Technology Audit Checklist



Security & Compliance

Cloud Provider

Cloud provider administrator accounts are protected with MFA (multi-factor authentication), strong password and are not being used for the actual work.

MFA (multi-factor authentication) is enforced for all cloud provider users.

Password requirements policy is in place and is automatically enforced.

Password rotation policy is in place and is automatically enforced.

Each user has a least possible minimum of permissions defined by their job function.

Development credentials are disposable and short-lived.

Credentials are not shared between users.

Inactive credentials are identified, locked and periodically removed.

Access logs are stored for at least 90 days.

Logs are periodically inspected.

Log anomaly detection mechanism is configured.

Access to internal resources from the Internet is possible only via VPN.

Access to the production cloud account restricted to a limited set of users.

Application

No ports except for 80 and 443 are open on Internet-facing endpoints.

Web application firewall is configured to prevent brute-force attacks, deny access to bots and scrapers.

Underlying environments (VMs, containers) are regularly updated to include new security fixes.

External dependencies are being updated on the regular basis.

Scalability and Flexibility

Infrastructure

Autoscaling is properly configured for compute resources.

Autoscaling is properly configured for database resources.

Load balancers are used to properly distribute requests.

Static web resources are hosted and cached by the CDN.

Infrastructure scalability test plans are present and being regularly executed.

Application

Application components are containerized for simpler orchestration.

Application components have a stateless design where possible.

Microservice-based architecture is used.

Load tests are present and being regularly executed.

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High Availability and Disaster Recovery

Infrastructure

Multi-region deployment is used for the database layer.

Multi-region deployment is used for the compute layer.

Object storage is replicated to a secondary region.

Infrastructure availability is being monitored and automated notifications are configured.

RTO and PTO are defined and verified.

Cloud provider support plan covers prompt response to incidents.

Backups are replicated to multiple regions.

Application

Dependencies between components are defined and documented.

Zero-downtime deployment of the backend is implemented.

Zero-downtime deployment of the frontend is implemented.

SLAs are defined and honored.

Cost Management

Infrastructure

Access to billing is present. Cost optimization tools are enabled.

Cloud account inventory is being maintained. Unused resources are reviewed and removed.

Consolidated billing is configured.

Application

Per-invocation calls are optimized.

Logging can be easily turned on and off by a component and verbosity level.

Similar calls to external APIs are properly cached.

Development and Deployment Practices

Infrastructure

Infrastructure is described as code and versioned.

Compute layer is immutable.

Application

Version control systems are used. Static code analysis incorporated.

Code review process is in place. Automated code quality checks are in place.

Continuous Integration is present. Documentation is present.

Continuous deployment is present.