Management Pack for Oracle Coherence

Oracle Enterprise Manager is Oracle’s on-premise management platform, providing a single pane of glass for managing all of a customer’s Oracle deployments, whether in their data centers or in the Oracle Cloud. Through deep integration with Oracle’s product stack, Enterprise Manager provides market-leading management and automation support for Oracle applications, databases, middleware, hardware and engineered systems.

Enterprise Manager helps increase business agility using application-to-disk automation and maximizes service levels through intelligent management of the Oracle stack. It also enables customers to reduce costs through comprehensive lifecycle automation, combined hardware and software management, proactive monitoring and compliance control.

Health and Performance Dashboard and Heat Map

Oracle Coherence is an in-memory data-grid and distributed caching solution. Oracle Coherence is composed of many individual nodes or JVMs which work together to provide highly reliable and high speed virtual caching. The complexity of the cluster is completely hidden from the user of the virtual cache. While this greatly benefits developing highly available and efficient applications, it also poses a serious challenge for an administrator responsible for monitoring and maintaining the Oracle Coherence Clusters.

Oracle Enterprise Manager provides detailed visibility into performance of all the
KEY BENEFITS

- Proactive monitoring using events and incidents
- Quick determination of performance hotspots using heat map and topology views
- Plan cluster down time and prepare your Coherence Clusters using advanced cache data management
- Track node configuration changes over period of time
- Automation

RELATES PRODUCTS

- WebLogic Server Management Pack Enterprise Edition
- SOA Management Pack Enterprise Edition
- Management Pack for WebCenter Suite
- Management Pack for Non-Oracle Middleware
- Diagnostic Pack for Oracle Database
- Real User Experience Insight

Monitor the Cluster Performance Hotspots

For preventive monitoring it is critical to get alerts on the performance issues. Using the Incident system in Enterprise Manager, users can set threshold on metrics to create events that can trigger rule based incidents and notification presented on the console or by various other mechanisms such as email, mobile text, SNMP trap, etc.

Oracle Enterprise Manager also provides highly customizable performance views for monitoring performance charts and trends. Administrators can overlay metrics for multiple nodes or caches in the same or different cluster for detail analysis to provide detailed visibility at the desired level. Nodes, caches, services and Oracle*Extend connections are displayed via drill down views that allows administrators to determine the root cause of performance problems or simply identify performance trends in the Coherence Cluster.

Configuration and Lifecycle Management

Oracle Enterprise Manager provides a complete provisioning and configuration management solution for Oracle Coherence. Administrators can maintain their Oracle Coherence setup image in the software library and deploy it throughout their infrastructure to create new clusters or add nodes to an existing cluster.

Oracle Enterprise Manager collects the nodes and caches configuration periodically. Users can search and compare configuration items across multiple clusters (such as...
production cluster vs. QA cluster), and even be alerted on configuration changes. Getting visibility into the configuration of caches and services helps identify issues which could be affecting the application performance. E.g. if the service task backlog is consistently high, an administrator can quickly find out the thread pool configuration of the service and decide if the bottlenecks are caused by lack of adequate threads. Similarly, cache configuration parameters such as high units and low units, indicate the cache capacity configured on the node.

Centralized Console for Coherence QL

Administrators routinely have to find out if entries pertaining to certain filter criteria are available in the cache. Oracle Enterprise Manager provides a centralized console to run Coherence QL on the caches. The queries can be stored for easy access. An administrator can also check the performance of the queries using Query Trace and Query Explain Plan features. These functions indicate how the indexes are used for the selected Coherence QL query.

Contact Us

For more information about Management Pack for Oracle Coherence, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Hardware and Software, Engineered to Work Together

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