

Railway Deep Dive 2026

The solo developer's backend. Push code, get a URL. The cheat sheet for the platform we run on.

\$5-30

TYPICAL SOLO /MO

3

CORE CONCEPTS

~5min

FIRST DEPLOY

Zero

DOWNTIME DEPLOYS

• Mental model — projects, services, environments

CONTAINER

Project

Top-level. RDR2 Companion = one project. Groups all related services + env config.

Service

A running piece of software. Typical: backend + maybe worker + maybe cron.

Environment

Copy of services with different config. **production** + **staging** standard.

• Managed databases (one-click)

DEFAULT

PostgreSQL

Relational. Use this unless you have a specific reason otherwise.

Redis

Key-value cache. Rate limiting state. Sessions.

MySQL

Legacy compat.

MongoDB

Document store.

SERVICE REFERENCES

Cross-service variables: `{{Postgres.DATABASE_URL}}` resolves automatically. Swap the DB; your backend code doesn't change.

WHEN TO GROW OUT

Bill consistently > \$500/mo after optimization · need niche service Railway doesn't offer · regulated compliance requirements · global multi-region · then AWS / GCP.

TIPS YOU ONLY LEARN LATER

- 1 Pin Node version**
In package.json engines field
- 2 Use service references**
Internal calls go over fast private network
- 3 Implement /health**
Prevents broken deploys getting traffic
- 4 Set NODE_ENV=production**
Libraries change behavior on it
- 5 Match staging vars to prod**
Biggest "works in staging" cause

CLI ESSENTIALS

- 1 railway link**
Link local repo to project
- 2 railway run npm start**
Local with prod env vars loaded
- 3 railway up**
Deploy directly w/o GitHub
- 4 railway logs**
Tail from terminal
- 5 railway open**
Open dashboard for project

Full guide: djenterprises.ai/blog/railway-deep-dive

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