Laravel Artisan Laravel CLI

START HERE

`php artisan list`
See all commands

`php artisan serve`
Run the dev server

`php artisan make:model <Name> -mfc`
Model, migration, factory, controller

`php artisan migrate`
Apply migrations

`php artisan route:list`
Show all routes

`php artisan tinker`
Open the REPL

`php artisan test`
Run the tests

`php artisan optimize`
Cache for production

Route routes/web.php → dispatches → **Controller** make:controller → uses → **Model** make:model → stored by → **Migration** migrate

CONCEPTS

Every command has its own help: php artisan help <command>. Add -v to see more detail on failures.

Commands that ship with the app are listed by php artisan list; your own live in app/Console/Commands.

In production most destructive commands ask for confirmation. Pass --force to skip the prompt in scripts.

RUN & INSPECT

`php artisan list`
List all commands

`php artisan help <command>`
Show a command's options

`php artisan serve`
Start the PHP dev server

`php artisan serve --host=<ip> --port=<n>`
Serve on another host or port

`php artisan dev`
Server, queue, logs and Vite together
Needs Node 22.13 or later; new in recent Laravel versions.

`php artisan tinker`
Open an interactive REPL

`php artisan about`
Overview of app and environment

`php artisan config:show <file>`
Print one config file's values

`php artisan model:show <Model>`
Show a model's columns and relations

GENERATE CODE

`php artisan make:model <Name>`
Create a model

`php artisan make:model <Name> -m`
Model plus migration

`php artisan make:model <Name> -mfsc`
Model with migration, factory, seeder, controller

`php artisan make:model <Name> -a`
Model plus every companion class

`php artisan make:controller <Name>`
Create a controller

GENERATE CODE (cont.)

`php artisan make:controller <Name> --resource`
Controller with CRUD methods

`php artisan make:migration <name>`
Create a migration

`php artisan make:middleware <Name>`
Create middleware

`php artisan make:job <Name>`
Create a queued job

`php artisan make:test <Name>`
Create a feature test

`php artisan make:test <Name> --unit`
Create a unit test

DATABASE

`php artisan migrate`
Run pending migrations

`php artisan migrate:status`
Show which migrations ran

`php artisan migrate:rollback`
Undo the last batch

`php artisan migrate:rollback --step=<n>`
Undo the last n migrations

`php artisan migrate:fresh`
Drop all tables and re-migrate
Drops every table, including ones not from migrations.

`php artisan migrate:fresh --seed`
Rebuild and seed in one go

`php artisan migrate --pretend`
Show the SQL without running it

`php artisan migrate --force`
Run in production without a prompt

`php artisan db:seed`
Run the DatabaseSeeder

`php artisan db:seed --class=<Seeder>`
Run one seeder

ROUTES & CONFIG

`php artisan route:list`
List all routes

`php artisan route:list --path=<prefix>`
Filter routes by path

ROUTES & CONFIG (cont.)

`php artisan route:list --except-vendor`
Hide routes from packages

`php artisan route:list -v`
Show route middleware

`php artisan install:api`
Add API routes and Sanctum

`php artisan config:publish <name>`
Publish a config file

`php artisan key:generate`
Generate the app key

`php artisan storage:link`
Link public/storage to storage/app/public

CACHE & DEPLOY

`php artisan optimize`
Cache config, events, routes, views

`php artisan optimize:clear`
Remove those caches and the app cache

`php artisan config:cache`
Cache the merged config
After this .env is not read; call env() only inside config files.

`php artisan config:clear`
Drop the cached config

`php artisan route:cache`
Cache route registration

`php artisan view:cache`
Precompile Blade views

`php artisan down`
Enter maintenance mode

`php artisan up`
Leave maintenance mode

QUEUES & SCHEDULE

`php artisan queue:work`
Process queued jobs

`php artisan queue:work --queue=<a>,<b>`
Process queues in priority order

`php artisan queue:work --tries=<n>`
Max attempts per job

`php artisan queue:work --timeout=<sec>`
Max seconds per job

`php artisan queue:listen`
Worker that reloads code per job

`php artisan queue:restart`
Tell workers to exit after their job

QUEUES & SCHEDULE (cont.)

`php artisan queue:failed`
List failed jobs

`php artisan queue:retry all`
Retry every failed job

`php artisan make:queue-table`
Create the jobs table migration

`php artisan schedule:list`
List scheduled tasks

`php artisan schedule:work`
Run the scheduler locally

`php artisan schedule:run`
Run due tasks (call from cron)

TESTING

`php artisan test`
Run the test suite

`php artisan test --filter=<name>`
Run matching tests only

`php artisan test --testsuite=<Feature|Unit>`
Run one suite

`php artisan test --stop-on-failure`
Stop at the first failure

`php artisan test --parallel`
Run tests in several processes
Needs brianium/paratest as a dev dependency.

`php artisan test --coverage`
Report coverage (Xdebug or PCOV)

RECIPES

Fresh local database

```
php artisan migrate:fresh --seed
php artisan route:list --except-vendor
php artisan test
```

Deploy script

```
php artisan down --refresh=15
php artisan migrate --force
php artisan optimize
php artisan queue:restart
php artisan up
```

Cron entry for the scheduler

```
# run every minute from crontab
* * * * * cd /path-to-your-project && php artisan schedule:run >> /dev/null 2>&1
```

New resource scaffold

```
php artisan make:model Flight -mfsc
# edit the migration, then:
php artisan migrate
php artisan db:seed --class=FlightSeeder
```