**Detailed Test Plan**

**Project:** Telco Cloud Migration  
**Date:** May 2025

**1. Introduction**

The purpose of this Detailed Test Plan is to define the testing strategy, scope, objectives, schedule, resources, and deliverables for the Telco Cloud Migration Project. This plan covers integration, system, security, and performance testing in addition to User Acceptance Testing (UAT).

**2. Testing Objectives**

* Validate that all components integrate seamlessly in the cloud environment
* Ensure system functionality matches business requirements
* Verify security controls and compliance requirements are met
* Confirm performance benchmarks and SLAs are achievable

**3. Scope**

* Integration testing between cloud-hosted applications and on-premise systems
* System testing of all migrated services and workflows
* Security testing including vulnerability scanning and access control verification
* Performance and load testing under expected operational conditions

**4. Testing Types & Responsibilities**

| **Test Type** | **Description** | **Responsible Team** |
| --- | --- | --- |
| Integration Testing | Verify interfaces and data flow between systems | QA Team, Developers |
| System Testing | Validate end-to-end system functionality | QA Team |
| Security Testing | Assess security posture, identify vulnerabilities | Security Team |
| Performance Testing | Test responsiveness, stability under load | QA Team, Cloud Provider |
| User Acceptance Testing (UAT) | Business users validate system usability and workflows | Business Users, UAT Coordinator |

**5. Test Environment**

* Cloud-based test and staging environments configured identically to production
* Use of anonymized, representative test data
* Access control limited to testing personnel

**6. Test Schedule**

| **Phase** | **Start Date** | **End Date** | **Activities** |
| --- | --- | --- | --- |
| Integration Testing | Aug 5, 2025 | Aug 12, 2025 | Interface and API testing |
| System Testing | Aug 13, 2025 | Aug 20, 2025 | Functional testing of complete system |
| Security Testing | Aug 15, 2025 | Aug 22, 2025 | Vulnerability scans, penetration tests |
| Performance Testing | Aug 18, 2025 | Aug 25, 2025 | Load and stress testing |
| User Acceptance Testing | Aug 26, 2025 | Sept 5, 2025 | User-driven acceptance tests |

**7. Entry and Exit Criteria**

* Entry: All development and code reviews complete, environment ready, test cases approved
* Exit: All critical and high priority defects resolved, test cases executed with pass rate ≥ 95%

**8. Defect Management**

Defects will be logged in Jira, categorized by severity, and prioritized for resolution. Defect status reports will be distributed daily during testing phases.