

LogZilla for Healthcare

HIPAA-Ready Log Intelligence for Patient Data Protection

HIPAA

Compliance Ready

Minutes

Audit Report Generation

Real-time

PHI Access Monitoring

AI

Copilot Included

The Healthcare Challenge

Patient Data Protection Complexity:

- HIPAA compliance burden:** Audit trails required everywhere
- PHI access tracking:** Who accessed what, when
- Medical device security:** IoMT blind spots
- Ransomware targeting:** Healthcare is #1 target
- Multi-system complexity:** EHR, PACS, lab, pharmacy

The AI Advantage

Healthcare-Aware Intelligence:

- PHI access anomalies:** Detect unauthorized access
- Audit-ready reports:** HIPAA evidence in minutes
- Medical device monitoring:** IoMT visibility
- Breach detection:** Real-time alerting
- Compliance dashboards:** Continuous monitoring

HIPAA Security Rule Coverage

Requirement	LogZilla Capability
\$164.312(b) - Audit Controls	Full Coverage
\$164.312(c) - Integrity	Immutable Logs
\$164.312(d) - Authentication	Access Tracking
\$164.312(e) - Transmission	TLS Encryption
\$164.308(a)(1) - Risk Analysis	AI Analytics
\$164.308(a)(5) - Security Awareness	Anomaly Detection

Breach Notification Support: LogZilla provides the audit trail evidence required for breach investigation and HHS reporting under the HIPAA Breach Notification Rule.

AI-Powered PHI Access Monitoring

Compliance Officer prompt: "Show all PHI access events for patient John Doe (MRN 12345) in the last 30 days with user justification analysis."

```
PHI ACCESS AUDIT: PATIENT MRN 12345
Period: Nov 1-30, 2024 | Total Access Events: 47

AUTHORIZED ACCESS (45 events):
  Dr. Smith (Attending)    - 12 events - Treatment
  RN Johnson (Floor Nurse) - 18 events - Care delivery
  Lab Tech Williams       - 8 events  - Lab results
  Radiology               - 5 events  - Imaging
  Pharmacy                - 2 events  - Medication

▲ ANOMALOUS ACCESS (2 events):
User: jdoe_admin (IT Support)
Time: Nov 15, 14:23 and Nov 15, 14:31
System: Epic EHR
Justification: NONE PROVIDED

RECOMMENDATION:
Escalate to Privacy Officer for review
User has no treatment relationship with patient
```

AI Use Cases for Healthcare

Use Case	Traditional	With AI
PHI access audit	2-4 hours	2 min
HIPAA compliance report	1-2 weeks	30 min
Breach investigation	Days	Minutes
Medical device inventory	Manual	Real-time
Security incident response	Hours	Seconds

Healthcare Systems Supported

- EHR:** Epic, Cerner, MEDITECH, Allscripts
- Imaging:** PACS, VNA, DICOM systems
- Lab:** LIS, blood bank, pathology
- Medical Devices:** Infusion pumps, monitors, IoMT

Medical Device Security Monitoring

Security Analyst prompt: "Analyze all medical device network activity for anomalies in the last 24 hours."

MEDICAL DEVICE SECURITY ANALYSIS
Period: Last 24 Hours | Devices: 2,847 | Events: 4.2M

DEVICE INVENTORY BY TYPE:

Infusion Pumps	847	99.2% healthy
Patient Monitors	623	100% healthy
Imaging Systems	124	98.4% healthy
Ventilators	89	100% healthy
Lab Analyzers	156	99.4% healthy

⚠ SECURITY ALERTS:

- Infusion Pump BD-4521 (ICU-3)
 - Unexpected outbound connection attempt
 - Destination: 185.xxx.xxx.xxx (Russia)
 - Status: BLOCKED by firewall
 - Action: Isolate and investigate
- PACS Server PACS-02
 - Failed login attempts: 47 in 1 hour
 - Source: Internal IP 10.50.12.xxx
 - Pattern: Credential stuffing detected

Ransomware Detection

RANSOMWARE EARLY WARNING

INDICATORS DETECTED:

- ✓ Unusual file encryption activity
- ✓ Shadow copy deletion attempts
- ✓ Lateral movement patterns
- ✓ C2 beacon communication

AFFECTED SYSTEMS: 3 (contained)

- WS-BILLING-04
- WS-BILLING-07
- FS-DEPT-BILLING

AUTOMATED RESPONSE:

- Network isolation triggered
- Security team alerted
- Backup verification initiated
- Incident ticket created

Compliance Frameworks

Framework	Coverage
HIPAA Security Rule	Supports
HIPAA Privacy Rule	Audit Support
HITECH Act	Breach Detection
Joint Commission	Evidence
State Privacy Laws	Configurable

Deployment Options

On-Premises

- Your data center
- Full data sovereignty
- Air-gapped option
- BAA not required

Private Cloud

- Customer-managed
- Dedicated instance
- Full data control
- Scalable architecture

Hybrid

- On-prem collection
- Cloud analytics
- PHI stays local
- Flexible architecture

Why Healthcare Organizations Choose LogZilla

Metric	Improvement
HIPAA audit prep time	90% faster
PHI breach detection	Real-time
Medical device visibility	100% coverage
Compliance evidence	Automated

Healthcare-Specific Benefits:

- Patient safety:** Medical device monitoring
- Compliance:** Audit-ready evidence always
- Security:** Ransomware early warning
- Efficiency:** AI-powered investigations