AI PQC Audit

Comprehensive How To Guide

Complete User Manual for Post-Quantum Cryptography Auditing Platform

Generated: November 06, 2025

Version 1.0

Platform Features:

- 13 Comprehensive Audit Areas
- Multi-Al Analysis Engine
- CISO-Ready Reporting
- Real-Time Threat Monitoring
- Enterprise Security Controls
- Automated NIST Updates

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1. Getting Started

Welcome to AI PQC Audit

Al PQC Audit is a comprehensive platform for assessing your organization's readiness for post-quantum cryptography threats. This guide will walk you through every feature and capability of the platform.

What This Platform Does

- 13 Audit Areas: Domain TLS, Documents, Networks, Devices, Code, Software, IoT, IAM, PKI, Cloud, Vendor, Email, Mobile, and Blockchain
- Multi-Al Analysis: Uses OpenAl GPT-4o, Anthropic Claude, Google Gemini, and xAl Grok for consensus analysis
- CISO-Ready Reports: Executive summaries with individual asset analysis and prioritized action plans
- Latest Standards: Automatically updated with NIST and industry developments

Quick Start Process

- 1. Create an account and log in
- 2. Start a new audit session
- 3. Upload files or enter domains for scanning
- 4. Review Al-powered analysis results
- 5. Download comprehensive reports

Tip: Have your network inventory, device lists, and domain names ready before starting your first audit.

2. Account Setup

Creating Your Account

- 1. Click "Start Free Trial" on the homepage
- 2. Enter your email address and create a secure password
- 3. Verify your email address (check spam folder if needed)
- 4. Complete your profile with organization details

Security Settings

After logging in, enhance your account security:

- 1. Go to your user dropdown \rightarrow Security Settings
- 2. Set up Multi-Factor Authentication (MFA)
- 3. Choose between authenticator app or SMS verification
- 4. Save backup codes in a secure location

Organization Management

For team accounts:

- Create or join an organization
- Invite team members with role-based access
- Configure organization settings and preferences
- Set up shared audit templates

3. Starting Audits

Creating a New Audit Session

- 1. Click "Start New Audit" from the homepage or dashboard
- 2. Enter a descriptive audit name (e.g., "Q4 2025 Security Assessment")
- 3. Select audit type: Comprehensive (recommended for full analysis)
- 4. Click "Start Audit" to create your session

Planning Your Audit

Before starting, gather:

- Domain Lists: All organizational domains and subdomains
- Network Inventory: CSV files with network configurations
- **Device Lists:** Hardware inventory with firmware versions
- Code Archives: Source code ZIP files for analysis
- Policy Documents: Cryptographic policies and procedures

4. Scan Types

The platform supports 13 comprehensive audit areas:

| Scan Type | Purpose | Input Format |
|----------------------|--------------------------------|-----------------|
| Domain TLS/SSL | Analyze TLS configurations | Domain names |
| Document Analysis | Review policies and strategies | PDF, DOCX, TXT |
| Network Assessment | Evaluate infrastructure | CSV, JSON, YAML |
| Device Inventory | Assess hardware readiness | CSV files |
| Code Analysis | Scan source code | ZIP archives |
| Software Inventory | Analyze packages | JSON, TXT |
| IoT/Edge Devices | Evaluate IoT security | CSV files |
| IAM Systems | Review access management | YAML, JSON |
| PKI Certificates | Analyze certificates | PEM, P7B, CRT |
| Cloud Infrastructure | Assess cloud security | YAML, JSON |
| Vendor Assessment | Evaluate third parties | JSON files |
| Email Systems | Analyze email security | JSON files |
| Mobile Applications | Review mobile security | JSON files |
| Blockchain | Assess blockchain crypto | JSON files |

5. File Preparation

Supported File Formats

| Scan Type | File Formats | Size Limit | Notes |
|-----------|-----------------|------------|-------------------------|
| Documents | PDF, DOCX, TXT | 10MB | Policies, procedures |
| Network | CSV, JSON, YAML | 5MB | Network inventories |
| Devices | CSV | 5MB | Hardware specifications |
| Code | ZIP | 25MB | Source code archives |
| Software | JSON, TXT | 5MB | Package lists |
| PKI | PEM, P7B, CRT | 1MB | Certificate files |
| Cloud/IAM | YAML, JSON | 5MB | Infrastructure configs |
| Others | JSON | 5MB | Various configurations |

Data Preparation Tips

- Accuracy: Ensure all data is current and accurate
- Completeness: Include all relevant systems and components
- Privacy: Remove sensitive personal information before upload
- Format: Follow template structures exactly for best results
- Organization: Group related systems logically

6. Running Scans

Step-by-Step Scanning Process

- 1. Access Scan Wizard: From your audit session, click "Scan Files & Generate Reports"
- 2. Select Scan Type: Choose from 13 available audit areas
- 3. Upload Files or Enter Data: Domain names, file uploads, or direct text input
- 4. Initiate Scan: Click "Scan [Type] & Generate Report"
- 5. Wait for Analysis: Al engines process your data (30-60 seconds)
- 6. Review Results: Automatic redirect to results page

Multi-Al Processing

Each scan uses multiple AI engines:

- OpenAl GPT-4o: Advanced reasoning and analysis
- Anthropic Claude: Safety-focused vulnerability assessment
- Google Gemini: Multimodal analysis and insights
- xAl Grok: Real-time threat intelligence

7. Understanding Results

Risk Scoring System

• Critical (8.0-10.0): Immediate action required • Moderate (5.0-7.9): Address within 30 days

• Low Risk (3.0-4.9): Monitor and plan

• Compliant (0.0-2.9): Quantum-ready

Individual Asset Analysis

For each asset, results include:

• Asset Name: Specific identifier

• Current State: Present configuration/status

• Vulnerability: Specific security weakness

• Action Required: Step-by-step remediation

• Business Impact: Operational consequences

• Timeline: Recommended implementation schedule

• Effort Level: Resource requirements (Low/Medium/High)

8. Reports & Exports

Report Generation

The platform provides multiple report formats:

- Text Reports (Copy Function): Complete text version for sharing
- PDF Reports: Professional formatted documents for presentations
- Executive Summary: High-level overview with key findings
- Technical Analysis: Detailed vulnerability descriptions
- Methodology Section: Al analysis details and criteria

Advanced Analytics

- Analytics Dashboard: Executive charts and trends
- Q-Day Monitor: Quantum threat timeline analysis
- Multi-Al Engine: Consensus analysis details
- Compliance Dashboard: Standards alignment tracking

9. Advanced Features

Q-Day Timeline Monitoring

- Q-Day Analysis: X + Y > Z assessment
- Threat Timeline: Real-time quantum progress tracking
- Migration Planning: Automated PQ migration timelines
- Risk Forecasting: Predictive quantum threat analysis

Organization Management

- Role-Based Access: Admin, Manager, Analyst, Viewer roles
- Team Collaboration: Shared audit sessions and templates
- Centralized Reporting: Organization-wide security posture
- Policy Management: Custom organizational policies

Security Monitoring

- Security Monitor: Real-time threat detection
- Audit Logging: Complete activity tracking
- IP Monitoring: Geographic and behavioral analysis
- Alert System: Email and SMS notifications

10. Troubleshooting

Common Issues and Solutions

| Error Code | Description | Solution |
|-------------|---------------------------|----------------------------------|
| AUTH_001 | Authentication failure | Log out and log back in |
| UPLOAD_002 | File format not supported | Check supported formats |
| SCAN_003 | Al engine timeout | Retry scan, reduce file size |
| REPORT_004 | PDF generation failure | Use text report, contact support |
| SESSION_005 | Invalid audit session | Start new audit session |

Getting Additional Help

- $\bullet \ \textbf{Submit Ticket:} \ \text{Support} \to \textbf{Submit Ticket with detailed description}$
- Live Chat: Available during business hours
- Email Support: Include session ID and error details
- FAQ: Check FAQ section for additional answers
- Video Tutorials: Step-by-step visual guides

Support Hours: Monday-Friday 9 AM - 6 PM EST. Emergency support available for enterprise customers.