Patch 5.1 – Version Management & Output Connectors

Scope

- Expose /v1/version (service, version, git_sha, image_tag).
- Add /v1/updates/check to compare current tag vs latest Docker Hub tag.
- Implement Stage 5.1: /v1/outputs/splunk and /v1/outputs/elastic config endpoints.
- Add lightweight GUI badge for version + update availability.
- Dev-safe update mechanism with admin token authentication.

API Endpoints

1 **GET** /v1/version → {service, version, git_sha, image, image_tag}

2 **GET** /v1/updates/check → {current, latest, update_available}

3 **POST|PUT** /v1/outputs/splunk → save Splunk HEC config

4 **GET** /v1/outputs/splunk → read config

5 **POST|PUT** /v1/outputs/elastic → save Elastic config

6 **GET** /v1/outputs/elastic → read config

7 **POST** /v1/admin/update → dev-only image pull (requires X-Admin-Token)

Quick cURL Tests

```
# Version
curl -s http://localhost:8080/v1/version

# Check for updates
curl -s http://localhost:8080/v1/updates/check

# Configure Splunk
curl -s -X POST http://localhost:8080/v1/outputs/splunk \
-H "Authorization: Bearer TEST_KEY" \
-H 'Content-Type: application/json' \
-d '{"hec_url":"https://splunk.example:8088/services/collector","token":"***","index":"te
lemetry","sourcetype":"telemetry:event"}'

# Configure Elastic
curl -s -X POST http://localhost:8080/v1/outputs/elastic \
-H "Authorization: Bearer TEST_KEY" \
-H 'Content-Type: application/json' \
-d '{"urls":["https://es1:9200"],"index_prefix":"telemetry-","bulk_size":1000}'

# Dev-only: pull latest image
curl -s -X POST http://localhost:8080/v1/admin/update \
-H "X-Admin-Token: dev-only-token"
```

Docker Build & Push (tag v0.5.1)

```
export APP_VERSION=v0.5.1
export GIT_SHA=$(git rev-parse --short HEAD)
docker build -t shvin/telemetry-api:$APP_VERSION \
--build-arg APP_VERSION=$APP_VERSION \
--build-arg GIT_SHA=$GIT_SHA .
docker push shvin/telemetry-api:$APP_VERSION

# Run locally
docker run --rm -p 8080:8080 \
-e API_KEYS=TEST_KEY \
-e APP_VERSION=$APP_VERSION \
-e GIT_SHA=$GIT_SHA \
-e ADMIN_TOKEN=dev-only-token \
shvin/telemetry-api:$APP_VERSION
```

Production Deployment

```
# docker-compose.yml
services:
telemetry-api:
image: shvin/telemetry-api:latest
environment:
- API_KEYS=TEST_KEY
- APP_VERSION=0.5.1
- UPDATE_CHECK_ENABLED=true
ports:
- "8080:8080"

watchtower:
image: containrrr/watchtower
restart: unless-stopped
volumes:
- /var/run/docker.sock:/var/run/docker.sock
command: --cleanup --interval 60 telemetry-api
```

Notes

- Public health check /v1/health remains unauthenticated.

- Version badge shows green (up-to-date) or amber (update available).

- Update checks occur every 60 seconds automatically.

- Watchtower provides production auto-updates while GUI shows availability.

- Admin update endpoint is dev-only and requires X-Admin-Token header.

- Output connector configs are stored in-memory (MVP implementation).