# ARCHITECTURE REVIEW & PERFORMANCE ASSESSMENT

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# OBJECTIVES

- Perform an architecture review and performance assessment of the PeopleSoft production system

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# ASSUMPTIONS & SUCCESS FACTORS

- Access to key resources and documentation

- System access to a production like (not production) will be available

- A detailed predefined workbook /checklist will be used to help gather system architecture information and performance data

- Tools will be used to help gather performance data and identify bottlenecks

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# REVIEW OF CURRENT PRODUCTION ARCHITECTURE

- Identify Server Configuration
- Review HW Specifications
- OS Review
- Disk Storage Device Overview
- Review Network Topology
- Review Database Platform
- Webserver Configuration
- Application Servers
- PeopleTools Environment
- PeopleSoft Application Overview

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# REVIEW OPERATIONS & MAINTENANCE PROCEDURES

- Review Development and Test PeopleSoft Architecture
- Support Team Review
- Infrastructure Team Review
- Availability Requirements
- Review PeopleSoft Queries
- CM Process
- PeopleSoft fix policy
- System Monitoring
- Job Scheduling
- Other Considerations
  - Security Procedures & Policies
  - Backup & Recovery Procedures
  - Capacity Planning

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# CURRENT PERFORMANCE OBSERVATIONS/ISSUES

- Describe current overall performance
- Identify slow online processes
- Identify slow batch processes
- Review user complaints
- Review performance tools
    - PeopleSoft Performance Monitor
    - Load testing
- Review any documentation regarding performance
- Identify existing performance modifications
- Code documentation
- Custom Indexes

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# TOOLS TO MONITOR/ANALYZE PERFORMANCE

- Implement monitoring scripts to analyze the following:
    - Server OS statistics
    - Application Server data
    - Web Server statistics
    - Process Scheduler usage
    - Database statistics

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# IDENTIFY PERFORMANCE METRICS

- User usage
- Availability
- Batch job performance
- Online Performance
- HW/SW issues
- On-call activity
- CPU utilization
- Database growth
- Defects
- Support call time

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# PROVIDE RECOMMENDATIONS VIA WORKBOOK

- Document system architecture
- Present findings
- Recommendations to improve overall system performance
  - Prioritized list

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# IMPLEMENT CHANGES

- Establish performance baseline prior to change

- TEST change in production like environment

- Implement changes one at a time

- Document changes

- Use metrics to quantify change in system performance

# CONCLUSION

- Poor system performance is generally the result of several factors

- Bottlenecks need to be identified and eliminated

- Performance tuning is an on-going iterative process

- Performance should be considered at every stage of the development life-cycle

- Load testing tools should be implemented if possible

- Performance monitoring is a daily process

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