# IBM ODM Performance Test Plan

Testing the performance of IBM Operational Decision Manager (ODM) involves evaluating its response time, throughput, scalability, and resource utilization under different conditions.

1. **Define Performance Metrics:**
   * Identify key performance metrics relevant to your use case. These may include response time, throughput, CPU and memory usage, and system scalability.
2. **Set Test Objectives:**
   * Clearly define the objectives of your performance testing. Are you testing the decision execution speed, the system's ability to handle concurrent requests, or its scalability under increased load?
3. **Create Test Scenarios:**
   * Develop realistic test scenarios that simulate the expected production workload. Consider different types of decisions, data inputs, and transaction volumes.
4. **Use Performance Testing Tools:**
   * Leverage performance testing tools such as Apache JMeter, LoadRunner, or others to simulate a realistic user load on the ODM system. These tools allow you to control and monitor various aspects of the test.
5. **Monitor System Resources:**
   * Monitor the resource utilization of the ODM components during the test. Track CPU usage, memory consumption, and other relevant metrics to identify potential bottlenecks.
6. **Execute Test Scenarios:**
   * Run your performance test scenarios, gradually increasing the load to evaluate how ODM performs under different levels of stress. Observe response times and identify any performance degradation.
7. **Analyze Results:**
   * Analyze the test results to identify performance bottlenecks, scalability limits, and areas for improvement. Look for patterns of degradation, and determine whether the system meets your performance requirements.
8. **Optimize and Retest:**
   * Based on the analysis, make necessary optimizations to your ODM configurations, rule design, or infrastructure. Retest the system to validate improvements and iterate the process as needed.
9. **Scale Testing:**
   * If scalability is a concern, conduct scale testing to determine how well ODM scales with increased hardware resources or distributed deployments.
10. **Consider Real-world Factors:**
    * Factor in real-world conditions such as network latency, data volume, and variations in user behavior to make your performance testing scenarios more representative.
11. **Document and Report:**
    * Document your test scenarios, results, and any optimizations made. Prepare a comprehensive report outlining the performance characteristics of IBM ODM under the tested conditions.

**Note: Repeat the same steps with and without decision warehouse enabled**