Aptible Deploy Security Division of Responsibilities

Aptible Deploy® is an ISO 27001 certified, AWS-based container orchestration platform for deploying highly available, secure apps and databases into isolated cloud environments. Software teams use Aptible Deploy® to automate DevOps and security engineering best practices and requirements for HIPAA, ISO 27001, SOC 2, and other security frameworks.

Categories

Security

DevOps: Convenience

DevOps: Reliability

Flexible & Scalable

Audit-Ready

CUSTOMER

Application-level Controls

You are responsible for implementing security controls in your app business logic, such as authentication, app-level access controls, and audit logging.

Web App Vulnerability Scanning

You are responsible for detecting and mitigating vulnerabilities in your Aptible Deploy apps.

Web App Dependency Management

You are responsible for managing your apps' dependencies (e.g. package.json, Gemfiles, etc.) and patching vulnerabilities. You may use Aptible Deploy App Security Scans to detect potential issues with system packages installed configuration. in your Docker images.

Protection of Credentials, Tokens, Secrets

You are responsible for managing your passwords, API keys, and other secrets. You may use Aptible Deploy environment variables to store sensitive information and

Aptible

ISO 27001 Compliance

Use Aptible's ISO 27001 certification to show your customers that your cloud computing stack meets the international gold standard for security.

HIPAA Compliance

Run healthcare workloads that process, store, and transmit HIPAA protected health information with Aptible. BAAs are available for Aptible Deploy dedicated stacks and Gridiron.

2-Factor Authentication

Use both token-based 2FA and FIDO U2F security keys to protect your Aptible accounts.

Fault-Tolerant Container Distribution

containers across separate AWS Availability

Easily view container memory and CPU load,

database IOPS, and disk usage in the Aptible

App Docker Image Security Scans

Identify vulnerable system packages in your

Easily scale your app and database containers,

both horizontally (more containers per service)

and vertically (bigger containers). Database

disks can be resized from the Aptible

dashboard or with the CLI with minimal

Docker images. Optionally integrate with

Appeanary to be notified when new

vulnerabilities are discovered.

Aptible Deploy automatically deploys

horizontally-scaled app and database

Zones, to ensure high availability.

Container Metrics

dashboard.

Role-based Access Controls

Securely control access to your Aptible service.

SRE Team Monitoring and Response

infrastructure 24/7 and responds to host and

The Aptible SRE Team monitors your

Automatic Host Security Updates

level issues on your behalf.

SSH Session Audit Logs

analysis, and compliance.

The Aptible Security Team patches kernel

vulnerabilities and other host- and network-

Capture output from ephemeral `aptible ssh

sessions and route to log drains for auditing,

Managed Host Intrusion Detection

instances in your stacks for potential

Aptible Deploy monitors the underlying EC2

intrusions, such as unauthorized SSH access,

responds on your behalf 24/7 to investigate

rootkits, file integrity issues, and privilege

escalation. The Aptible Security Team

and resolve issues as they arise.

network incidents on your behalf.

Enhanced Support

All Aptible accounts include Businesslevel support. Support upgrade options include private Slack channels with the Aptible team and 15-minute critical response times.

Aptible API Audit Logs

Weekly Activity Reports aggregate Aptible API operations from each of your environments for review.



Container Recovery

Endpoint IP Filtering

Aptible Deploy containers that exit unexpectedly are restarted in pristine condition, ensuring uptime even if your app crashes.

Container Log Drains

Deploy workloads.

Memory Management

Restrict access to Aptible Deploy apps and databases to a set of whitelisted IP addresses or networks, and block other incoming incoming traffic.

VPC Peering

Securely connect your Aptible Deploy dedicated stack to other AWS VPCs in the same region.

Network and Host Vulnerability Scanning

Aptible Deploy scans both the Internet-facing

network and private network of a master

reference stack each month. The Aptible

without customer intervention. You may

hosts as needed for your own security

assessments and audits.

Security Team remediates adverse findings

request a scan of your dedicated stack and its

or cluster (MongoDB) databases in highavailability setups.

Route Aptible Deploy container logs to logging

destinations for review, alerting, and archiving. Stream logs to your console in real time with the Aptible Toolbelt.

Aptible Deploy containers that exceed their

memory allocation are allowed to gracefully

exit before being restarted. This helps avoid

contention on the underlying EC2 instances

and increases overall stability of your Aptible

Database Replication

Easily replicate (PostgreSQL, MySQL, Redis)

DDoS Avoidance

Aptible Deploy VPC-based approach means that most stack components are not accessible from the Internet, and cannot be targeted directly by a DDoS attack. Aptible Deploy SSL/ TLS endpoints include an AWS Elastic Load Balancer, which only supports valid TCP requests, meaning DDoS attacks such as UDP and SYN floods will not reach your app layer.

Database Disk Encryption at Rest

Database volumes are encrypted at rest using AES-256 with Aptible-managed keys.

Container Scaling

Easily spin up auditable ephemeral app

SSH Access

Database Tunneling

Intermediate Backups

Aptible Deploy automatically enables data integrity controls for database types that support it (e.g. PostgreSQL write-ahead logs; MySQL binary logging; Redis RDB backups; MongoDB journaling, etc).

Managed VPNs

Integrate with partners or connect

stacks using Managed IPsec VPNs.

Direct Deploy from Docker Image

and deploy straight to Aptible Deploy.

Automatic Database Backups

Aptible Deploy takes automatic daily

those backups across geographically

backups of your databases, and distributes

Build your Docker image locally or in a CI

platform, push the image to a Docker registry,

privately to your Aptible Deploy dedicated

Host Hardening

Aptible Deploy host operating systems are hardened to disable unnecessary services and limit surface area for attacks.

Managed TLS Endpoints

Aptible Deploy automatically procures and renews free TLS certificates via Let's Encrypt on your behalf.

Internal Endpoints

Restrict access to apps and databases to other services in the same dedicated stack.

Dockerfile Deploy

Let Aptible Deploy build your container images using a Dockerfile you specify, initiated with push to an Aptible Deploy git endpoint.

Major OSS Database Support

Run Elasticsearch, MongoDB, MySQL, PostgreSQL, RabbitMQ, Redis, or SFTP containers on Aptible Deploy.

End-to-End Encryption in Transit Traffic is encrypted all the way from your

Enclave Service Status Page

endpoints to your app and database containers using strong TLS ciphers.

Access real-time information about the status

of the Aptible services at status.aptible.com.

Web Service Health Checks

Aptible Deploy performs both release and runtime health checks to ensure your web services are performant and responsive.

Safe Deploy Rollbacks

the last known good state.

When encountering a failure during a

deployment operation (e.g. one of your

S3 has an outage, etc.), Aptible Deploy

stack's underlying EC2 instances fails, AWS

automatically restores your architecture to

containers to run management consoles, run ad-hoc jobs, and administer your architecture.

Use the Aptible CLI to securely connect to your Aptible Deploy databases and audit each access.

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release your app.

separate regions.

Dedicated Stacks and Environments

Zero-Downtime Deployments

Aptible Deploy automatically performs

zerodowntime rolling deployments when you

Each Aptible Deploy dedicated Stack runs in its own private VPC, making it easy to provision and manage multiple VPCs to support customers with stringent requirements for isolation and security.

Security Group Firewalls Public-facing EC2 instances use inbound

Security Group rules configured in denyall mode. Only necessary ports are opened, and configuration is checked and enforced on a regular basis.

Maintenance Pages

Configure your apps to serve custom maintenance pages when requests time out, your app is down, or when you scale your app to zero containers.



AWS Shield DDoS Protection

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Aptible Deploy Stacks benefit from AWS Shield Standard, a managed Distributed Denial of Service (DDoS) protection service that defends against most common, frequently occurring network and transport layer DDoS attacks that target your web site or applications.

Spoofing & Sniffing Protection

The AWS hypervisor only delivers traffic to EC2 instances that the traffic is addressed to, preventing sniffing. AWS's host-based firewalls do not permit instances to send traffic with a source IP or MAC address other than their own.

Physical and Environmental Controls

Aptible Deploy runs on AWS, which provides robust, ISO 27001 certified physical and environmental security for data centers.

Hypervisor Security

AWS uses a custom version of the Xen hypervisor that limits guest OS privileges. AWS is responsible for patching and maintenance of the hypervisor.

Port Scanning Protection

AWS monitors for unauthorized port scanning activity and blocks it when detected.