**Security Penetration Testing & Vulnerability Assessments**

**Objective:**  
Identify and remediate security weaknesses in the MoHRIS system to protect sensitive HR data and ensure compliance with industry standards.

**Detailed Components:**

* **Penetration Testing Scope:**
  + External and internal network assessments.
  + Application-layer testing (mobile apps, APIs, web admin).
  + Biometric system integration points.
* **Techniques Used:**
  + Manual and automated testing tools (e.g., OWASP ZAP, Burp Suite).
  + SQL injection, XSS, CSRF, authentication bypass, privilege escalation.
* **Reporting & Remediation:**
  + Detailed vulnerability reports with risk ratings (Critical, High, Medium, Low).
  + Remediation recommendations and timelines.
  + Verification of fixes and retesting.
* **Compliance Alignment:**
  + GDPR, Kenya Data Protection Act, UN security policies.