

# Defect Log - HX Infrastructure Ansible

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## Purpose

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Centralized tracking of all code quality, security, and architectural issues identified through CodeRabbit analysis, linting, and manual reviews.

## Defect Template

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- **ID**: DEF-YYYY-MM-DD-###
- **Source**: CodeRabbit/Manual/Linting
- **Severity**: Critical/High/Medium/Low/Nitpick
- **Component**: Role/Playbook/Config/Docs
- **Description**: Clear description
- **Owner**: Assigned developer
- **Status**: Open/In-Progress/Resolved/Deferred
- **Created**: Date
- **Target**: Sprint/Release

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## Active Defects

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### CRITICAL SECURITY ISSUES

#### DEF-2025-09-27-001

- **Source**: CodeRabbit (feedback\_01.txt)
- **Severity**: Critical
- **Component**: Roles/Defaults
- **Description**: Remove default passwords and secrets from defaults/main.yml files - All roles contain hardcoded default passwords
- **Owner**: Unassigned
- **Status**: Open
- **Created**: 2025-09-27
- **Target**: Batch-1 remediation

#### DEF-2025-09-27-002

- **Source**: CodeRabbit (feedback\_01.txt)
- **Severity**: Critical
- **Component**: Roles/Tasks
- **Description**: Fix sudoers file management security - Current sudoers modifications are unsafe, need visudo validation
- **Owner**: Unassigned
- **Status**: Open
- **Created**: 2025-09-27
- **Target**: Batch-1 remediation

**DEF-2025-09-27-003**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Critical
- **Component:** Roles/Tasks
- **Description:** Implement proper path safety in file operations - Many file operations use user-provided paths without validation
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

**HIGH PRIORITY ISSUES****DEF-2025-09-27-004**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** High
- **Component:** Roles/Redis
- **Description:** Redis security hardening missing - lack proper authentication, bind restrictions, SSL/TLS config
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

**DEF-2025-09-27-005**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** High
- **Component:** Roles/PostgreSQL
- **Description:** PostgreSQL security configuration incomplete - pg\_hba.conf needs stricter controls, missing SSL cert mgmt
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

**DEF-2025-09-27-006**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** High
- **Component:** Roles/Variables
- **Description:** Unsafe variable access patterns - Many tasks use variables without default values, need | default("")
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

**DEF-2025-09-27-007**

- **Source:** CodeRabbit (feedback\_01.txt)

- **Severity:** High
- **Component:** Testing
- **Description:** Molecule testing framework incomplete - Missing comprehensive test scenarios and security validation
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

#### DEF-2025-09-27-008

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** High
- **Component:** Architecture
- **Description:** Roles don't follow SOLID principles - Single Responsibility violations, tight coupling
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

#### DEF-2025-09-27-009

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Roles/Structure
- **Description:** Missing standardized directory structure - Inconsistent role layout, missing meta/main.yml files
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

#### DEF-2025-09-27-010

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Roles/Tasks
- **Description:** Incomplete task file organization - Missing validate.yml, prepare.yml, configure.yml separation
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

### MEDIUM PRIORITY ISSUES

#### DEF-2025-09-27-011

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Roles/Tasks

- **Description:** Inconsistent when clause usage - Some tasks have redundant or missing when clauses
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

#### DEF-2025-09-27-012

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Roles/Error Handling
- **Description:** Missing error handling in critical tasks - Database operations lack proper error handling
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

#### DEF-2025-09-27-013

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Roles/Naming
- **Description:** Inconsistent task naming conventions - Need descriptive, action-oriented names
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

#### DEF-2025-09-27-014

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Roles/Idempotency
- **Description:** Missing idempotency checks - Some tasks may run unnecessarily, need changed\_when conditions
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

#### DEF-2025-09-27-015

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Documentation
- **Description:** Code blocks missing language annotations - YAML and shell code blocks need proper annotations
- **Owner:** Unassigned
- **Status:** Open

- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

#### **DEF-2025-09-27-016**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Configuration
- **Description:** Deprecated Ansible settings in use - Some modules use deprecated parameters
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

#### **DEF-2025-09-27-017**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Testing
- **Description:** Missing lint configuration - No ansible-lint configuration, missing yamllint rules
- **Owner:** Unassigned
- **Status:** In-Progress
- **Created:** 2025-09-27
- **Target:** This PR (Standards Pack)

#### **DEF-2025-09-27-018**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Roles/Handlers
- **Description:** Missing handler standardization - Handlers not consistently implemented
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

#### **DEF-2025-09-27-019**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Templates
- **Description:** Template management inconsistent - Templates lack proper variable substitution
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

#### **DEF-2025-09-27-020**

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Medium
- **Component:** Performance
- **Description:** Inefficient task execution - Some tasks could be combined for better performance

- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

## ADDITIONAL HIGH PRIORITY ISSUES FROM FEEDBACK\_02

### DEF-2025-09-27-021

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Services
- **Description:** Systemd service management incomplete - Missing proper systemd unit file templates
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

### DEF-2025-09-27-022

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Services
- **Description:** Service configuration templates missing - No standardized configuration file templates
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

### DEF-2025-09-27-023

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Database
- **Description:** PostgreSQL integration incomplete in hx\_pg\_auth\_standardized - Missing schema management
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-4 remediation

### DEF-2025-09-27-024

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Database
- **Description:** Database migration handling missing - No database version management or rollback procedures
- **Owner:** Unassigned
- **Status:** Open

- **Created:** 2025-09-27
- **Target:** Batch-4 remediation

#### **DEF-2025-09-27-025**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Web
- **Description:** Web server configuration incomplete - Missing nginx/apache configuration templates
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-5 remediation

#### **DEF-2025-09-27-026**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Web
- **Description:** Static file management missing - No proper static file serving configuration
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-5 remediation

#### **DEF-2025-09-27-027**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** LiteLLM
- **Description:** Multi-provider LLM support incomplete - Missing configuration for different LLM providers
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-6 remediation

#### **DEF-2025-09-27-028**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** LiteLLM
- **Description:** Proxy configuration templates missing - No standardized proxy configuration files
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-6 remediation

#### **DEF-2025-09-27-029**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Testing

- **Description:** Comprehensive testing missing - No end-to-end testing scenarios or security penetration testing
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

#### DEF-2025-09-27-030

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** CI/CD
- **Description:** CodeRabbit CI/CD workflow missing - No automated code review configuration
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** This PR (Standards Pack)

#### DEF-2025-09-27-031

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** High
- **Component:** Security
- **Description:** Container security not addressed - Missing container security scanning and runtime policies
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

### LOW PRIORITY ISSUES

#### DEF-2025-09-27-032

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Low
- **Component:** Documentation
- **Description:** README files incomplete - Missing role dependencies documentation and usage examples
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

#### DEF-2025-09-27-033

- **Source:** CodeRabbit (feedback\_01.txt)
- **Severity:** Low
- **Component:** Performance
- **Description:** Unnecessary package installations - Some packages installed but not used
- **Owner:** Unassigned
- **Status:** Open



- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

## **MEDIUM PRIORITY ISSUES FROM FEEDBACK\_02**

### **DEF-2025-09-27-034**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Roles/Structure
- **Description:** Missing defaults standardization - Default variables not properly categorized
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

### **DEF-2025-09-27-035**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Logging
- **Description:** Log management not implemented - Missing log rotation and centralized logging setup
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-4 remediation

### **DEF-2025-09-27-036**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Database
- **Description:** Database monitoring not implemented - Missing performance monitoring and health checks
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-4 remediation

### **DEF-2025-09-27-037**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Web
- **Description:** Web application deployment incomplete - Missing application server configuration
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-5 remediation

**DEF-2025-09-27-038**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** LiteLLM
- **Description:** LLM model management incomplete - Missing model versioning support
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-6 remediation

**DEF-2025-09-27-039**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Testing
- **Description:** Validation scripts incomplete - Missing service validation scripts
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

**DEF-2025-09-27-040**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** CI/CD
- **Description:** Pre-commit hooks not configured - Missing code quality checks
- **Owner:** Unassigned
- **Status:** In-Progress
- **Created:** 2025-09-27
- **Target:** This PR (Standards Pack)

**DEF-2025-09-27-041**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Monitoring
- **Description:** Monitoring integration missing - No Prometheus metrics or Grafana dashboards
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-4 remediation

**DEF-2025-09-27-042**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Monitoring
- **Description:** Health check endpoints missing - No standardized health check implementation
- **Owner:** Unassigned
- **Status:** Open

- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

#### **DEF-2025-09-27-043**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Security
- **Description:** Network security incomplete - Missing firewall rule management
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-5 remediation

#### **DEF-2025-09-27-044**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Documentation
- **Description:** Operational documentation missing - No troubleshooting guides or runbooks
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

#### **DEF-2025-09-27-045**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Quality
- **Description:** Error messages not standardized - Inconsistent error message formats
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-2 remediation

#### **DEF-2025-09-27-046**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Medium
- **Component:** Architecture
- **Description:** Role interdependencies not managed - Missing dependency declarations
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

### **LOW PRIORITY ISSUES FROM FEEDBACK\_02**

#### **DEF-2025-09-27-047**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Low

- **Component:** Documentation
- **Description:** Version management incomplete - Missing semantic versioning and changelog maintenance
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

**DEF-2025-09-27-048**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Low
- **Component:** Code Quality
- **Description:** Code comments insufficient - Missing inline documentation
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-3 remediation

**DEF-2025-09-27-049**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Low
- **Component:** Variables
- **Description:** Variable naming inconsistencies - Mixed naming conventions
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-1 remediation

**DEF-2025-09-27-050**

- **Source:** CodeRabbit (feedback\_02.txt)
- **Severity:** Low
- **Component:** Configuration
- **Description:** Configuration drift detection missing - No configuration state monitoring
- **Owner:** Unassigned
- **Status:** Open
- **Created:** 2025-09-27
- **Target:** Batch-6 remediation

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## Defect Status Summary

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- **Total Defects:** 50
- **Critical:** 3
- **High:** 16
- **Medium:** 23
- **Low:** 8

- **Open:** 47
- **In-Progress:** 3
- **Resolved:** 0
- **Deferred:** 0

## Next Steps

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1. **Standards Pack (This PR):** Address DEF-2025-09-27-017, DEF-2025-09-27-030, DEF-2025-09-27-040
2. **Batch-1 Remediation:** Focus on Critical and High priority defects for common, ssh, users, docker\_engine, prometheus\_node\_exporter roles
3. **Systematic Batch Processing:** Continue through remaining batches addressing defects by severity and component

## Notes

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- All defects extracted from CodeRabbit analysis (feedback\_01.txt and feedback\_02.txt)
- Defects mapped to remediation batches based on component and complexity
- Severity assignment considers security impact, system stability, and maintenance overhead
- This log will be updated as defects are resolved during the batch remediation process