ORACLE ENTERPRISE MANAGER 10^g SYSTEM MONITORING PLUG-IN FOR CHECK POINT FIREWALL

SYSTEM MONITORING PLUG-IN FOR CHECK POINT FIREWALL

GRID CONTROL DELIVERS A BREADTH OF MANAGEMENT PLUG-INS FOR COMPLETE MONITORING OF THE ORACLE GRID ENVIRONMENT

- Consolidate all of the information about your Oracle environment in the Grid Control Console
- Correlate availability and performance problems across entire set of IT components
- Enhance service modeling and perform comprehensive root cause analysis
- Increase operational efficiencies

SYSTEM MONITORING PLUG-IN FOR CHECK POINT FIREWALL DELIVERS:

- Out-of-box availability and performance monitoring
- Detailed configuration information collection and analysis
- Out-of-box reports for easier problem diagnosis, trend analysis and capacity planning.
- Advanced monitoring and event management features:
  - Blackouts
  - Corrective Actions
  - Notifications
  - User-defined metrics
  - Monitoring Templates
  - Dashboards

In today's Internet-enabled world, IT organizations rely heavily on firewalls for securing their applications against intruder attacks and for ensuring the overall success of their business. While firewalls provide the first line of defense against security attacks, they also add an extra point of failure for end-user facing applications, making it critical for IT administrators to be able to detect and resolve firewall availability and performance problems before they impact business users.

The Enterprise Manager 10^g Grid Control System Monitoring Plug-in for Check Point Firewall delivers comprehensive availability, performance and configuration information for Check Point Firewalls. By combining Check Point Firewall monitoring with the richest and most comprehensive management of Oracle systems, Grid Control significantly reduces the cost and complexity of managing applications that rely on Check Point Firewall and Oracle technologies. Application administrators can now consolidate all of the monitoring information in the Grid Control Console, model and view the complete topology of their applications, and perform comprehensive root cause analysis. Network administrators can perform proactive monitoring and detailed configuration analysis for Check Point Firewalls, assess the impact of firewall performance problems on end-user services, and better align their efforts with business needs.

Realize Immediate Value through Out-of-Box Availability and Performance Monitoring

The System Monitoring Plug-in for Check Point Firewall automatically collects a comprehensive set of availability and performance metrics with pre-defined thresholds, immediately alerting administrators of any issues. This allows administrators to derive instant value, while giving them the flexibility to fine-tune thresholds according to their specific operational requirements. Out of the one hundred and fifty four metrics collected, some of the key performance indicators monitored include: Check Point Firewall Status, CPU and Memory Utilization, Session Statistics, Firewall Traffic (including specific information about incoming/outgoing/accepted/rejected traffic); Network Interface Status, Bandwidth and Traffic Rates.

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In addition to real-time monitoring of performance metrics for Check Point Firewall, Grid Control also stores the monitoring information in the management repository, thereby enabling administrators to analyze performance through various historical views (Last 24 Hours/ Last 7 Days/ Last 31 Days) and facilitating strategic tasks such as trend analysis and reporting.

To further aid administrators with critical tasks such as problem diagnosis, trend analysis and capacity planning, the System Monitoring Plug-in for Check Point Firewall includes nine out-of-box reports, summarizing key information about Check Point Firewall availability, performance, traffic and configuration. These reports are easily accessible from the Check Point Firewall Home page in the Grid Control Console and from the Information Publisher (Enterprise Manager's powerful reporting framework), enabling administrators to schedule, share, and customize reports to fit their operations needs.

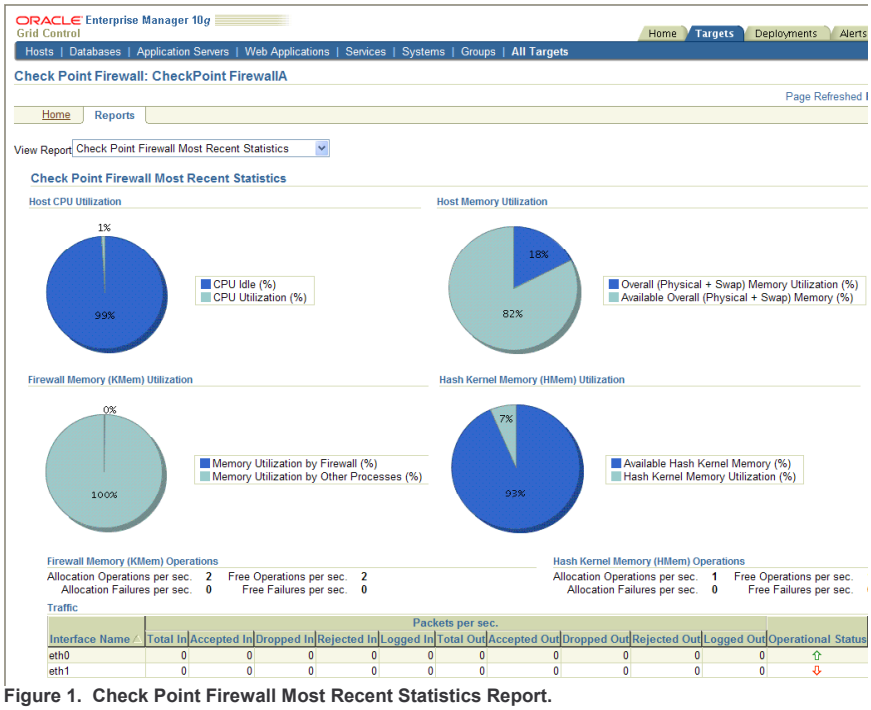

Figure 1. Check Point Firewall Most Recent Statistics Report.

Apply Grid Control's Powerful Monitoring and Event Management Features to Check Point Firewall

The System Monitoring Plug-in for Check Point Firewall leverages Grid Control's powerful monitoring and event management features for Check Point Firewall monitoring, thereby delivering a robust monitoring solution through automation, standardization and "manage many-as-one" approach. Key features include:

- **Blackout Periods**: prevent unnecessary alerts from being raised during scheduled maintenance operations, such as hardware upgrade.
- **Monitoring Templates**: simplify the task of standardizing monitoring settings across the entire Check Point Firewall environment, by allowing administrators to specify the monitoring settings (metrics, thresholds, metric collection schedules and corrective actions) once and applying them to any number of Check Point Firewall instances.

- **User-defined Metrics**: allow administrators to collect and monitor parameters specific to their applications.
- **Corrective Actions**: ensure that routine responses to alerts are automatically executed, thereby saving administrators time and ensuring problems are dealt with before they noticeably impact users.
- **Notification Rules, Methods and Schedules**: define when and how administrators should be notified about critical problems with their applications, ensuring quicker problem resolution.
- **Groups / Systems**: significantly simplify management of large numbers of components, allowing administrators to "manage many-as-one". By combining Check Point Firewall instances in groups, or including them in heterogeneous groups or systems, administrators can benefit from a wealth of group management features, such as ability to proactively monitor availability and alerts of all group members via the System Monitoring Dashboard.

Lower Costs through Knowledge: Know What You Have and What Changed

Tracking configurations is one of the most time-consuming and difficult tasks administrators face on a daily basis. Being able to quickly view a detailed configuration snapshot, analyze historical changes and enforce standardization between systems is key to diagnostics, auditing, compliance, and making solid business decisions.

System Monitoring Plug-in for Check Point Firewall simplifies these tasks by automatically collecting detailed configuration information about Check Point Firewall, including hash kernel memory information and network interface configuration. This information is collected daily and stored in the management repository. In addition, Grid Control automatically tracks all changes to the Check Point Firewall configuration, helping administrators answer key questions about what changed, who is responsible for the change, and when the change was made. System Monitoring Plug-in for Check Point Firewall also enables enterprise-wide configuration comparisons of Check Point Firewall instances, allowing administrators to quickly and easily pinpoint potential differences. This helps to keep systems synchronized and to reduce "configuration drift". In addition, it simplifies investigations into why systems that are presumed to be identical, are behaving differently.

Centralize All of the Monitoring Information in a Single Console

The System Monitoring Plug-in for Check Point Firewall provides administrators managing Oracle systems and Check Point Firewalls with a consolidated view of the entire enterprise, enabling them to monitor and manage all of their components from a central place. Having such an integrated tool reduces the total cost of ownership by eliminating the need to manually compile critical information from several different tools, thus streamlining the correlation of availability and performance problems across the entire set of IT components. In addition, the System Monitoring Plug-in for Check Point Firewall complements Grid Control's existing plug-in support for Windows, Unix and Linux systems (requires licensing of System Monitoring Plug-in for Hosts), providing administrators with more depth and greater ability to view Check Point Firewall operations directly in the context of operating system activity.

Enhance Service Modeling and Perform Comprehensive Root Cause Analysis

Grid Control's Service Level Management functionality provides a comprehensive monitoring solution that helps IT organizations achieve high availability, performance, and optimized service levels for their business services. Administrators can monitor services from the end-users' perspective using service tests or synthetic transactions, model relationships between services and underlying IT components, diagnose root cause of service failure, and report on achieved service levels.

The System Monitoring Plug-in for Check Point Firewall enables IT organizations running applications on top of Oracle and Check Point Firewall to derive greater value from Grid Control's Service Level Management features in a number of ways:

- **Enhanced Service Modeling**: map relationships between services and the Check Point Firewall instances that they rely on.
- **Complete Service Topology:** include Check Point Firewall instances as part of the topology view of a service.
- **Comprehensive Root Cause Analysis**: identify or exclude Check Point Firewall as the root cause of service failure.

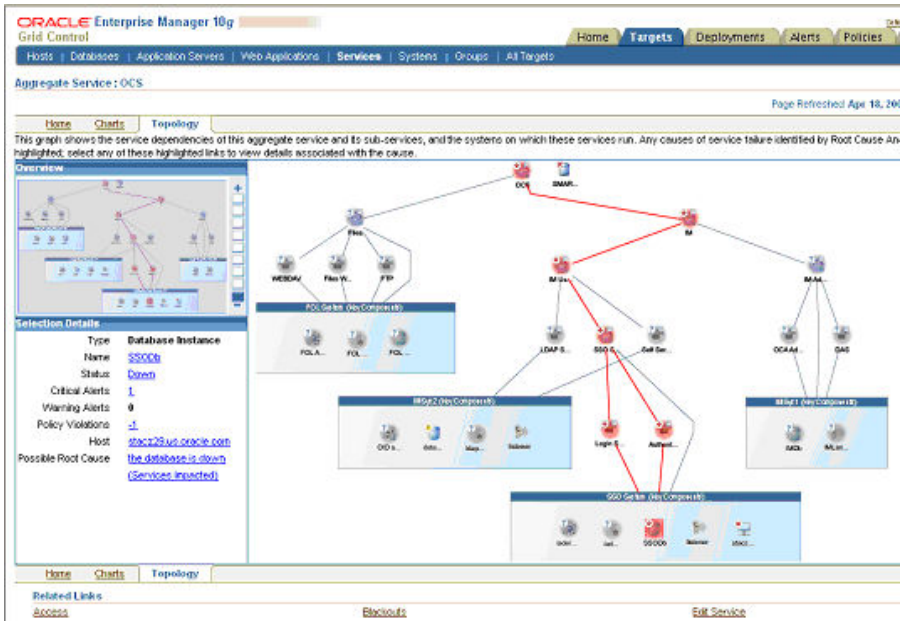

Figure 2. Shows service topology, with a visual indication of the root cause of service failure.

Oracle Grid Control Delivers Unparalleled Monitoring of the Oracle Grid Environment

Oracle Grid Control is simply the most complete and robust solution for managing Oracle environments, providing the richest and most comprehensive monitoring and management for the Oracle components – from Oracle Database instances to Oracle Real Application Clusters to Oracle Application Server Farms and Clusters. In addition, to support the wide variety of applications built on Oracle, Grid Control continues to expand its monitoring scope by offering management plug-ins for non-Oracle components, such as third-party

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databases, third-party middleware, storage, and network devices – thus providing Oracle customers a single integrated monitoring solution for any application built on Oracle.

The System Monitoring Plug-in for Check Point Firewall is integrated with the following Oracle Management applications:

- Management Packs for Database
  - Tuning Pack
  - Diagnostics Pack
  - Configuration Pack
  - Change Management Pack
- Management Packs for Application Server
  - Diagnostics Pack
  - Configuration Pack
- Stand Alone Management Packs
  - Service Level Management Pack
  - Configuration Management Pack for Non-Oracle Systems
  - Provisioning Pack
- Management Plug-ins
  - System Monitoring Plug-in for Hosts
  - System Monitoring Plug-in for Non-Oracle Databases
  - System Monitoring Plug-in for Non-Oracle Middleware
  - System Monitoring Plug-in for Network Devices
  - System Monitoring Plug-in for Storage

Management Connectors

Detailed information on these products can be located at www.oracle.com/em.

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