ACADMI

Security Standards & Architectural Map

Acadmi builds cutting-edge technology solutions to enhance training & skills development across multiple industry sectors. With data at the heart of Acadmi's applications, we have the optimal team in place to ensure the security of all of our clients.

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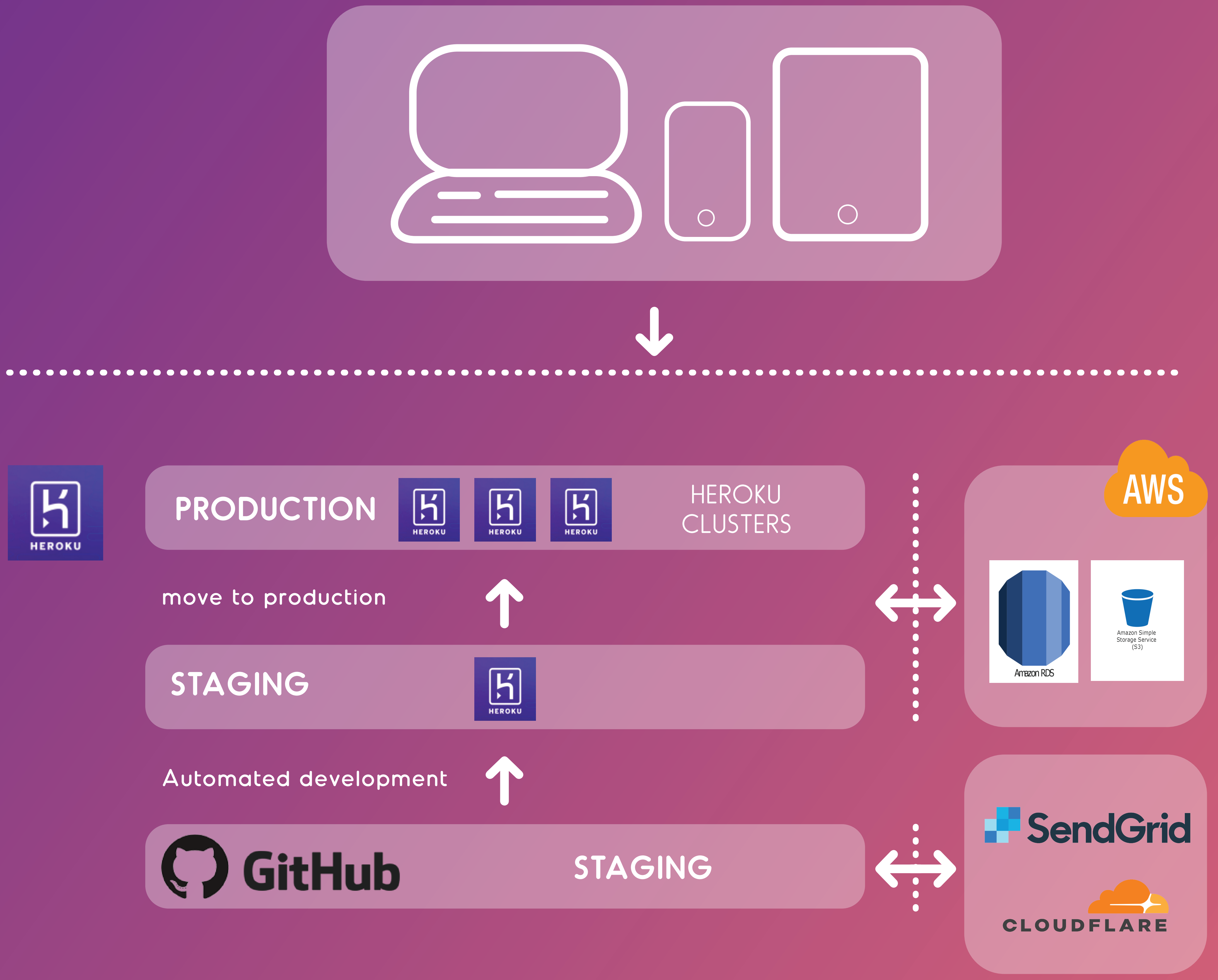
Architectural map

RESPONSIVE WEB APP OPTIMIZED FOR DESKTOPS, MOBILE & TABLET



PRODUCTION

HEROKU CLUSTERS

move to production

STAGING

Automated development

STAGING

TECH STACK

RAILS

Rails V5.0

CSS

HTML

- > Automated test suite
- > Continuous integration
- > Test driven development

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Security Standards

Error Handling & Logging

- .Display Generic Error Messages ✓
- .No Un-handled Exceptions ✓
- .Suppressed Framework-Generated Errors ✓
- .All Authentication Activities Logged ✓
- .All Administrative Activities Logged ✓
- .Sensitive Data Logged ✓
- .Inappropriate Data not Logged ✓
- .All Logs Stored Securely ✓

Data Protection

- .Consistent Use of HTTPS ✓
- .All requests back to HTTPS Re-Directed ✓
- .HTTP Access Disabled for all Protected Resources ✓
- .Strict Transport-Security Header Used ✓
- .Cloudflare Used to Enhance Security ✓
- .User Passwords Stored Using a Strong, Iterative, Salted Hash ✓
- .Secure Exchange Encryption Keys ✓
- .Secure Key Management Process ✓
- .Valid HTTPS Certificates Used (Cloudflare) ✓
- .Use & Storage of Sensitive Data Limited ✓

Configuration & Operations

- .Application Deployment Automated (Heroku) ✓
- .A Rigorous Change Management Process ✓
- .Regular Design Reviews ✓
- .Regular Code Reviews / Audit ✓
- .Post-Release Security Testing ✓
- .Guidelines for Infrastructure Hardening ✓
- .Incident Handling Plan Defined ✓
- .Internal Team Educated on Security ✓

Authentication

- .Credentials not Hardcoded ✓
- .Strong Password Reset System ✓
- .Strong Password Policy ✓
- .Sign-Up Captcha ✓
- .Denial of Service Attacks Prevented ✓
- .Key Information in Error Messages not Disclosed ✓
- .Database Credentials Stored Securely (No Copies Made) ✓
- .Account Lock-Out Against Brute-Force Attacks ✓
- .Applications & Middleware Run with Minimal Privileges ✓

Session Management

- .Session Tokens Regenerated ✓
- .Random 64-Bit Generator ✓
- .Idle Session Timeout (30 minutes) ✓
- .Absolute Session Timeout (12 hours) ✓
- .Session Invalidated after Logout ✓
- .Logout Button Placed on Every Page ✓
- .Secure Cookie Attributes (HttpOnly & Secure Flags) ✓
- .Cookie Domain & Path Correctly Set ✓
- .Cookie Expiration Time Set ✓

Input & Output Handling

- .Contextual Output Encoded (JSON) ✓
- .Whitelists preferred over Blacklists ✓
- .Parameterised SQL Queries Used ✓
- .Tokens to Prevent Forged Requests ✓
- .Encoding for the App Set ✓
- .Uploaded Files Validated ✓
- .Nosniff Header for Uploaded Content ✓
- .Source of Input Validated ✓
- .X-Frame Options Header Used ✓
- .Secure HTTP Response Headers Used ✓

Access Control

- .Access Control Checks Applied Consistently ✓
- .Gateway Access Control Protocol ✓
- .Principle of Least Privilege Applied ✓
- .Direct Object References for Access ✓
- .Control Checks Not Used ✓
- .Flag on all Users ✓
- .Unvalidated Forwards / Redirects Not Used ✓

Testing / Reviews

- .Regular Code Reviews & Audits ✓
- .Continuous Integration ✓
- .Penetration Testing ✓
- .Load Testing ✓