

New Machine Migration Guide

This document details the exact steps to move development of this Playwright + Docker test workspace to a new computer (laptop or desktop) and get back to green test runs quickly. ---

1. Hardware Quick Checklist

Minimum acceptable (budget):

- CPU: Ryzen 5 5600H / 6600H / 7535HS or Intel i5-11400H / 12450H (avoid U-series)
- RAM: 16 GB upgradeable (target 32 GB soon)
- SSD: 512 GB NVMe (second M.2 slot ideal)

Recommended (performance):

- CPU: Ryzen 7 7700X / Ryzen 9 7940HS (laptop) or Intel i7-13700H / i7-13700K
- RAM: 32 GB (expandable to 64 GB)
- SSD: 1 TB NVMe Gen4 (plus second for Docker cache/artifacts)

2. OS Decision

Scenario Choose Notes ----- ----- -----	Pure dev performance Ubuntu 24.04 LTS Simplest for Docker & Playwright	Need Windows apps Windows 11 Pro + WSL2 Keep repo inside WSL Linux FS	Unsure / hybrid Start Windows + WSL2 Optionally dual-boot later
---	--	---	---

3. Pre-Migration Inventory (Old Machine)

Before you move, collect:

- Git status: `git branch` , `git status` (ensure main is clean or pushed).
- Unpushed branches: `git branch -vv | grep ahead` .
- Tags or release refs if used: `git tag` .
- Local environment files (`.env`) – DO NOT COMMIT; copy manually.
- SSH keys (if needed) – or generate new on new machine.

- npm global tools you rely on: `npm ls -g --depth=0` .
- Docker images you care about (optional): `docker images` .
- Test artifacts you want to preserve: `reports/` , `playwright-report/` , `logs/` .

4. Transfer Strategy

Preferred: fresh clone (avoid copying node_modules). Then selectively copy:

- `/logs` (if you want historical run lines)
- Any custom config files you added
- PDF test reports if needed for audit

Avoid copying: `node_modules` , Playwright browsers cache, Docker layer cache directories (rebuild fresh).

5. New Machine Base Setup

5.1 Windows + WSL2

1. Enable virtualization in BIOS (VT-x / AMD-V). 2. Open PowerShell (Admin): `wsl --install` (Ubuntu) then reboot. 3. Install Docker Desktop (enable WSL backend, disable legacy Hyper-V). 4. Inside WSL: install core packages: - `sudo apt update && sudo apt install -y git curl build-essential` . 5. Install Node (LTS) via nvm: - `curl -o https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.7/install.sh | bash` - `nvm install --lts` .

5.2 Native Linux (Ubuntu 24.04)

1. `sudo apt update && sudo apt install -y git curl build-essential docker.io docker-compose-plugin` 2. Add user to docker group: `sudo usermod -aG docker $USER` then log out/in. 3. Install nvm (same as above) and Node LTS.

6. Clone & Install

```
`` bash git clone Playwright_Mytheresa cd Playwright_Mytheresa npm ci npx playwright install `` If behind corporate proxy, configure npm + git before install.
```

7. Environment & Secrets

Create `.env` (if the project uses one). Keep secrets out of version control. Example template (adjust):

.env (NOT COMMITTED)

`API_BASE=https://api.example.com AUTH_TOKEN=` Never put tokens inside test specs; read from `process.env`.

8. Validating Setup

Run a quick subset: `` bash npx playwright test tests/challenge/test-case-4-github-pr-scrapers.spec.ts --project=chromium`` Then full suite: `` bash npm test`` Check `playwright-report/` or `reports/` for HTML report.

9. Docker Tasks (Optional)

Pull or rebuild required images: `` bash docker compose pull || true docker compose build --pull docker compose up -d`` Prune old/unused data occasionally: `` bash docker system prune --volumes`` (Review output carefully first.)

10. Performance Tweaks

- Increase Playwright workers: edit `playwright.config.ts` or pass `--workers=`.
- Disable videos/screenshots for passing tests to reduce I/O.
- Use NVMe for Docker data (optionally symlink or custom data-root).

11. Regenerating PDF Reports

Playwright HTML report → PDF: `` bash npm run report:pdf`` Custom markdown to PDF (this guide): `` bash node scripts/generate-migration-pdf.js MIGRATION_GUIDE.md`` Output lands in root as `MIGRATION_GUIDE_.pdf`.

12. Keeping Repo Updated

- Pull frequently: `git pull --rebase .`

- Keep feature branches short-lived; merge back quickly.
- Commit new machine config only if generic (avoid absolute local paths or secrets).

13. Checklist (Copy/Paste)

```
[ ] BIOS virtualization enabled [ ] OS installed / WSL2 ready [ ] Git + Node  
installed [ ] Docker installed / user in docker group [ ] Repo cloned [ ] npm ci  
completed [ ] Playwright browsers installed [ ] .env recreated [ ] Smoke test passes [  
] Full suite passes [ ] PDF reports generated (optional) '
```

14. Troubleshooting

Symptom	Likely Cause	Fix
Slow installs	Using /mnt/c in WSL	Work in Linux FS (/home)
Docker permission denied	Not in docker group	sudo usermod -aG docker \$USER
Playwright browsers missing	Skipped install step	logout/login
Tests flaky on new machine	npx playwright install	
Resource contention / low RAM	Resource contention / low RAM	Close background apps; reduce workers

15. Security Notes

- Never commit `.env` or secrets.
- Rotate tokens when moving machines if policy requires.
- Delete old machine copies of sensitive files.

--- End of Migration Guide