Konfir

Security Overview

Last updated: October 2025

Security and Architecture

Security	Architecture
Full ISMS, Security Programme including external Testing and Auditing	Distributed services & use of event driven architecture + domain driven design
ICO Registered & GDPR compliant	Data secure storage and resilience in UK
Certified ASP under the UK Digital Identity & Attributes Trust Framework	Secure by design: Security Groups, CloudTrail, CloudWatch, Backups, AWS WAF, AWS Shield
Data encrypted at rest and in transit	Multi-tenancy data segregation

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As an Attribute Service Provider certified under the UK DIATF, Konfir is committed to upholding the highest standards of information security and technology as set forth in this framework. Our certification demonstrates our expertise in employment data and our ability to provide secure and reliable services to our clients.

As the only certified provider of employment data under the UK DIATF, we take our role very seriously and are proud to be a trusted provider of employment verification services. We understand the importance of maintaining the security and privacy of sensitive data, and our certification under the UK DIATF is a testament to our commitment to meeting the stringent security requirements set forth in this framework.

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Konfir holds the ISO 27001 certification, an internationally recognised standard that denotes a robust approach to managing information security. This certification establishes our commitment to the protection of critical data including financial information, intellectual property, and personal data of employees, clients, and users.

The ISO 27001 certification is more than just a credential; it represents the extensive work of our team in upholding top-tier data security standards. Our compliance with this comprehensive set of standards for data security, confidentiality, legal compliance, and operational reliability has been independently verified.

Recognising the dynamic nature of information security, we remain dedicated to continuous improvements in our Information Security Management System (ISMS), ensuring adherence to the latest security trends and best practices.

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Application Architecture

- Use of Domain Driven Design
- Use of Event Driven Architecture
- Use of Command Query Segregation pattern
- Use of Backend for Frontend
- Distributed services
- Tech Stack: NodeJS, Python, NextJS

Development & Deployment Architecture

- Use of Continuous Deployment & Zero Downtime Deployments
- Automated testing
- Test Driven Development
- Definition of Done includes: functional requirements, security, performance, analytics
- Code reviews
- Post Mortems

Infrastructure Architecture

- Infrastructure is deployed in AWS and Vercel
- Infrastructure is managed by Terraform
- Data residency: AWS region eu-west-2 (London), and multiple AZ for high availability
- Applications are deployed on ECS and Lambda (with ALB and API Gateway)
- Secure by design: Security Groups, CloudTrail, CloudWatch, Backups, AWS WAF, AWS Shield,
- High observability, monitoring each component of our application, CloudWatch dashboards, alerts, on call rotation.

Service level targets

Konfir supports an Availability service level agreement target of "three nines", 99.9%. To achieve the three nines availability target, Production deployments have been automated with zero downtime required for all releases except for major releases. Currently we utilise the autoscaling and templating AMI functionality in order to achieve scalability and versioning of our production release builds. These are attached to Elastic Load Balancers which do health checks on each node and remove them if they are not healthy.

Security & Privacy Frameworks

- Completed ISMS
- ISO 27001 certified
- Certified as the UK's first Attribute Service Provider under the DIATF
- ICO registered and GDPR compliant

Security controls

User access controls & policies

- Email addresses require confirmation on sign-up
- Sign ups are either reviewed by Konfir staff, or sent by direct invite
- Password expiry in place
- MFA available for clients

Employee access controls & policies

- Federated login
- 2FA/MFA where possible
- Access principles are role based and least privilege
- Regular security training

Security team

- Regular meetings from leaders across different areas of the business

Vulnerability and Malware Management

- Malware and Anti-Virus protection rolled out across company
- Regular pen testing
- Regular vulnerability scanning
- Encrypted disks
- VPN

Security procedures, policies, and logging

- Process for change management and software installation
- Regular risk reviews
- Employee security contract
- Audit logs to capture change in our infrastructure
- Application logs

Data segregation

- Konfir is a SaaS platform and segregating data using multi tenancy.
- Each data is linked to a specific organisation
- Users of an organisation cannot access data from another organisation
- Access control rules are checked for each request to access an information.
- Access control rules are tested via an automated test suite ran at each change request

Data encryption

- AWS Aurora database encryption at rest using AWS KMS
- AWS S3 objects encrypted at rest using AWS KMS
- AWS Secrets Manager to store secrets and distribute them securely to applications
- Encryption in transit using HTTPS with up to date TLS/Ciphers to all our endpoints, using AWS API Gateway and AWS Certificate Manager

Business Continuity

- Established Business Continuity Plan
- Disaster recovery planning
- Regular review of BCP

Backups & Data Recovery

- AWS Aurora replicates data across six availability zones
- Daily backups of our key databases
- Recovery in under 15 minutes

System maintenance

- Daily patching of our platform using Dependabot (library and framework updates)
- Regular vulnerability scanning and patching after each finding
- Zero downtime deployment, platform is always running

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About Konfir

Konfir is transforming employment verification in Europe, starting with the UK. We securely remove the administrative burden companies face when requesting or completing employment verifications. In a GDPR-compliant way, we streamline the approval process by providing instant verifications and tools for your team. Our aim is to accelerate all corners of the modern UK economy; for those switching jobs, to those renting a property, or obtaining any type of credit.

We provide an online platform at Konfir.com to enable organisations such as banks, brokers, credit providers, estate agents, recruitment agencies, prospective new employers and screening providers (our customer) to manage requests to and from other organisations (our Data Sources or Partners) to verify a consumer's employment and/or income details. Our Platform includes websites, microsites, databases, integrations, and back-end systems.