PSScript Training Guide

This guide is a full training and enablement program for PSScript Manager. It includes walkthroughs, screenshots, labs, sample actions, and operational checklists.

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Program overview

PSScript Manager is a full workflow platform for PowerShell scripts. This training builds capability across authoring, analysis, search, and operations.

Expected outcomes: - Scripts are organized, tagged, and versioned - AI analysis is used to identify and remediate risks - Similar scripts can be found via vector search - Analytics and audit trails are used for governance
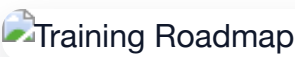
System overview

Architecture Diagram

Analysis Pipeline

Training roadmap

Training Roadmap

Environment setup

Recommended setup uses mock mode so training can run without external dependencies.

```
./start-all-mock.sh
```

Default ports: - Frontend: http://localhost:3002 - Backend API: http://localhost:4000/api - AI service: http://localhost:8000

Role-based paths

Role	Focus	Primary modules
Script author	Upload, analyze, improve	01, 02, 03
Security reviewer	Risk review, approvals	03, 04, 05
Platform admin	Operations, reliability	01, 05

Module breakdown

Module	Objectives	Key screen
Module 01: Foundations	Navigate UI, find docs, understand services	Dashboard
Module 02: Script Lifecycle	Upload, tag, version scripts	Upload
Module 03: AI Analysis	Read scores and recommendations	Analysis
Module 04: Search	Use keyword + vector search	Scripts

Module	Objectives	Key screen
Module 05: Operations	Review analytics and logs	Analytics

Hands-on labs

Lab 01: Sign in and orient

1. Open the login screen and use Default Login.
2. Review the dashboard stats cards and recent scripts.
3. Locate Scripts, Documentation, and Analytics in the sidebar.

Login Screen

Dashboard

Lab 02: Upload and analyze a script

1. Navigate to Upload.
2. Upload `test-script.ps1` and add tags.
3. Preview analysis, then submit.
4. Open the script detail view and review scores.

Script Upload

Script Detail

Script Analysis

Lab 03: Documentation and AI chat

1. Open Documentation and search for a cmdlet.
2. Capture an example in your notes.
3. Open AI Chat and ask for safe usage patterns.

Documentation Explorer

AI Chat

Lab 04: Analytics and governance

1. Open Analytics and review usage metrics.
2. Identify top activity areas.
3. Document a governance checklist for releases.

Analytics

Sample Usage Metrics

Lab 05: Settings and training resources

1. Open Settings and review API usage and notifications.
2. Locate the Documentation and Training section.
3. Confirm the Training Suite link opens the guide.

Settings

Sample actions

Example: Upload via API

```
curl -X POST http://localhost:4000/api/scripts \
  -H "Authorization: Bearer <token>" \
  -F "file=@test-script.ps1" \
  -F "title=Reset-UserPassword" \
  -F "description=Reset AD user password" \
  -F "tags=security,active-directory"
```

Example: Run analysis

```
curl -X POST http://localhost:8000/analyze \
  -H "Content-Type: application/json" \
  -d '{"content": "Get-ADUser -Filter *", "type": "security"}'
```

Example: Vector search

```
curl -X POST http://localhost:4000/api/scripts/search \
  -H "Content-Type: application/json" \
  -d '{"query": "active directory onboarding", "useVector": true}
```

Operational readiness

Governance checklist

- Scripts are tagged, categorized, and have an owner
- Security score is reviewed and exceptions are documented
- Duplicates are prevented by hash check
- Analysis results are logged and stored
- Analytics reflect script usage and review cadence

Operational checks

Area	Check	Target
Backend	Health endpoint	200 OK
Database	pgvector enabled	true
AI service	Analyze endpoint	200 OK
Cache	Redis reachable	Optional
UI	Dashboard load	< 3 seconds

For deeper triage and support patterns, see `../SUPPORT.md` .

Appendix: Troubleshooting

Issue	Likely cause	Fix
Upload fails	Backend not running	Start backend on port 4000
Analysis empty	AI service down	Start AI service or mock mode

Issue	Likely cause	Fix
Search returns none	Embeddings missing	Run embedding generation
Docs empty	Crawl not completed	Run documentation crawl

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