

# Synthetic Users Security Configuration Management Policy

**Version:** 1.0

**Effective Date:** 15 February 2026

**Owner:** Security & Compliance Lead

**Approved by:** CTO

---

---

## 1. Purpose

---

This policy defines how Synthetic Users manages, monitors, and maintains secure configurations across its infrastructure and application environments.

---

---

## 2. Scope

---

This policy applies to all production and staging environments, including cloud infrastructure, application containers, and managed services.

---

---

## 3. Configuration Management Approach

---

Synthetic Users operates a **fully managed, containerized infrastructure**. This architecture eliminates traditional server configuration management concerns:

- **No self-managed servers** — All compute runs on managed platforms (Render, AWS managed services) where the provider is responsible for OS patching, kernel updates, and base infrastructure security.

- **Immutable containers** — Applications are deployed as container images. Containers are not modified after deployment; changes require building and deploying a new image.
- **No SSH access** — Server-level access is disabled. All management is performed through managed platform dashboards and APIs.

## 4. Configuration Controls

### 4.1 Application Configuration

- All application environment variables and configuration are managed through **Render's configuration platform**.
- Configuration changes follow the [Change Management Policy](#), requiring documentation and peer review.
- Secrets and credentials are stored in Render's encrypted environment variable system, not in source code.

### 4.2 Infrastructure Configuration

Component	Configuration Method	Drift Risk
Compute (containers)	Immutable container images	None — containers are replaced, not modified
Networking (AWS)	Security Groups, NACLs	Reviewed quarterly
DNS / Edge (Cloudflare)	Cloudflare dashboard	Changes logged by Cloudflare
Storage (S3)	Bucket policies, IAM	Reviewed quarterly

### 4.3 Source Code & Dependencies

- All source code is managed in Git with branch protection and peer review requirements.

- Dependencies are tracked and scanned for known vulnerabilities as part of the SDLC.
  - GitHub secret scanning prevents accidental commit of credentials.
- 
- 

## 5. Configuration Baseline Compliance

---

- Container images are built from standard, minimal base images.
  - Non-essential services, ports, and packages are not included in container images.
  - Default credentials are never used; all authentication is through SSO/MFA or scoped API keys.
  - Baseline configuration settings for the application are documented in [Baseline Configuration Settings](#).
- 
- 

## 6. Monitoring

---

- Render and AWS provide audit logs for all configuration changes.
  - Cloudflare logs all DNS, WAF, and network configuration changes.
  - Unauthorized configuration changes would require compromising the managed platform account, which is protected by SSO with MFA.
- 
- 

## 7. Review

---

This policy is reviewed annually or when changes to the infrastructure architecture occur.