

Parallelization with Cypress Cloud (Clear Steps)

1. Connect your project to Cypress Cloud

- Run `npx cypress open` and link the project.
 - Cypress auto-adds:
 - `projectId` to `cypress.config.js`
 - Add `CYPRESS_RECORD_KEY` to CI environment variables.
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2. Configure CI to run multiple machines

- Use a matrix or parallel jobs in CI (e.g., GitHub Actions):

```
matrix:  
  containers: [1, 2, 3]
```

This creates 3 parallel runners.

3. Use the Cypress Cloud parallel run command

Each runner should execute:

```
npx cypress run --record --parallel --group "<group-name>" --ci-build-id "<unique-id>"
```

Important:

- All parallel runners must share the **same ci-build-id**.
- Each runner may have a different `group` name (optional but helpful).

4. Cypress Cloud handles the splitting

- Cloud receives all machines with the same `ci-build-id`.
 - Automatically distributes specs across available machines.
 - Uses historical timing data for optimal balancing.
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5. Verify parallelization

In Cypress Cloud:

- Multiple machines appear under the run.
 - Different specs assigned to different groups (e.g., group-1, group-2).
 - Total test duration is significantly lower than running on a single machine.
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This is the exact minimum required to achieve full parallelization with Cypress Cloud.