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getting IT done, so you don't have to

Capitalstream Application Health Assessment

The Capitalstream Application Health Assessment provides a review of performance metrics and logs across all application tiers (excludes database) to ensure the ongoing health of the system. The database tier is reviewed as part of the Oracle Database Health Assessment.

This assessment will:

- Recommend optimal settings for customer specific hardware environment
- Ensure your set up includes useful log settings to generate actionable information
- Provide input for additional environment resources and assist in proactive planning for environment growth
- Ensure application performance and resource utilization remain within acceptable ranges and do not exceed thresholds
- Identify areas to integrate with enterprise monitoring system to provide meaningful alerts to operational staff
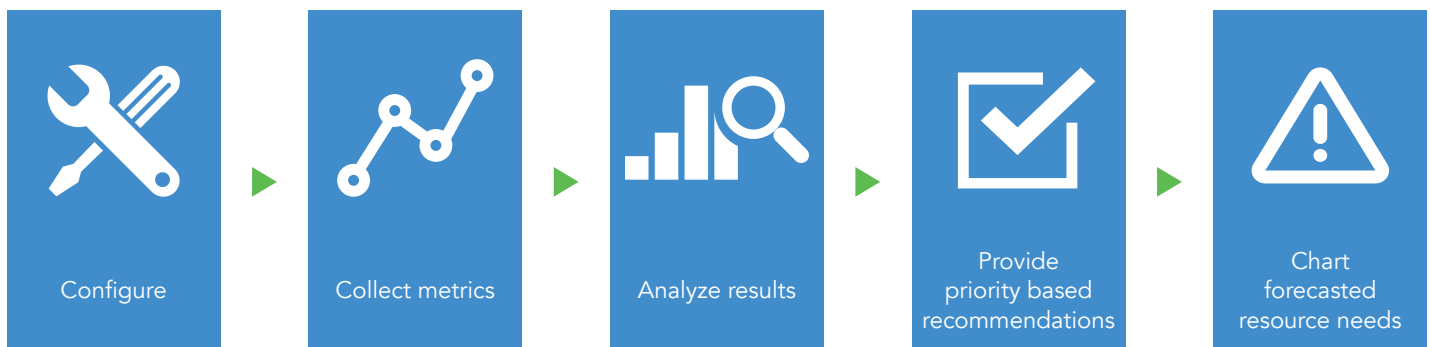- Deliver a prioritized list of items to be reviewed and addressed prior to next review

Now you can be proactive and avoid:

- Out of memory conditions that lead to degradation of application throughput
- Excessive garbage collection pauses that slow down the application
- Running out of disk space and the associated impacts to your staff and customers
- Long running queries that prolong workflow steps and wait times to customers

> What you can expect from the Health Assessment

The assessment will start with the set up and configuration of processes to collect the performance and resource usage metrics. The collected data will be analyzed to determine the current state of application health, provide immediate recommendations on any critical or near term risks and to forecast resource requirements based on current trends.

5 step assessment process:

Configure ▶ Collect metrics ▶ Analyze results ▶ Provide priority based recommendations ▶ Chart forecasted resource needs

This Health Assessment can be provided as a one time engagement or on an ongoing basis as a services subscription.

The following components will be reviewed and proposed remediation will be provided in priority order:

Web Server

- Web server configuration (e.g. Apache threads etc.)
- Load balancing configuration
- Performance log collection (CPU / disk / memory use)
- Logging settings for access and error logs

Application Server

- Java startup parameters – min/max memory, perm gen size, garbage collection options and logging
- Servlet startup files: JMXServer.xml, server.xml and web.xml
- Property files related to server capacity and performance: wbs, docmgmt, documentqueue, jobmanager, workflow
- Performance log collection (CPU / disk / memory use, database connections etc.)
- Logging settings
- Identify long running and costliest SQL queries
- User thread time outs
- Review scheduled process or batch run times
- Workflow execution time (review outlies)
- Workflow engine and thread utilization
- Analyze garbage collection logs
- Analysis of application server log for high severity errors

- Verify maintenance of application backup and log files
- Identify long funning or incomplete/stalled workflow

Report Server

- Determine Java manufacturer and version
- Java startup parameters – min/max memory, perm gen size, garbage collection options and logging
- Servlet startup files: JMXServer.xml, server.xml and web.xml
- Performance log collection (CPU / disk / memory use, database connections etc.)
- Logging settings

Document Generation Server

- ApplicationContext.xml and ApplicationControl.xml
- Performance log collection (CPU / disk / memory use,)
- Logging settings

Deliverables would include:

- Summary of performance metrics
- Summary of resource utilization
- Summary of error conditions and unusual resource utilization

- Recommendations for adjustments
- Forecast of resource usage and flagging of resources likely to exceed current capacity
- Prioritization of recommendations

> About Accutive

Accutive provides comprehensive Information Technology solutions and support which includes CapitalStream Platform Professional Services; Systems Integrations, IT Application Development; and Enterprise Security specializing in Financial Services. As experts in the CapitalStream Platform, Accutive can support all your initiatives from upgrades, enhancements, work orders, integrations, reports, documents to maintenance and monitoring ensuring you have optimal performance and throughput.

If you have questions or would like more information please contact Accutive today:

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