SunshineSpend Team Server Stack **Documentation**

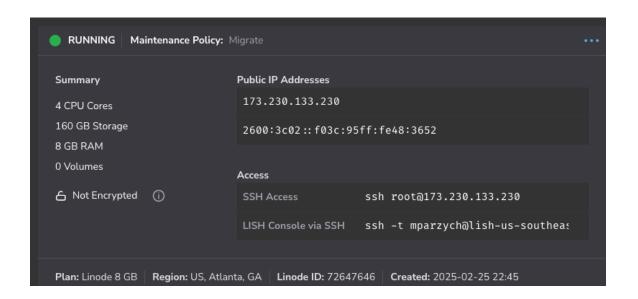
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Server Attributes

- OS: Ubuntu 24.04 LTS (Noble Numbat)
- Kernel: Linux (x86_64, systemd-based)
- Hosting: Linode VPS
- Networking:
- Public domains per team: teamXX.sunshinespend.com
- Private app binding: 127.0.0.1:900X (per team Gunicorn/Flask)
- Apache reverse proxy with SSL (via acme.sh)
- Filesystem Layout:

```
/srv/groups/teamXX/
— web/ (PHP app + static files)
 - python/ (Flask app code + wsgi.py)
 - node/ (Node.js app)
 venv/ (Python virtualenv)
```



Installed Software

System System

OpenSSL: v3.0.x (Ubuntu default)systemd: v252.x (Ubuntu 24.04)acme.sh: latest (for SSL certs)

Web Server

- Apache: 2.4.x
- Modules enabled:
- proxy, proxy_http, proxy_fcgi
- setenvif, rewrite, ssl
- Configured vhosts for:
- /pyapp → Flask (Gunicorn)
- /nodeapp → Node.js (pm2 or systemd)
- /bot → ChatGPT API proxy (Flask)
- /index.php \rightarrow PHP web app

PHP

- PHP: 8.3.x (from Ubuntu repos)
- PHP-FPM: enabled
- Extensions:
- php8.3-mysql (MySQL support)
- php8.3-cli

2 Python

- Python: 3.12.x (Ubuntu default)
- Virtualenv per team: /srv/groups/teamXX/venv/
- Gunicorn: 23.0.0
- Flask: 3.x
- PyMySQL: latest
- cryptography: installed for MySQL sha256_password auth
- requests: installed
- Other team libs pinned via requirements.txt

Node.js

- Node.js: v20.x (NodeSource repo)
- npm: 10.x
- pm2/systemd: for Node apps
- Apps run from /srv/groups/teamXX/node/

MySQL Database

- MySQL (MariaDB variant): 10.11.x (Ubuntu 24.04 repo)
- Each team has its own DB (e.g., team01db)
- Users restricted per team with strong passwords

PostgreSQL Database (with vector support)

- PostgreSQL: 16.9 (Ubuntu 16.9-0ubuntu0.24.04.1)
- Each team has its own DB (e.g., team01db)
- Users restricted per team with strong passwords

Services per Team

- gunicorn-teamXX.service → Flask /pyapp + /bot
- node-teamXX.service → Node.js /nodeapp
- php-fpm → Apache /index.php