MEDSTACK®

Technical Overview

The *go-to compliance solution* for digital health

MedStack makes it easy for digital health application innovators to build, launch and scale compliant cloud applications that automatically meet the data privacy and security requirements of today's healthcare enterprise systems.

Built specifically for the needs of the healthcare industry, we are the only solution that combines the power of a developer-friendly platform with built-in security and provable compliance, so you can confidently provide the assurance needed to sell your application.

Meet Compliance Requirements

• Compliance-as-code
• Pre-written standards-aligned security policy documentation mapped to inheritable controls
• Industry-validated audit questionnaire responses
• Certification evidence generator

Integrate Features for Automatic Security

• SOC 2 Type 2 and Cyber Essentials Plus certified platform
• Disaster Recovery Plan
• Encryption at Rest
• Ability to Deploy Docker Applications and Services on Compliant Architecture
• Downloadable Audit Log
• Enforced 2FA
• Automated TLS certificate management

Build Environments with Ease

• Fully-aligned to Docker standards and methodologies
• Support for open source stack Docker containers (and .NET core in Linux containers), MySQL and PostgreSQL fully-managed databases, file storage containers
• One-click reboot and resize clusters
• Centralized Admin / Technical User access management
• Infrastructure status Alerts Manager
• Container Registry Integration
• Ability to Build Cloud Environments and Resources
• Service and Resources Maintenance in Your Environments
• Pre-configured Load Balancer
• Built-in Load Balancer (Internet connectivity), Memory, CPU, Disk, Node Availability alerts
• Allow-List IPs
• Integratable webhooks
• CI/CD Open API-based pipeline
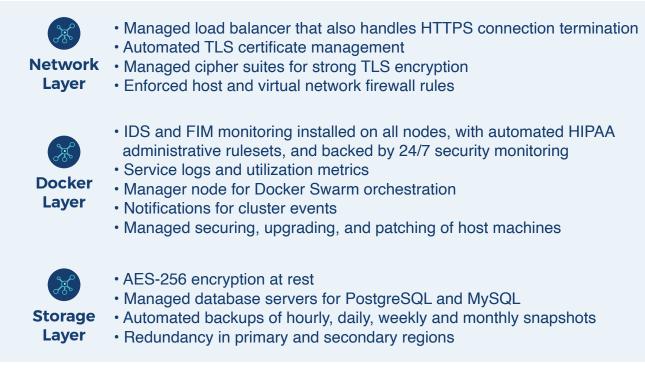• Managed Docker secret renewals

Proveability at the Core

MedStack's inheritable policy framework is based on ISO/IEC 27002:2013. Our controls are mapped to federal regulations (HIPAA, PIPEDA), and various industry standard control frameworks (SOC 2 Type 2, NIST, CHI, etc) for auditing, security risk management, data privacy, and data protection. MedStack's inheritable policies are pre-written, hard-coded, and maintained in real-time so you can easily generate evidence and prove policy adherence of your environments.

Our security is built in a prescriptive manner, which allows us to leverage pre-built responses to then incorporate natural language processing (NLP) to match questions to answers to help you answer security questionnaires. Our AI-powered proprietary answer library can answer up to 90% of compliance-related questions for audits, questionnaires and certifications on your behalf. The answers we provide are pre-written, accurate, and already accepted by the top players in the healthcare industry.

Privacy Compliance and Security by Design

Running your Docker application on a MedStack-provisioned environment ensures cloud compliance from the virtual network layer through the virtual machines and storage layers that power your application.

Network Layer
- Managed load balancer that also handles HTTPS connection termination
- Automated TLS certificate management
- Managed cipher suites for strong TLS encryption
- Enforced host and virtual network firewall rules

Docker Layer
- IDS and FIM monitoring installed on all nodes, with automated HIPAA administrative rulesets, and backed by 24/7 security monitoring
- Service logs and utilization metrics
- Manager node for Docker Swarm orchestration
- Notifications for cluster events
- Managed securing, upgrading, and patching of host machines

Storage Layer
- AES-256 encryption at rest
- Managed database servers for PostgreSQL and MySQL
- Automated backups of hourly, daily, weekly and monthly snapshots
- Redundancy in primary and secondary regions

Award-Winning Security

TechCrunch Disrupt Cyber
Security Pick
MedTech Breakthrough Award
for Patient Data Privacy

Recommended By:

Greycroft
OMERS
a16Z

Features

- Deploy secure infrastructure with just one click
- Deploy containerized applications directly into MedStack's managed Docker environments
- Use modern Docker language to deploy any containerized application
- Seamlessly create and manage application-layer services with the MedStack Control API
- Rapidly iterate and deploy within your existing CI/CD pipeline
- Have access to file storage, databases, and flexible databases
- Design your own architecture without constraints, including caching, distribution and redundancies

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- Support portal that allows you to manage your tickets, submit security questionnaires, easily view billing and usage history, and more
- One-click reboot and resize
- Self-service maintenance
- LB internet metrics
- Subscription alerts
- Cloud provider notices
- Allowed IPs
- Webhooks
- Terminal commands
- Memory and CPU graphs

Spend more time *focusing on application development* and less time establishing DevOps practices to uphold compliance commitments.

To learn more, contact us at
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