

Protect PDF - Production Test Report

PDF Toolbox | Live production acceptance | September 29, 2026 UTC

Test identity

Production commit: 166d77465aa72b1b7226532098b0bd35834ae95f

Positive production job: 716

Negative production jobs: 717 malformed, 718 already encrypted, 719 signature-field control.

Runtime: PyMuPDF 1.26.7 through the live upload, API, BullMQ worker, status, and download path.

Authoritative artifacts

Source SHA-256: b3cb587046d8a5045773b2428407ad0ff1aac0fbc426ac32fc4bb813f1890fa0

Protected output SHA-256: 3e59c9133cc9b7c56e490410f65e8a4735b1b4d989aa418e7a22d00b4c729d84

Published synthetic-output password: GateA-Protect-2026!

Positive result

- Output required a password before access.
- Wrong-password authentication returned 0.
- Requested password authenticated successfully.
- Encryption reported Standard V5 R6 256-bit AES.
- Page count remained 5.
- Page rotations remained 0, 90, 180, 270, and 0 degrees.
- Selected metadata remained.
- Embedded attachment remained.
- Text form field and value remained.
- URI link remained.
- Text annotation remained.
- Image-only fifth page remained image-only.

These observations describe one controlled synthetic production file. They are not a universal preservation, legal, regulatory, archival, accessibility, or confidentiality certification.

Negative controls and operational observations

API validation

- 3-character password: HTTP 400.
- 41-character password: HTTP 400.
- Invalid file path control: HTTP 400.
- Invalid session path control: HTTP 400.

Worker refusal controls

- Malformed PDF job 717 failed; no partial protected output remained.
- Already-encrypted PDF job 718 failed; no partial protected output remained.
- Signature-field PDF job 719 failed; no partial protected output remained.

Password handling observation

The password necessarily reached the server so the task could run. After the worker claimed each tested job, persisted BullMQ data showed passwordRedacted=true and no plaintext password field. The Python process received the password through standard input instead of a command-line argument. This is not a zero-knowledge design.

Runtime stability

- Web restart count remained 3 during live acceptance.
- Worker restart count remained 2 during live acceptance.
- Janitor restart count remained 0 during live acceptance.
- Redis health check returned PONG.
- Production repository dirty-tree fingerprint remained unchanged.

File retention note

Uploaded and generated files become eligible for scheduled cleanup after 60 minutes. Cleanup runs on a five-minute interval, so deletion is not guaranteed at the exact 60-minute mark.