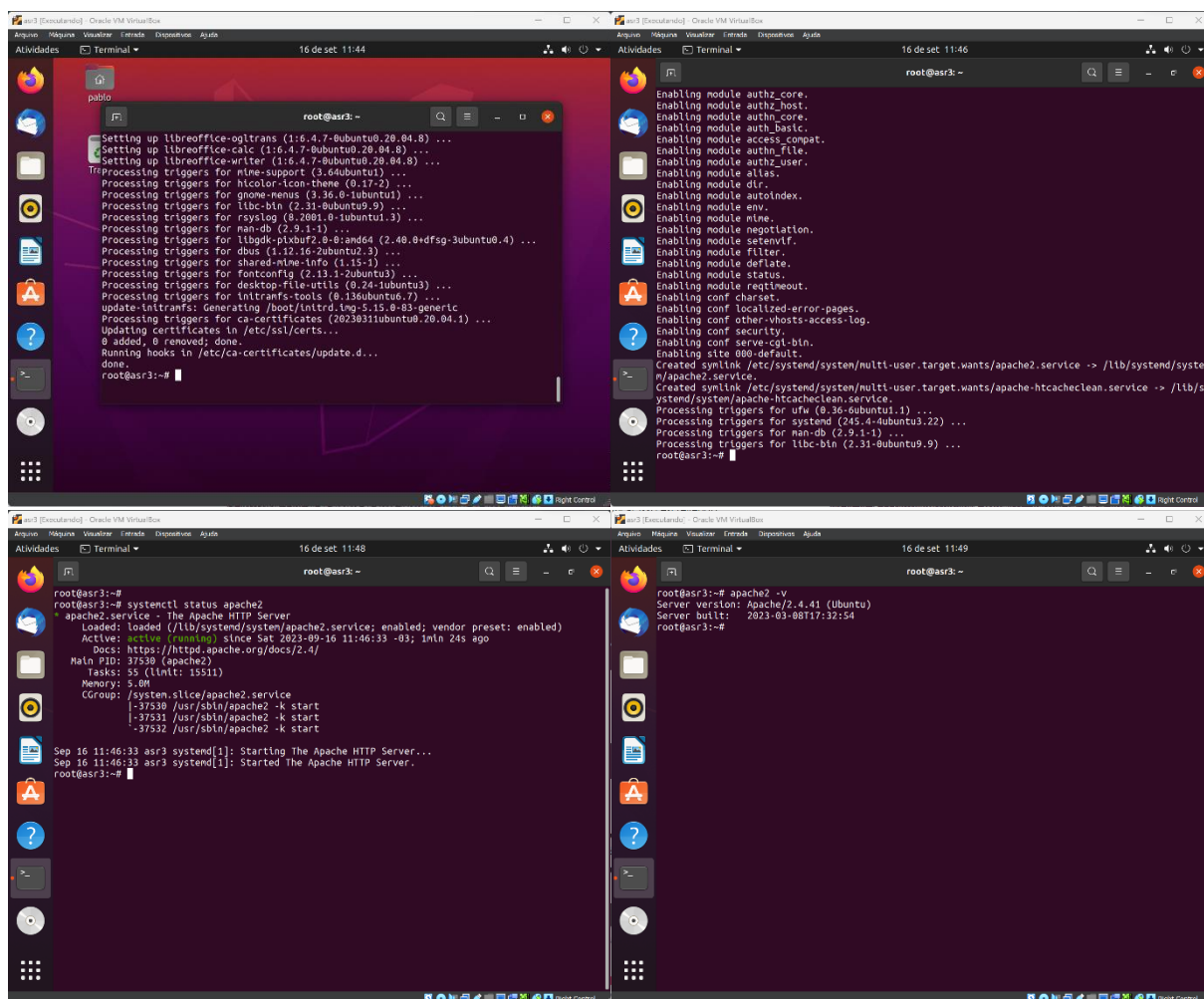
Professor: **Ricardo Taveira**

Aluno: **Pablo Busatto Figueiredo** (mat. 20221013020042)

Avaliação 4 - LAMP

Instalar o LAMP(Linux/Apache/MariaDB-MYSQL/PHP) conforme o tutorial definido em <https://ubunlog.com/pt/lamp-instala-apache-mariadb-php-ubuntu-20-04/> Evidenciar com prints das etapas de conclusão do Apache, do Banco de Dados e do PHP.

Apache:



```
root@asr3:~# apt-get install apache2
Setting up libreoffice-ogltrans (1:6.4.7-0ubuntu0.20.04.8) ...
Setting up libreoffice-calc (1:6.4.7-0ubuntu0.20.04.8) ...
Setting up libreoffice-writer (1:6.4.7-0ubuntu0.20.04.8) ...
Processing triggers for mime-support (3.6ubuntu1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
Processing triggers for rsyslog (8.2001.0-1ubuntu1.3) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libgdk-pixbuf2.0-0:amd64 (2.40.0+dfsg-3ubuntu0.4) ...
Processing triggers for dbus (1.12.16-2ubuntu2.3) ...
Processing triggers for shared-mime-info (1.15-1) ...
Processing triggers for fontconfig (2.13.1-2ubuntu3) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for intrans-tools (0.136ubuntu7) ...
update-initramfs: Generating /boot/initrd.img-5.15.0-83-generic
Processing triggers for ca-certificates (20230311ubuntu0.20.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
root@asr3:~#

root@asr3:~# apt-get install apache2
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module authn_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authn_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling module charset.
Enabling conf localized-error-pages.
Enabling conf other-vmhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service -> /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service -> /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36-6ubuntu1.1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
root@asr3:~#

root@asr3:~# systemctl status apache2
apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
Active: active (running) since Sat 2023-09-16 11:46:33 -03; 1min 24s ago
Docs: https://httpd.apache.org/docs/2.4/
Main PID: 37530 (apache2)
Tasks: 35 (limit: 15511)
Memory: 3.0M
CGroup: /system.slice/apache2.service
├─37530 /usr/sbin/apache2 -k start
├─37531 /usr/sbin/apache2 -k start
└─37532 /usr/sbin/apache2 -k start

Sep 16 11:46:33 asr3 systemd[1]: Starting The Apache HTTP Server...
Sep 16 11:46:33 asr3 systemd[1]: Started The Apache HTTP Server.
root@asr3:~#

root@asr3:~# apache2 -v
Server version: Apache/2.4.41 (Ubuntu)
Server built: 2023-03-08T17:32:54
root@asr3:~#
```

MariaDB:

```
root@asr3:~# dpkg-query -f='${Package} ${Version} ${Architecture}\n' -W -f='${Package} ${Version} ${Architecture}\n' | grep mariadb
Preparing to unpack .../mariadb-client_10.3.38-0ubuntu0.20.04.1_all.deb ...
Unpacking mariadb-client (10.3.38-0ubuntu0.20.04.1) ...
Preparing to unpack .../mariadb-server_10.3.38-0ubuntu0.20.04.1_all.deb ...
Unpacking mariadb-server (10.3.38-0ubuntu0.20.04.1) ...
Setting up libreadline5:amd64 (5.2+dfsg-3build1) ...
Setting up gawk (1:5.0.1.dfsg-1ubuntu0.1) ...
Setting up libncurses5:amd64 (5.9+20191017-1) ...
Setting up libperl5.32:amd64 (5.32.0-6ubuntu0.2) ...
Setting up libterm-readkey-perl (2.38-1build1) ...
Setting up libdbi-perl:amd64 (1.643-1ubuntu0.1) ...
Setting up libfcgi-perl (0.79-1) ...
Setting up libfcgi-fast-perl (1:2.15-1) ...
Setting up mariadb-server-core-10.3 (10.3.38-0ubuntu0.20.04.1) ...
Setting up libdbd-mysql-perl:amd64 (4.050-3ubuntu0.2) ...
Setting up mariadb-client-core-10.3 (10.3.38-0ubuntu0.20.04.1) ...
Setting up mariadb-client-10.3 (10.3.38-0ubuntu0.20.04.1) ...
Setting up mariadb-server-10.3 (10.3.38-0ubuntu0.20.04.1) ...
Created symlink /etc/systemd/system/mysql.service -> /lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/mysqld.service -> /lib/systemd/system/mariadb.service.
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service -> /lib/systemd/system/mariadb.service.
Setting up mariadb-client (10.3.38-0ubuntu0.20.04.1) ...
Setting up mariadb-server (10.3.38-0ubuntu0.20.04.1) ...
Processing triggers for systemd (245.4-4ubuntu3.22) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
root@asr3:~#

root@asr3:~# systemctl status mariadb
mariadb.service - MariaDB 10.3.38 database server
Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
Active: active (running) since Sat 2023-09-16 11:53:09 -03; 1min 44s ago
Docs: man:mysqld(8)
      https://mariadb.com/kb/en/library/systend/
Main PID: 39661 (mysqld)
Status: "Taking your SQL requests now..."
Tasks: 31 (limit: 15511)
Memory: 63.5M
CGroup: /system.slice/mariadb.service
        -39661 /usr/sbin/mysqld

Sep 16 11:53:09 asr3 systend[1]: Starting MariaDB 10.3.38 database server...
Sep 16 11:53:09 asr3 systend[1]: Started MariaDB 10.3.38 database server...
Sep 16 11:53:09 asr3 /etc/mysql/debian-start[39669]: Upgrading MySQL tables if necessary.
Sep 16 11:53:09 asr3 /etc/mysql/debian-start[39699]: Looking for 'mysql' as: /usr/bin/mysql
Sep 16 11:53:09 asr3 /etc/mysql/debian-start[39699]: Looking for 'mysqlcheck' as: /usr/bin/mysqlcheck
Sep 16 11:53:09 asr3 /etc/mysql/debian-start[39699]: This installation of MariaDB is already up-to-date.
Sep 16 11:53:09 asr3 /etc/mysql/debian-start[39699]: There is no need to run mysql_upgrade again.
Sep 16 11:53:09 asr3 /etc/mysql/debian-start[39699]: You can use --force if you still want to run mysql_upgrade.
Sep 16 11:53:09 asr3 /etc/mysql/debian-start[39707]: Checking for insecure root accounts.
root@asr3:~#

root@asr3:~# sudo systemctl enable mariadb
root@asr3:~#

root@asr3:~# mariadb --version
mariadb Ver 15.1 Distrib 10.3.38-MariaDB, for debian-linux-gnu (x86_64) using readline 5.2
root@asr3:~#

go a bit snootier. You should remove them before moving into a production environment.
Remove anonymous users? [Y/n] Y
... Success!

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.
Disallow root login remotely? [Y/n] Y
... Success!

By default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.
Remove test database and access to it? [Y/n] Y
- Dropping test database...
... Success!
- Removing privileges on test database...
... Success!

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.
Reload privilege tables now? [Y/n] Y
... Success!

Cleaning up...

All done! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!
root@asr3:~#
```

PHP:

The following steps were performed in the terminal:

```
root@asr3:~# sudo apt-get install php7.4
root@asr3:~# sudo apt-get install php7.4-opcache
root@asr3:~# sudo apt-get install php7.4-pdo
root@asr3:~# sudo systemctl restart apache2
root@asr3:~# php -v
PHP 7.4.3-4ubuntu2.19 (cli) (built: Jun 27 2023 15:49:59) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
with Zend OPcache v7.4.3-4ubuntu2.19, Copyright (c), by Zend Technologies
```

The PHP configuration page (localhost/info.php) displays the following information:

PHP Version 7.4.3-4ubuntu2.19	
System	Linux asr3 5.15.0-83-generic #92~20.04.1-Ubuntu SMP Mon Aug 21 14:00:49 UTC 2023 x86_64
Build Date	Jun 27 2023 15:49:59
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.4/apache2
Loaded Configuration File	/etc/php/7.4/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/7.4/apache2/conf.d
Additional .ini files parsed	/etc/php/7.4/apache2/conf.d/00-mysqlnd.ini, /etc/php/7.4/apache2/conf.d/20-opcache.ini, /etc/php/7.4/apache2/conf.d/20-pdo.ini, /etc/php/7.4/apache2/conf.d/20-calendar.ini, /etc/php/7.4/apache2/conf.d/20-curl.ini, /etc/php/7.4/apache2/conf.d/20-ffi.ini, /etc/php/7.4/apache2/conf.d/20-gd.ini, /etc/php/7.4/apache2/conf.d/20-geoip.ini, /etc/php/7.4/apache2/conf.d/20-gmp.ini, /etc/php/7.4/apache2/conf.d/20-igmp.ini, /etc/php/7.4/apache2/conf.d/20-intl.ini, /etc/php/7.4/apache2/conf.d/20-ldap.ini, /etc/php/7.4/apache2/conf.d/20-mbstring.ini, /etc/php/7.4/apache2/conf.d/20-mcrypt.ini, /etc/php/7.4/apache2/conf.d/20-mysqlnd.ini, /etc/php/7.4/apache2/conf.d/20-openssl.ini, /etc/php/7.4/apache2/conf.d/20-sockets.ini, /etc/php/7.4/apache2/conf.d/20-sysvmsg.ini, /etc/php/7.4/apache2/conf.d/20-sysvshm.ini, /etc/php/7.4/apache2/conf.d/20-tokenizer.ini
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	AP320190902.NTS
PHP Extension Build	AP20190902.NTS
Debug Build	no
Thread Safety	disabled