

Dynamic website using WordPress

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Dynamic Website

Build RDS database and run Instance

The screenshot shows the AWS Management Console for the us-east-1 region. The 'Instances' page displays a table with one instance, 'new_instance', which is in the 'Running' state. Below the table, the details for 'i-0a1d3ebffa71eb3e7' are shown. The instance is a t2.micro type, running in the us-east-1a Availability Zone. It has a public IP address of 13.217.197.57 and a public DNS name of ec2-13-217-197-57.compute-1.amazonaws.com. The instance is associated with the EC2-SSMRole IAM role and is running on the Amazon Linux 2 AMI.

The screenshot shows the AWS Management Console for the us-east-1 region, specifically the RDS 'database-1' page. The instance is in the 'Available' state and is a MySQL Community Edition instance. The 'Connectivity & security' tab is selected, showing the endpoint, port, and VPC configuration. The instance is associated with the rds-ca-rsa2048-g1 certificate authority and has a public IP address of 13.217.197.57. The instance is running on the Amazon Linux 2 AMI.

Connect to Terminal and install Mariadb

```
us-east-1.console.aws.amazon.com/systems-manager/session-manager/i-0a1d3ebffa71eb3e7?region=us-east-1#f:

Session ID: admin_user_nov_2024-79c5vo2v2g2ocpkxh27g2lgyd | Shortcuts | Instance ID: i-0a1d3ebffa71eb3e7 [Terminate]

Dependencies resolved.
Nothing to do.
Complete!
Last metadata expiration check: 0:24:42 ago on Fri Aug 22 15:36:08 2025.
Package httpd-2.4.62-1.amzn2023.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
sh-5.2$ sudo yum install mariadb105-server -y
Last metadata expiration check: 0:26:45 ago on Fri Aug 22 15:36:08 2025.
Dependencies resolved.

Package                               Architecture      Version            Repository          Size
-----
Installing:
mariadb105-server                     x86_64            3:10.5.29-1.amzn2023.0.1  amazonlinux         10 M
Installing dependencies:
mariadb105-errmsg                     x86_64            3:10.5.29-1.amzn2023.0.1  amazonlinux         212 k
mysql-seLinux                         noarch            1:0.4-2.amzn2023.0.3      amazonlinux          36 k
perl-B                                x86_64            1.80-477.amzn2023.0.7      amazonlinux         177 k
perl-DBD-MariaDB                     x86_64            1.22-1.amzn2023.0.4        amazonlinux          153 k
perl-DBI                              x86_64            1.643-7.amzn2023.0.3       amazonlinux          700 k
perl-Data-Dumper                     x86_64            2.174-460.amzn2023.0.2     amazonlinux          55 k
perl-File-Copy                        noarch            2.34-477.amzn2023.0.7      amazonlinux          20 k
perl-FileHandle                       noarch            2.03-477.amzn2023.0.7      amazonlinux          15 k
perl-Math-BigInt                      noarch            1:1.9998.39-2.amzn2023.0.2  amazonlinux         202 k
perl-Math-BigIntat                    noarch            0.2624-500.amzn2023.0.2    amazonlinux          42 k
perl-Math-Complex                     noarch            1.59-477.amzn2023.0.7      amazonlinux          46 k
perl-base                             noarch            2.27-477.amzn2023.0.7      amazonlinux          16 k
Installing weak dependencies:
mariadb105-backup                     x86_64            3:10.5.29-1.amzn2023.0.1  amazonlinux         6.0 M
mariadb105-cracklib-password-check    x86_64            3:10.5.29-1.amzn2023.0.1  amazonlinux          13 k
mariadb105-gssapi-server              x86_64            3:10.5.29-1.amzn2023.0.1  amazonlinux          13 k
mariadb105-server-utils               x86_64            3:10.5.29-1.amzn2023.0.1  amazonlinux         207 k

Transaction Summary
-----
Install 17 Packages

Total download size: 18 M
Installed size: 98 M
Downloading Packages:
(1/17): mariadb105-cracklib-password-check-10.5.29-1.amzn2023.0.1.x86_64.rpm 258 kB/s | 13 kB 00:00
(2/17): mariadb105-gssapi-server-10.5.29-1.amzn2023.0.1.x86_64.rpm          672 kB/s | 15 kB 00:00
(3/17): mariadb105-errmsg-10.5.29-1.amzn2023.0.1.x86_64.rpm                 2.5 MB/s | 212 kB 00:00
(4/17): mariadb105-backup-10.5.29-1.amzn2023.0.1.x86_64.rpm                 4.8 MB/s | 6.0 MB 00:00
(5/17): mariadb105-server-utils-10.5.29-1.amzn2023.0.1.x86_64.rpm           4.3 MB/s | 207 kB 00:00
(6/17): mysql-seLinux-1.0.4-2.amzn2023.0.3.noarch.rpm                       1.2 MB/s | 36 kB 00:00
(7/17): perl-B-1.80-477.amzn2023.0.7.x86_64.rpm                            4.2 MB/s | 177 kB 00:00
(8/17): perl-DBD-MariaDB-1.22-1.amzn2023.0.4.x86_64.rpm                    4.2 MB/s | 153 kB 00:00
(9/17): perl-DBI-1.643-7.amzn2023.0.3.x86_64.rpm                           2.6 MB/s | 700 kB 00:00
(10/17): perl-Data-Dumper-2.174-460.amzn2023.0.2.x86_64.rpm                850 kB/s | 55 kB 00:00
(11/17): perl-File-Copy-2.34-477.amzn2023.0.7.noarch.rpm                   731 kB/s | 20 kB 00:00
(12/17): perl-FileHandle-2.03-477.amzn2023.0.7.noarch.rpm                  47 MB/s | 15 kB 00:00
(13/17): mariadb105-server-10.5.29-1.amzn2023.0.1.x86_64.rpm               754 kB/s | 10 MB 00:00
(14/17): perl-Math-BigInt-1:1.9998.39-2.amzn2023.0.2.noarch.rpm            2.8 MB/s | 202 kB 00:00
(15/17): perl-Math-BigIntat-0.2624-500.amzn2023.0.2.noarch.rpm              2.8 MB/s | 42 kB 00:00
```

Login to database

```
us-east-1.console.aws.amazon.com/systems-manager/session-manager/i-0a1d3ebffa71eb3e7?region=us-east-1#f:

Session ID: admin_user_nov_2024-79c5vo2v2g2ocpkxh27g2lgyd | Shortcuts | Instance ID: i-0a1d3ebffa71eb3e7 [Terminate]

dnf upgrade --releasever=2023.8.20250721

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.8.20250721.html

Version 2023.8.20250808:
Run the following command to upgrade to 2023.8.20250808:

dnf upgrade --releasever=2023.8.20250808

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.8.20250808.html

Version 2023.8.20250818:
Run the following command to upgrade to 2023.8.20250818:

dnf upgrade --releasever=2023.8.20250818

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.8.20250818.html

=====
Installed:
mariadb105-backup-3:10.5.29-1.amzn2023.0.1.x86_64 mariadb105-cracklib-password-check-3:10.5.29-1.amzn2023.0.1.x86_64 mariadb105-errmsg-3:10.5.29-1.amzn2023.0.1.x86_64 mariadb105-gssapi-server-3:10.5.29-1.amzn2023.0.1.x86_64
mariadb105-server-3:10.5.29-1.amzn2023.0.1.x86_64 mariadb105-server-utils-3:10.5.29-1.amzn2023.0.1.x86_64 mysql-seLinux-1:0.4-2.amzn2023.0.3.noarch perl-B-1.80-477.amzn2023.0.7.x86_64
perl-DBD-MariaDB-1.22-1.amzn2023.0.4.x86_64 perl-DBI-1.643-7.amzn2023.0.3.x86_64 perl-Data-Dumper-2.174-460.amzn2023.0.2.x86_64 perl-File-Copy-2.34-477.amzn2023.0.7.noarch
perl-FileHandle-2.03-477.amzn2023.0.7.noarch perl-Math-BigInt-1:1.9998.39-2.amzn2023.0.2.noarch perl-Math-BigIntat-0.2624-500.amzn2023.0.2.noarch perl-Math-Complex-1.59-477.amzn2023.0.7.noarch
perl-base-2.27-477.amzn2023.0.7.noarch

Complete!
sh-5.2$ mysql -h database-1.cchasiwukvyk.us-east-1.rds.amazonaws.com -p
Enter password:
ERROR 1045 (28000): Access denied for user 'sam-user'@'192.168.20.229' (using password: YES)
sh-5.2$ mysql -h database-1.cchasiwukvyk.us-east-1.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 31
Server version: 8.0.42 Source distribution

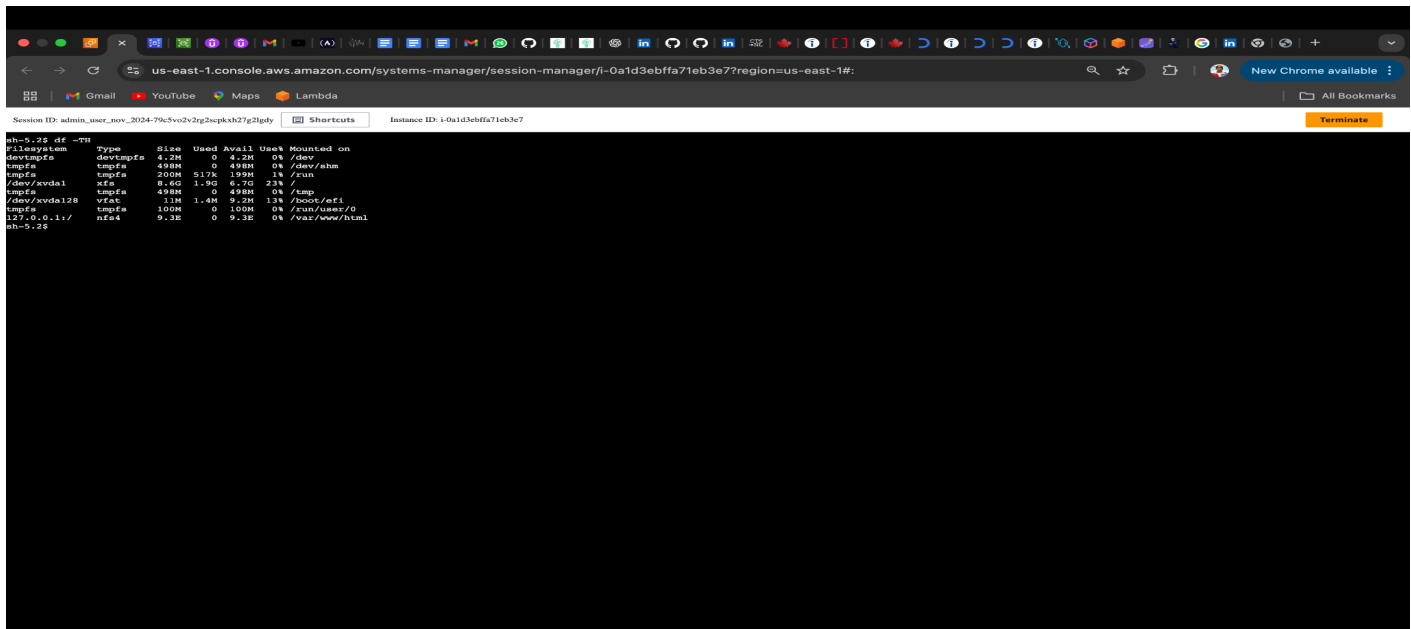
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| Danny    |
| information_schema |
| mysql    |
| performance_schema |
| sys      |
+-----+
5 rows in set (0.012 sec)

MySQL [(none)]>
```

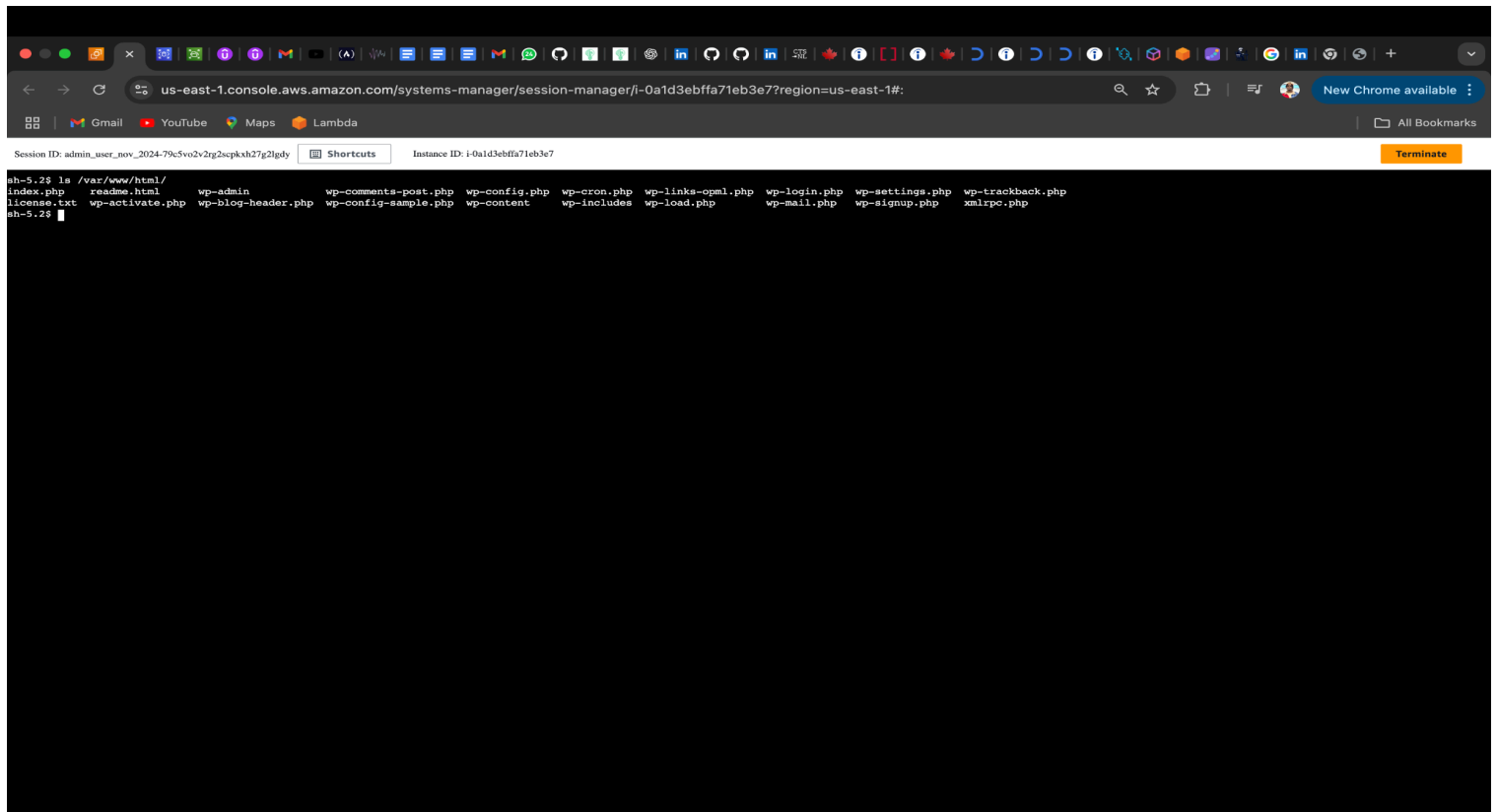
Create Var Location, Create HTML file inside var, install the amazon utils package and mount efs into the html location



The screenshot shows a terminal window within the AWS Systems Manager console. The terminal output displays the results of the `df -TH` command, showing disk usage for various filesystems. The output is as follows:

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
devtmpfs	devtmpfs	8.2M	0	8.2M	0%	/dev
tmpfs	tmpfs	498M	0	498M	0%	/dev/shm
tmpfs	tmpfs	200M	517K	199M	1%	/run
/dev/xvda1	xfs	8.6G	1.9G	6.7G	23%	/
tmpfs	tmpfs	498M	0	498M	0%	/tmp
/dev/xvda128	vfat	11M	1.4M	9.2M	13%	/boot/efi
tmpfs	tmpfs	100M	0	100M	0%	/run/user/0
l2j-0.0.1:/nfs4	nfs4	9.3E	0	9.3E	0%	/var/www/html

Download Wordpress, Unzip and Copy to HTML



The screenshot shows a terminal window within the AWS Systems Manager console. The terminal output displays the results of the `ls` command in the `/var/www/html/` directory. The output is as follows:

```
sh-5.2$ ls /var/www/html/
index.php  readme.html  wp-admin  wp-comments-post.php  wp-config.php  wp-cron.php  wp-links-opml.php  wp-login.php  wp-settings.php  wp-trackback.php
license.txt  wp-activate.php  wp-blog-header.php  wp-config-sample.php  wp-content  wp-includes  wp-load.php  wp-mail.php  wp-signup.php  xmlrpc.php
```

Install app dependencies, Install the latest version of apache website php packages that run in wordpress

```
us-east-1.console.aws.amazon.com/systems-manager/session-manager/j-0a1d3ebffa71eb3e7?region=us-east-1#-
Gmail YouTube Maps Lambda All Bookmarks
Session ID: admin_user_nov_2024-79v5o2z2gkcpksh7g2lgyd Shortcuts Instance ID: i-0a1d3ebffa71eb3e7 Terminate

dnf upgrade --releasever=2023.8.20250707

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relenotes-2023.8.20250707.html

Version 2023.8.20250715:
Run the following command to upgrade to 2023.8.20250715:

dnf upgrade --releasever=2023.8.20250715

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relenotes-2023.8.20250715.html

Version 2023.8.20250721:
Run the following command to upgrade to 2023.8.20250721:

dnf upgrade --releasever=2023.8.20250721

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relenotes-2023.8.20250721.html

Version 2023.8.20250808:
Run the following command to upgrade to 2023.8.20250808:

dnf upgrade --releasever=2023.8.20250808

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relenotes-2023.8.20250808.html

Version 2023.8.20250818:
Run the following command to upgrade to 2023.8.20250818:

dnf upgrade --releasever=2023.8.20250818

Release notes:
https://docs.aws.amazon.com/linux/al2023/release-notes/relenotes-2023.8.20250818.html

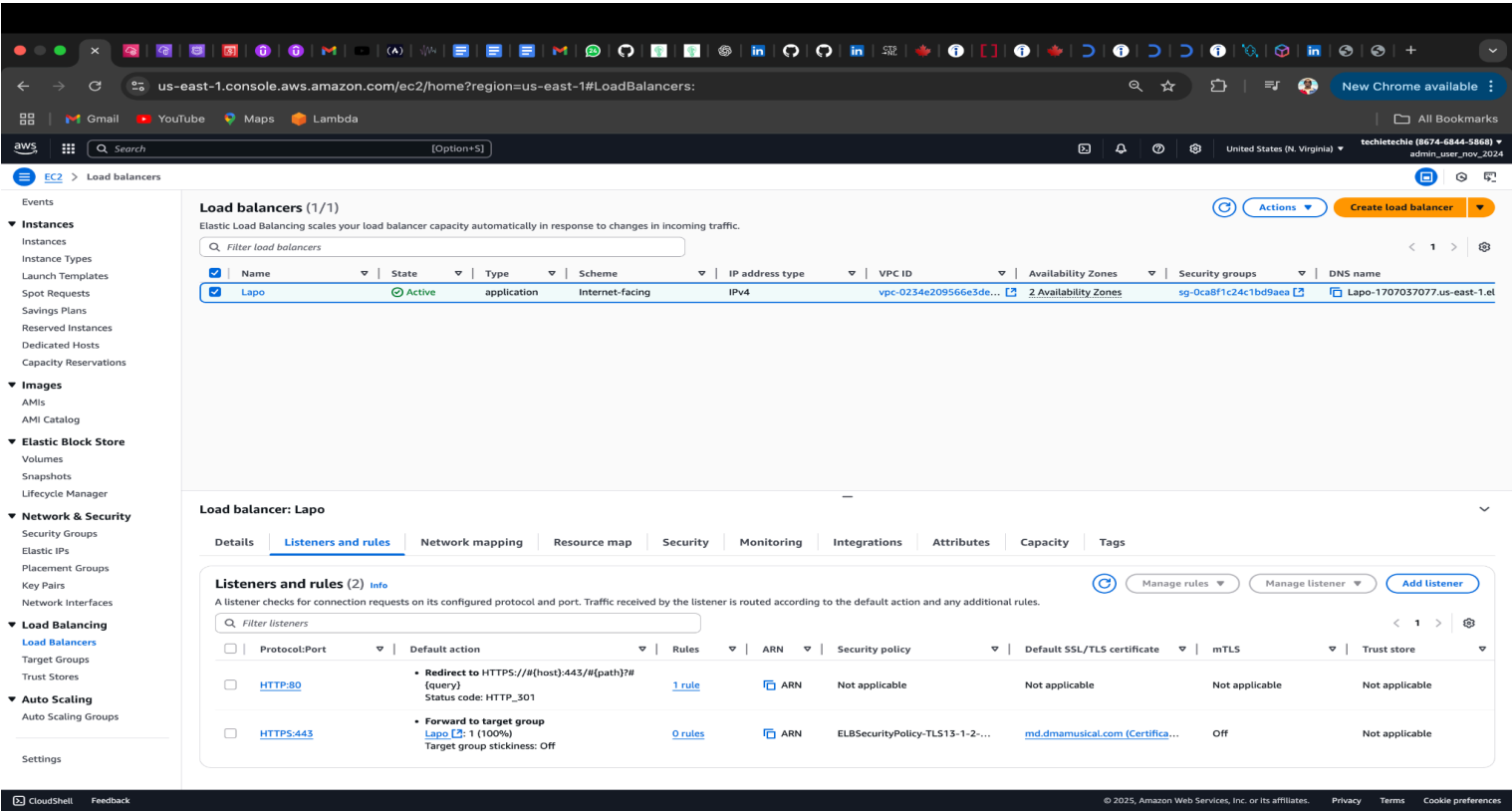
-----
Installed:
annobin-devel-12.69-1.amzn2023.0.1.x86_64      annobin-plugin-gcc-12.69-1.amzn2023.0.1.x86_64      autoconf-2.69-36.amzn2023.0.3.noarch
cmake-filesystem-2.2.2-4.amzn2023.0.4.x86_64    gcc-11.5.0-5.amzn2023.0.4.x86_64                    emacs-fileutils-1.28-2.3.amzn2023.0.10.noarch
gcc-11.5.0-5.amzn2023.0.4.x86_64                  gcc-c++-11.5.0-5.amzn2023.0.4.x86_64                gcc-plugin-annobin-11.5.0-5.amzn2023.0.4.x86_64
glibc-headers-x86-2.34-196.amzn2023.0.1.noarch   kernel-headers-6.12.31-25.92.amzn2023.x86_64        glibc-devel-2.34-196.amzn2023.0.1.x86_64
klibc-devel-1.21-3-1.amzn2023.0.2.x86_64         libcom_err-devel-1.46-8-2.amzn2023.0.2.x86_64        keyutils-liba-devel-1.6-3-1.amzn2023.0.2.x86_64
libbtrfs-devel-3.4-5.amzn2023.0.2.x86_64          libkadm5-1.21-3-1.amzn2023.0.1.x86_64                 libmpc-1.21-2-2.amzn2023.0.2.x86_64
libbtool-2.4-7-1.amzn2023.0.1.x86_64              libltdl-2.4-7-1.amzn2023.0.3.x86_64                   libnet-1.1.4-1.amzn2023.0.1.x86_64
libbtrfs-devel-10.4-1.amzn2023.0.11.x86_64        libperl-5.34.0-1.amzn2023.0.1.x86_64                 libncurses-devel-6.4-11-1.amzn2023.0.4.x86_64
nghttp-filesystem-1.28-0-1.amzn2023.0.1.noarch     libperl-thread-shared-1.61-458.amzn2023.0.2.x86_64    libncurses-devel-11.5.0-5.amzn2023.0.4.x86_64
perl-utf8-10.40-1.amzn2023.0.3.x86_64             perl-File-Compare-1.100.600-477.amzn2023.0.7.noarch  libncrypt-devel-4.4.33-7.amzn2023.x86_64
perl-threads-112.25-458.amzn2023.0.3.x86_64        perl-File-Find-1.37-477.amzn2023.0.7.noarch           make-114.3-5.amzn2023.0.2.x86_64
php8.4-common-8.4.8-1.amzn2023.0.1.x86_64         perl-threads-shared-1.61-458.amzn2023.0.2.x86_64      pcrc2-utf16-10.40-1.amzn2023.0.3.x86_64
php8.4-devel-8.4.8-1.amzn2023.0.1.x86_64          php8.4-fpm-8.4.8-1.amzn2023.0.1.x86_64               perl-Thread-Queue-3.14-458.amzn2023.0.2.noarch
php8.4-opcache-8.4.8-1.amzn2023.0.1.x86_64        php8.4-pdo-8.4.8-1.amzn2023.0.1.x86_64               php8.4-cgi-8.4.8-1.amzn2023.0.1.x86_64
php8.4-sodium-8.4.8-1.amzn2023.0.1.x86_64          php8.4-xml-8.4.8-1.amzn2023.0.1.x86_64                php8.4-mbstring-8.4.8-1.amzn2023.0.1.x86_64
                                                    xz-devel-5.2.5-9.amzn2023.0.2.x86_64                 php8.4-process-8.4.8-1.amzn2023.0.1.x86_64
                                                                                                          wlib-devel-1.2.11-33.amzn2023.0.5.x86_64

Complete!
sh-5.2$
```

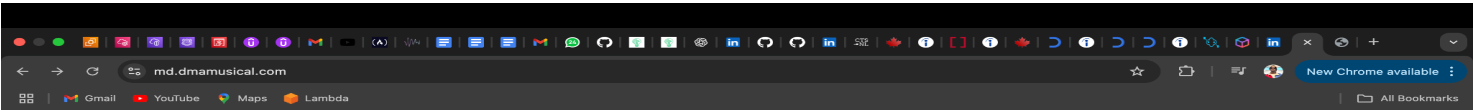
Edit the "wp-config.php" with our database information

[illegible]

Redirect port http to https after attaching certificate



My Dynamic Webpage



Blog

Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!

August 22, 2025