

CentOS - Systems Administration and Security Cheat Sheet by Bayan (Bayan.A) via cheatography.com/122738/cs/44041/

| Install Apache / Verify Status | | |
|--------------------------------|---------------------------------|--|
| Install HTTPD service | yum install httpd | |
| Check httpd status | systemctl status httpd.s ervice | |
| Configuring Anacho UTTD Conjus | | |

| Confirguring Apache HTTP Server | | |
|---------------------------------|--|--|
| Inspect Control Script | less /etc/s yst emd /sy ste m/m ult i-u ser.ta rge t.w ant s/h ttp d.s ervice | |
| | displays the contents of the httpd.service file for the Apache HTTP server in the systemd multi-user target. | |
| Get default start-up state | systemctl get-de fault | |
| | shows the default target (runlevel) that the system boots into. | |
| Find config file | find / -name httpd.conf | |
| Inspect config file | nano /etc/h ttp d/c onf /ht tpd.conf | |
| | nano [location of config file found using find] | |
| .htaccess & .htpasswd | Note that these are hidden by default, to prevent files being viewed by web clients | |
| ErrorLog | Find and take note of where the errorlog is located (usually logs/e rro r_log) | |
| Docume ntRoot | The web document location is usually the /var/w ww/html | |

| Investigate Processes, Make & Test Apache | |
|---|--------------------------------------|
| List processes and filters for those related to httpd | ps -ef grep httpd |
| Rules for incoming traffic | iptables -L INPUT |
| Create index.html file | 1) Navigate to appropriate directory |
| | e.g.:cd /var/w ww/html |
| | 2) create and edit file using nano |
| | e.g.:sudo nano index.html |
| View access log | cat /var/l og/ htt pd/ acc ess_log |
| Request local page | curl http:/ loc alhost |

| MySQL/MariaDB Installation, Start & Status | |
|--|---|
| MariaDB Installation | yum install mariad b-s erver |
| Confirm MySQL/MariaDB is installed | find / -name mysql |
| Start MariaDB | systemctl start mariadb |
| Check MariaDB Status | systemctl status mariadb |
| Confirm servers are running | ps -ef |
| | This produces a list of running servers, where you will search for mysql in the far left column(the UID(User ID)) |
| Set new password for mysqladmin root | mysqladmin -u root password [INSERT PASSWORD] |



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| MySQL Config file & Data Directory | |
|------------------------------------|---|
| Find config file (my.cnf) location | sudo find / -name my.cnf less |
| Navigate to config file directory | cd [INSERT DIRECTORY] |
| | e.g. in my case, my.cnf was located found to be /etc/my.cnf, so cd /etc is used |
| View contents of config file | cat my.cnf |
| Locate MySQL Daemon | find / -name mysqld |

| Create & Populate Database | |
|---|--|
| Enter MariaDB Server | mysql -h localhost -u root -p |
| | Then enter password created previously. Note, password will not show any typing. |
| Create database | `CREATE DATABASE [database name]; |
| | e.g. CREATE DATABASE food; |
| Change to created database | USE [database] |
| | e.g. `USE food' |
| Exit MariaDB | quit |
| Confirm database was created outside of MariaDB | Change to appropriate directory cd /var/l ib/ mysql |
| | Display contents of current directory using 1s |
| Create Table | CREATE TABLE restaurant (name VARCHA R(40), type VARCHA R(40), location VARCHA R(4)); |
| | VARCHAR(n) defines variable length |
| Insert values into restaurant table | <pre>INSERT INTO restaurant (name, type, location) values ("Pi zza hut ", " Ita lia n", " - SW1 0");</pre> |
| Show table | SHOW TABLES; DESCRIBE restau rant; SELECT * FROM restau rant; |
| Delete value from table | DELETE FROM restaurant WHERE name="P izz a"& &l oca tio n="S W10 "; |
| Create new user | GRANT SELECT ON food.r est aurant TO bayan@ loc alhost IDENTIFIED BY " bay ans _pa ss w ord "; |

| Firewalls | |
|---|--|
| Confirm firewalld is running | systemctl status firewalld |
| Check firewall conifiguration | firewa ll-cmdlist-all |
| Display firewall rules | `iptables -L' |
| Services/ports available for sshd | systemctl status sshd |
| Services/ports available for httpd | systemctl status httpd |
| Services/ports available for vsftp | systemctl status vsftp |
| | if not installed, use yum install. e.g. ${\tt yum}$ install ${\tt vsftpd}$ |
| Stop firewalld, then check if running to confirm it is infact stopped** | systemctl stop firewalld |
| Start firewalld | systemctl start firewalld |



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| Firewalls (cont) | |
|--|--|
| Add http service to firewall configuration | firewa ll-cmdadd- service http |
| Add ftp service to firewall configuration | firewa ll-cmdadd- service ftp |
| iptables rules for accepting traffic for ports 22(SSH), 80(HTTP), and 21 (FTP) | iptables -A INPUT -p tcpdport 22 -j ACCEPT |
| | iptables -A INPUT -p tcpdport 80 -j ACCEPT |
| | iptables -A INPUT -p tcpdport 21 -j ACCEPT |
| Add rules to output chain | iptables -A OUTPUT -m statestate ESTABL ISHED, RELATED -j ACCEPT |
| Dropping default rules for INPUT and OUTPUT traffic | iptables -P INPUT DROP |
| | iptables -P OUTPUT DROP |

| SELinux | |
|--|--|
| Install setroubleshoot and httpd | sudo yum install setrou ble shoot httpd |
| Enable httpd | systemctl enable httpd |
| Start httpd | systemctl start httpd |
| Check default directory for HTML files | <pre>cat /etc/h ttp dco nf/ htt pd.conf grep Docume - ntRoot</pre> |
| Check SELinux permissions / context | ls -lZ index.html |
| Temporarily disable SELinux enforcement for troubleshooting or testing without changing the permanent configuration. | setenforce 0 |
| Re-enable SELinux enforcement after it has been disabled, restoring its security policies. | setenforce 1 |
| Apply default SELinux to a file: | /sbin/ res torecon -v /var/w ww/ htm 1/s ecr et.h tml |



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