

# Exam Cram Notes: General Security Concepts – Change Management

## 1. What is Change Management?

Change management is a structured process for implementing changes in IT environments while **minimizing security risks** and **ensuring business continuity**. It ensures changes are **documented, tested, approved, and monitored**.

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## 2. Key Phases of Change Management

1. **Request for Change (RFC)** – A formal proposal to modify a system or process.
  2. **Change Evaluation & Risk Assessment** – Determines impact, security risks, and feasibility.
  3. **Approval Process** – Change Advisory Board (CAB) or management **approves or rejects** the change.
  4. **Testing & Validation** – Change is tested in a **staging environment** before deployment.
  5. **Implementation & Deployment** – Change is applied following a structured **rollout plan**.
  6. **Monitoring & Review** – Ensures change is working correctly and addresses **any issues**.
  7. **Documentation & Audit Logs** – Records change details for future reference and compliance.
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## 3. Configuration Management

- Ensures **systems maintain a consistent, secure state** after changes.
  - Uses **configuration baselines** (standardized system settings).
  - Example: **Automating firewall rule updates** while ensuring compliance with security policies.
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## 4. Patch Management

- Part of change management that handles **software updates** to fix security vulnerabilities.
  - Patch management process:
    1. **Identify required patches** (via vendor updates, vulnerability scanning).
    2. **Test patches** in a controlled environment.
    3. **Deploy patches** to production systems.
    4. **Monitor for failures or issues** after deployment.
  - Example: Applying **critical security patches** to fix OS vulnerabilities.
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## 5. Change Control Documentation

- Every change must be **documented** with:
    - Reason for change
    - Risk assessment results
    - Implementation steps
    - Testing results
    - Approval records
    - Post-change monitoring results
  - Example: A company implementing a **new VPN solution** must document potential risks and rollback plans.
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### Key Exam Tips

- ✓ Know the **steps of the change management process** and their purpose.
- ✓ Understand **how configuration and patch management** fit into security.
- ✓ Expect scenario-based questions on **handling IT changes securely**.
- ✓ Be familiar with **change control documentation** and compliance requirements