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        timacdonald Update UPGRADE.md ... 🗸
                                                                                                                            Latest commit 41ac15f on Aug 19   History
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       504 lines (360 sloc) 14.9 KB
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               Upgrade Guide
               Migrating from Laravel Mix to Vite
                  Note
                  This upgrade guide does not cover all possible Mix use cases, such as Sass compilation. Please consult the Vite documentation for
                  information on configuring Vite for these scenarios.
               Update Laravel Framework
               To make use of the new Vite integration, you will need to update to at least version 9.19.0 of the laravel/framework:
                 composer require laravel/framework:^9.19.0
               Install Vite and the Laravel Plugin
               First, you will need to install Vite and the Laravel Vite Plugin using your npm package manager of choice:
                 npm install --save-dev vite laravel-vite-plugin
               You may also need to install additional Vite plugins for your project, such as the Vue or React plugins:
                 npm install --save-dev @vitejs/plugin-vue
                 npm install --save-dev @vitejs/plugin-react
               Configure Vite
               Create a vite.config.js file in the root of your project:
                 import { defineConfig } from 'vite';
                 import laravel from 'laravel-vite-plugin';
                 // import react from '@vitejs/plugin-react';
                 // import vue from '@vitejs/plugin-vue';
                 export default defineConfig({
                      plugins: [
                         laravel([
                             'resources/css/app.css',
                             'resources/js/app.js',
                         ]),
                         // react(),
                         // vue({
                                template: {
                         //
                                    transformAssetUrls: {
                         //
                                        base: null,
                         //
                                        includeAbsolute: false,
                         //
                                  },
                         // },
                         // }),
                     ],
                 });
               If you are building an SPA, you will get a better developer experience by removing the CSS entry point above and importing your CSS from
               Javascript.
               Update Aliases
               If you are migrating aliases from your webpack.mix.js file to your vite.config.js file, you should ensure that the paths start with / . For
               example, resources/js would become /resources/js:
                  export default defineConfig({
                     plugins: [
                         laravel([
                             'resources/css/app.css',
                             'resources/js/app.js',
                         ]),
                     ],
                     resolve: {
                         alias: {
                              '@': '/resources/js'
                 });
               For your convenience, the Laravel Vite plugin automatically adds an @ alias for your /resources/js directory. If you do not need to customize
               your aliases, you may omit this section from your vite.config.js file.
               Update NPM scripts
               Update your NPM scripts in package.json:
                    "scripts": {
                       "dev": "npm run development",
                       "development": "mix",
                       "watch": "mix watch",
                       "watch-poll": "mix watch -- --watch-options-poll=1000",
                       "hot": "mix watch --hot",
                       "prod": "npm run production",
                       "production": "mix --production"
                       "dev": "vite",
                       "build": "vite build"
               Vite compatible imports
               Vite only supports ES modules, so if you are upgrading an existing application you will need to replace any require() statements with
                import. You may refer to this pull request for an example.
               Inertia
               Inertia makes use of a require() call that is more complex to replicate with Vite.
               The following function can be used instead:
                  + import { resolvePageComponent } from 'laravel-vite-plugin/inertia-helpers';
                   createInertiaApp({
                       title: (title) => `${title} - ${appName}`,
                       resolve: (name) => require(`./Pages/${name}.vue`),
                       resolve: (name) => resolvePageComponent(`./Pages/${name}.vue`, import.meta.glob('./Pages/**/*.vue')),
                       setup({ el, app, props, plugin }) {
                           return createApp({ render: () => h(app, props) })
                                .use(plugin)
                                .mixin({ methods: { route } })
                                .mount(el);
                       },
                   });
               Additionally, you should ensure you have updated to at least version 0.6.3 of the inertia-laravel package:
                 composer require inertiajs/inertia-laravel:^0.6.3
               Update environment variables
               You will need to update the environment variables that are explicitly exposed in your .env files and in hosting environments such as Forge to
               use the VITE_ prefix instead of MIX_:
                  - MIX_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
                 - MIX_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"
                 + VITE_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
                 + VITE_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"
                  (i) Note
                  You may optionally maintain the MIX_ prefix by configuring Vite to use it.
               You will also need to update these references in your JavaScript code to use the new variable name and Vite syntax:
                      key: process.env.MIX_PUSHER_APP_KEY,

    cluster: process.env.MIX_PUSHER_APP_CLUSTER,

                 + key: import.meta.env.VITE_PUSHER_APP_KEY,
                  + cluster: import.meta.env.VITE_PUSHER_APP_CLUSTER,
               Importing your CSS from your JavaScript entry point(s)
               If you are building an SPA, you will get a better experience by importing your CSS from your JavaScript entry point(s), such as your
                resources/js/app.js entry point:
                   import './bootstrap';
                 + import '../css/app.css';
               In development mode, Vite will automatically inject your CSS into the page. In production, a dedicated stylesheet will be generated that the
                @vite directive will load from the manifest.
               Replace mix() with @vite
               When using Vite, you will need to use the @vite Blade directive instead of the mix() helper.
               This will automatically detect whether you are running in serve or build mode and include all of the required <script> and <link
               rel="stylesheet"> for you:
                  - <link rel="stylesheet" href="{{ mix('css/app.css') }}">
                  - <script src="{{ mix('js/app.js') }}" defer></script>
                 + @vite(['resources/css/app.css', 'resources/js/app.js'])
               The entry points should match those used in your vite.config.js.
               React
               If you are using React and hot-module replacement, you will need to include an additional directive before the @vite directive:
                 @viteReactRefresh
                 @vite('resources/js/app.jsx')
               This loads a React "refresh runtime" in development mode only, which is required for hot module replacement to work correctly.
               JavaScript files containing JSX must use a .jsx extension
               You will need to rename any .js files containing JSX to instead have a .jsx extension. If you need to rename your entry point then you
               should read the entry point docs to learn how to configure the Laravel plugin for your project.
               See this tweet from Vite's creator for more information.
                  Note
                  If you are using Tailwind, remember to update the paths in your tailwind.config.js file.
               Vue imports must include the .vue extension
                  - import Button from './Button';
                 + import Button from './Button.vue';
               Remove Laravel Mix
               The Laravel Mix package can now be uninstalled:
                 npm remove laravel-mix
               And you may remove your Mix configuration file:
                 rm webpack.mix.js
               If you are using StyleCI and have ignored the webpack.mix.js file in your configuration, you may also wish to remove the ignore rule.
               Update Test Helpers
               If you are using the $this->withoutMix(); helper in your tests, you should replace this with $this->withoutVite():
                  - $this->withoutMix();
                 + $this->withoutVite();
               Vapor
               If you are deploying your application to Laravel Vapor, there are a few things you will want to handle before deploying.
               Ensure you have updated to at least version 1.40.0 of the Vapor CLI package:
                 composer require laravel/vapor-cli:^1.40.0
               Next, if you are using the Vapor asset helper in your application, you only need to utilize the asset helper when you are referencing assets you
               don't want bundled, such as those that already live in your public directory.
               If you want to use the asset helper with your Vite project, you will also need to ensure you have updated to the latest version:
                 npm install laravel-vapor@latest
               Then you will need to specify the base URL for assets in your application's entry point, for example in your resources/js/app.js, like so:
                  - window.Vapor = require('laravel-vapor');
                 + import Vapor from 'laravel-vapor';
                  + window.Vapor = Vapor;
                 + window.Vapor.withBaseAssetUrl(import.meta.env.VITE_VAPOR_ASSET_URL)
               Optional: Configure Tailwind
               If you are using Tailwind, perhaps with one of Laravel's starter kits, you will need to create a postcss.config.js file. Tailwind can generate this
               for you automatically:
                 npx tailwindcss init -p
               Or, you can create it manually:
                 module.exports = {
                   plugins: {
                     tailwindcss: {},
                     autoprefixer: {},
                   },
               If you are using other PostCSS plugins, such as postcss-import, you will need to include them in your configuration.
               Optional: Git ignore the build directory
               Vite will place all of your build assets into a build subdirectory inside your public directory. If you prefer to build your assets on deploy instead
               of committing them to your repository, you may wish to add this directory to your .gitignore file:
                 /public/build
               Optional: Update SSR configuration
               You may remove your dedicated Laravel Mix SSR configuration:
                 rm webpack.ssr.mix.js
               In most cases, you won't need a dedicated SSR configuration file when using Vite. You can specify your SSR entry point by passing a
               configuration option to the Laravel plugin:
                 import { defineConfig } from 'vite';
                 import laravel from 'laravel-vite-plugin';
                 export default defineConfig({
                     plugins: [
                         laravel({
                             input: 'resources/js/app.js',
                             ssr: 'resources/js/ssr.js',
                         }),
                     ],
                 });
               You may wish to add the following additional scripts to your package.json:
                   "scripts": {
                        "dev": "vite",
                       "build": "vite build"
                       "build": "vite build && vite build --ssr"
               If you prefer to build your assets on deploy instead of committing them to your repository, you may wish to add the SSR output directory to
               your .gitignore file:
                 /bootstrap/ssr
               You may start the SSR server using node:
                 node bootstrap/ssr/ssr.mjs
               Optional: Expose Vite port when using Laravel Sail
               If you would like to run the npm run dev command in a Laravel Sail container, you will need to publish a port in your docker-compose.yml file:
                 ports:
                      - '${APP_PORT:-80}:80'
                  + - '${VITE_PORT:-5173}:${VITE_PORT:-5173}'
               Wrapping up
               You should now be able to build your assets using dev command. This will also invoke the Vite server and Vite will watch for file changes:
                 npm run dev
               Alternatively, if you need to build files without watching or if you need to build them for production, you may use the build command:
                 npm run build
               For further information on how to use Vite, please check out the Laravel Vite documentation.
               Troubleshooting
               If you have followed the upgrade guide, but are still having issues you should try the following steps:
                 • Run php artisan view:clear to clear any compiled view assets.
                 • If your development web server is running on HTTPS, check out the "Working With A Secure Development Server" section of the
               Migrating from Vite to Laravel Mix
               Install Laravel Mix
               First, you will need to install Laravel Mix using your npm package manager of choice:
                 npm install --save-dev laravel-mix
               Configure Mix
               Create a webpack.mix.js file in the root of your project:
                  const mix = require('laravel-mix');
                         -----
                    Mix Asset Management
                   Mix provides a clean, fluent API for defining some Webpack build steps
                   for your Laravel applications. By default, we are compiling the CSS
                   | file for the application as well as bundling up all the JS files.
                 mix.js('resources/js/app.js', 'public/js')
                      .postCss('resources/css/app.css', 'public/css', [
                         //
                     ]);
               Update NPM scripts
               Update your NPM scripts in package.json:
                    "scripts": {
                        "dev": "vite",
                       "build": "vite build"
                       "dev": "npm run development",
                        "development": "mix",
                        "watch": "mix watch",
                       "watch-poll": "mix watch -- --watch-options-poll=1000",
                       "hot": "mix watch --hot",
                       "prod": "npm run production",
                       "production": "mix --production"
               Inertia
               Vite requires a helper function to import page components which is not required with Laravel Mix. You can remove this as follows:
                  - import { resolvePageComponent } from 'laravel-vite-plugin/inertia-helpers';
                   createInertiaApp({
                       title: (title) => `${title} - ${appName}`,
                       resolve: (name) => resolvePageComponent(`./Pages/${name}.vue`, import.meta.glob('./Pages/**/*.vue')),
                       resolve: (name) => require(`./Pages/${name}.vue`),
                       setup({ el, app, props, plugin }) {
                           return createApp({ render: () => h(app, props) })
                                .use(plugin)
                                .mixin({ methods: { route } })
                                .mount(el);
                       },
                   });
               Update environment variables
               You will need to update the environment variables that are explicitly exposed in your .env files and in hosting environments such as Forge to
               use the MIX_ prefix instead of VITE_:
                  - VITE_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
                  - VITE_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"
                 + MIX_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
                 + MIX_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"
               You will also need to update these references in your JavaScript code to use the new variable name and Node syntax:
                      key: import.meta.env.VITE_PUSHER_APP_KEY,
                      cluster: import.meta.env.VITE_PUSHER_APP_CLUSTER,
                      key: process.env.MIX_PUSHER_APP_KEY,
                     cluster: process.env.MIX_PUSHER_APP_CLUSTER,
               Remove CSS imports from your JavaScript entry point(s)
               If you are importing your CSS via JavaScript, you will need to remove these statements:
                  - import '../css/app.css';
               Replace @vite with mix()
               You will need to replace the @vite Blade directive with <script> and <link rel="stylesheet"> tags and the mix() helper:
                  @viteReactRefresh
                  - @vite('resources/js/app.js')
                 + <link rel="stylesheet" href="{{ mix('css/app.css') }}">
                 + <script src="{{ mix('js/app.js') }}" defer></script>
               Remove Vite and the Laravel Plugin
```

Vite and the Laravel Plugin can now be uninstalled:

Next, you may remove your Vite configuration file:

You may also wish to remove any .gitignore paths you are no longer using:

npm remove vite laravel-vite-plugin

rm vite.config.js

- /bootstrap/ssr

- /public/build