

StrikeXi is a containerised web application for running Cyber Maturity Assessments against the NCSC Cyber Assessment Framework (CAF). It scores responses, generates an actionable remediation roadmap, and exports a professional PDF report.

1. Getting Started (Administrator)

Prerequisites: Docker and Docker Compose installed on the host.

```
cd strikexi
cp .env.example .env          # edit secrets before first run
docker compose up -d --build
```

The first launch initialises the PostgreSQL database, applies the schema and seed data, and creates the default administrator account.

- Frontend (web UI): **http://localhost:8080**
- Backend API docs (Swagger): **http://localhost:8000/docs**
- Default login: username **admin** / password as set in **.env** (ADMIN_PASSWORD).

Important: change SECRET_KEY, POSTGRES_PASSWORD and ADMIN_PASSWORD in **.env** before production use.

2. Logging In

- Open the web UI and enter your username and password.
- Sessions are secured with a signed JWT token that expires automatically.
- Every login - successful or failed - is recorded in the Audit Log.

3. The Dashboard

After login you land on the Dashboard, which lists all your assessments with their organisation, date, score and status. From here you can:

- **Resume** an in-progress assessment.
- **Review** a completed assessment and its results/roadmap.
- Start a new assessment via the sidebar.

4. Running an Assessment

- Click **New Assessment**, enter the organisation name and assessment date, then **Create & begin**.
- Questions cover all four CAF Objectives (A-D) and all fourteen Principles (A1-A4, B1-B6, C1-C2, D1-D2), grouped by objective and principle.
- For each question, select an answer (Achieved / Partially achieved / Not achieved). Each option carries a weighted score.
- Use **Save & pause** at any time - your answers are stored and you can resume later.
- Click **Complete & score** to calculate maturity and generate the roadmap.

5. Understanding Your Scores

Scoring is weighted: each question's contribution is its option score multiplied by its weight. Principle scores roll up into Objective scores, and the four objectives average into an overall maturity score out of 100.

Score	Maturity band
80-100	Strong
60-79	Established
40-59	Developing
0-39	Initial

6. The Maturity Roadmap

When a principle scores below its maturity threshold, StrikeXi automatically queues the mapped remediation action. Each roadmap step references the specific CAF Objective and Principle it addresses and provides detailed mitigation guidance. Steps are ordered by priority so you know exactly what to tackle first to raise maturity.

7. Exporting the PDF Report

- From the results screen, click **Export PDF report**.
- Confirm or edit the **Organisation Assessed** and **Date of Assessment**.
- Click **Generate PDF** - the report downloads automatically.
- The report includes the overall score, per-objective scores, a breakdown, and the full roadmap.

8. Audit Log

The Audit Log (sidebar) records key actions with timestamps and source IP: logins, failed logins, assessments started/completed, and PDF exports - supporting accountability and compliance evidence.

9. Future Integrations (ITSM)

Roadmap items are structured so they can be pushed to ITSM tools such as Jira or ServiceNow via the backend's pluggable adapter layer. A stub endpoint (POST /api/assessments/{id}/push-itsm) is included for future use.

10. Maintenance

- Data persists in Docker named volumes (strikesxi_pgdata, strikesxi_reports) and survives reboots.
- Stop: `docker compose down` (add -v only if you intend to wipe data).
- View logs: `docker compose logs -f backend`.