Cloud Security

Standards Compliance

Our development team designs and maintains architecture, access rules, logging, and monitoring/alerting in our production cloud environment that aim to achieve compliance with the CIS AWS Benchmark. An internal review is performed annually, with the reviewers, date, and benchmark score recorded. Remediations for noncompliancies are maintained, prioritized, and tracked per our development policies.

Being that CIS updates recommendations, the benchmark should be updated to newest versions with each annual review.

Changes to the Cloud Environment

Changes to the Cloud Environment include:

- Provisioning new compute & storage resources
- Updating configurations & base images for compute & storage resources
- Updating Virtual Private Cloud & Security Group rules
- Provisioning new subnet IPs
- · Modifying DNS records
- Updating TSL certificates

All changes are subject to:

- A change to deployment, architecture & cloud environment documentation in the codebase
- A review of the methodology and documented changes
 - The developer requesting changes must explain any risks associated with the change, mitigations, and advance testing methods that may be used.
- Requirement of generating a rollback strategy
- Requirement of providing a full audit log of actions taken upon deployment
- Verification via manual testing, access & network logging, load testing, etc. as appropriate by the release engineer.

Notification of Changes: We will notify our client and customers of changes to the cloud environment in cases where the change is likely to disrupt services, workflows, or introduce new security vulnerabilities. We will communicate the planned change and the associated risks at least 1 week prior to the change being implemented.

Cloud-related Access Policy

Only release engineers are provided access to the Cloud Environment via IAM. Release engineer accounts have minimal necessary authorizations to make environmental changes and run standard deployments; only the technical lead of NK has administrator level access. Release engineers may only execute changes, after review. Access to the Cloud Environment itself is enabled by SSH keys. The NK technical lead may grant, revoke, or refresh these keys as needed during personel additions,

removals, and potential leaks.

Training & Certification

All Nested Knowledge developers with production access (release engineers) receive at minimum AWS Cloud Practitioner certification. New release engineers are supervised during their first 5 deployments or Cloud Environment modifications.

Compliance Statement

All Employees and Contractors who access Nested Knowledge's information systems will be provided with and required to review the Cloud-Related Access Policy.

Revision History

Author	Date of Revision/Review	Comments/Description
K. Holub	2/24/2023	Addition of CIS benchmark
K. Cowie	11/21/2021	Minor Changes

Return to Policies

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