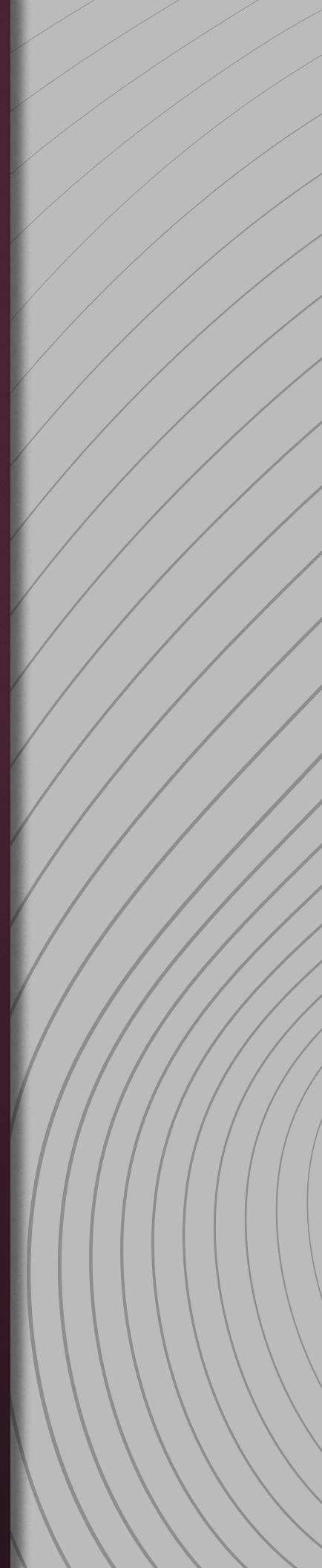




Security Program



We know your data is sensitive. That's why Rippling combines enterprise-grade security features with regular audits to ensure you're always protected.

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Rippling security organization and program

While security is a high priority for all teams, a dedicated Security Team manages the Rippling security program. Our security framework is based on ISO 27001 and NIST 800-53 Information Security Standards, and includes policies covering: data classification, access management, cryptography, change management, secure server configuration, physical security, business continuity, vendor assurance, vulnerability management, security monitoring, and incident response.

Security is represented at the company's highest levels, with our Head of Security meeting with executive management frequently to discuss risks and coordinate company-wide initiatives. Information security policies and standards are approved by management and available to all Rippling employees.

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People security

The people building and maintaining Rippling products are our most precious assets. We've implemented processes to ensure we're bringing in the right people and keeping them up to date on the latest security trends. Here are some of the procedures we have in place:

- **Robust interview process:** Applicants must be interviewed by at least two relevant managers before acceptance. Interviewers rate applicants based on technical aptitude, ethical standards, and cultural fit
- **Onboarding/offboarding process:** We use Rippling software to automate the onboarding and offboarding process and account provisioning
- **Background checks:** All candidates must pass background checks by a specialized third party before being offered a position. For domestic candidates, these include a Social Security number trace, criminal county search (seven year address history), multi-state instant criminal check, National Sex Offenders Public Registry check, Office of Foreign Assets Control (OFAC) search, professional references, and education verification
- **Legal and infosec training**—All new employees attend legal and security training during the onboarding process. In addition, all employees go through information security training once per year. The material is produced in-house and covers information security policies, security best practices, and privacy principles
- **Continuous security education**—The Rippling Security Team provides continuous education on emerging threats, performs phishing awareness campaigns, and communicates with the company regularly

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Product security

Application security

The mission of the Product Security program is to enable product teams to build solutions that are best in class when it comes to security. The following activities help us to achieve this mission:

- Internal security reviews before products are launched
- Continuous internal and external security tests
- Regular threat modeling exercises
- Regular penetration tests performed by reputable third party
- A bug bounty program

Change management

Through a formal change management process, all changes to Rippling software are tracked and approved. Automated controls ensure that changes are reviewed by at least one other team member and pass automated tests before being implemented.

Data encryption

Rippling encrypts data in transit and at rest.

- **Encryption in transit:** All data sent to or from Rippling infrastructure is encrypted in transit using Transport Layer Security (TLS)
- **Encryption at rest:** All user data is encrypted in the database using the AES-256 encryption standard
- **Extra encryption for sensitive data:** We secure sensitive fields using industry best practices to salt and repeatedly hash data before it is stored in the database

Penetration testing

We partner with reputable security companies to perform regular penetration tests on Rippling applications and infrastructure. Our bug bounty program encourages ongoing testing and responsible disclosure of vulnerabilities by the security community.

Application monitoring and protection

We have deployed an array of solutions to monitor and protect our applications, including:

- A Web Application Firewall (WAF) and a Runtime Application Self-Protection (RASP) agent to gain visibility into our application security, identify attacks, and respond quickly to a data breach
- Technologies to monitor exceptions and detect anomalies in our applications
- Collection and storage of application logs to provide an audit trail of our application activity
- A runtime protection system that identifies and blocks Open Web Application Security Project (OWASP) Top 10 and business logic attacks in real time
- Security headers to protect our users from attacks

Account security

Rippling monitors authentication events and alerts the Security Team of possible compromised accounts. Moreover, we protect users against data breaches by monitoring and automatically blocking brute-force attacks.

Customers can add another layer of security to their accounts by enforcing multi-factor authentication to access the Rippling console.

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Cloud and infrastructure security

Our infrastructure serves as a safe platform for Rippling applications, and our cloud security practices adhere to Center for Internet Security (CIS) and Payment Card Industry (PCI) benchmarks. Our cloud security program is driven by four principles:

Asset management

All cloud assets in Rippling's infrastructure are inventoried. Assets must have a defined owner, security classification, and purpose.

Infrastructure management

Where possible, control planes are used to manage services running in production to reduce direct access to host infrastructure and data. Direct access to production resources is restricted to a handful of employees on the Infrastructure Team requiring access. Role-based access control is enforced through Rippling Single Sign-On (SSO). On top of that, strong multi-factor authentication, encryption protocols, and session auditing are enforced for these connections.

Defense-in-depth

Rippling's production environment employs defensive security controls at all layers of its infrastructure, such as:

- **Network segregation:** Through the use of virtual private clouds (VPCs) and security groups, we ensure that only the most minimal network access to Rippling production networks is granted
- **Identity and access management:** Rippling follows a least-privileged approach to manage user and application access to Amazon Web Services (AWS)
- **Audit trail:** Rippling stores an audit trail for all access activity within its production AWS services
- **Intrusion detection systems:** Production servers are equipped with intrusion detection agents configured to detect, alert, and block suspicious activity
- **Security events monitoring:** We use AWS GuardDuty to monitor security events in Rippling AWS accounts

Cloud configuration monitoring

The Rippling Cloud assets are continuously monitored for adherence to security best practices. We leverage automation to identify any deviation from our technical standards and raise issues within minutes of the configuration change.

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Vulnerability management

The Vulnerability Management program establishes how Rippling identifies, responds, and triages vulnerabilities against our platform. The program includes the following initiatives:

- Continuous automated scans on library dependencies used by Rippling's application
- Vulnerability scanning tools and techniques that facilitate interoperability among tools and automate parts of the vulnerability management process
- Remediation service-level agreements (SLAs) defined according to the severity associated with the vulnerabilities discovered

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Security monitoring and incident response

Continuous monitoring

Through the ongoing awareness of vulnerabilities, incidents, and threats, we can quickly respond and mitigate accordingly. Rippling leverages a comprehensive collection of application, infrastructure, and software-as-a-service (SaaS) log sources to identify and triage possible security events.

Incident response program

Rippling manages an incident response program following NIST SP 800-61 standards. The program defines requirements under which security incidents are classified and triaged. The Rippling Security Incident Response Team evaluates the threat of all applicable vulnerabilities and security incidents and establishes remediation and mitigation responses for all events.

The incident response process has precisely defined roles and responsibilities to ensure that any incident is triaged efficiently after detection, and mechanisms for evidence collection that preserve confidentiality.

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Physical security

Data center security

We use AWS data centers for all production systems and customer data. AWS follows industry best practices and complies with a comprehensive list of security standards.

For more information on Amazon Web Services data center physical security, see the [AWS Security Whitepaper](#).

Office security

We have a security program that manages visitors, building entrances, CCTVs, and overall office security. Office access is protected by Keycard/Bluetooth, using third party access-control software. Access lists giving control to specific locations are managed by Rippling software. Logs of successful and unsuccessful entry attempts are maintained for three months.

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Business continuity/disaster recovery

Rippling leverages AWS infrastructure and adherence to configuration best practices to ensure best-in-class resiliency.

Multi-data center resiliency

Hosting our services on AWS gives Rippling the ability to remain resilient globally even if one location goes down. The AWS services we use—including VPCs, load balancers, and S3 storage—span multiple availability zones to ensure resiliency in the event of most failure scenarios, including natural disasters and system failures.

Data backups

Rippling performs continuous backups of critical data using Amazon S3 cloud storage replication capabilities across multiple regions. Our production database clusters are sharded across multiple availability zones, and snapshots of their data are constantly backed up in S3. All backups are encrypted in transit and at rest using strong encryption tactics.

Disaster recovery

We maintain a formal disaster recovery process that depicts the inventory of critical assets and personnel, and a plan to restore the availability of critical services. The disaster recovery plan is tested on a yearly basis.

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Vendor assessment

Third parties are assessed before onboarding to validate that they meet our security and legal requirements. Once a relationship has been established, Rippling reviews security and business continuity concerns periodically. The program considers the type of access and classification of data being accessed (if any), controls necessary to protect data, and regulatory requirements.

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Security compliance

Rippling complies with applicable legal, industry, and regulatory requirements as well as industry best practices. We hold the following certifications:

- SOC 2 Type I (2018)
- SOC 2 Type II (2020)