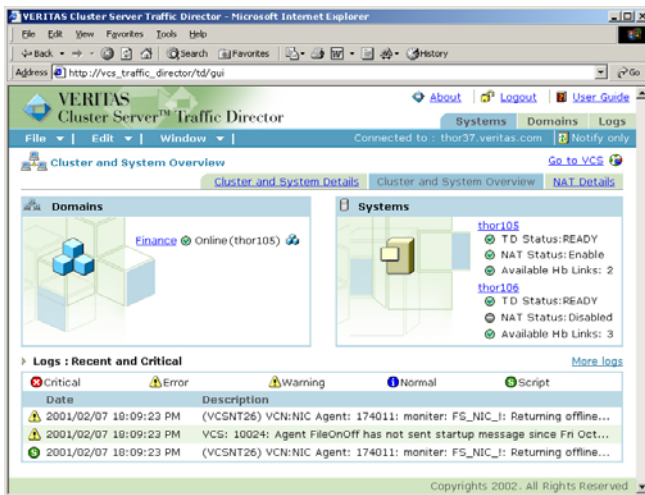


## VERITAS Cluster Server™ Traffic Director

### THE TRAFFIC MANAGEMENT HIGH AVAILABILITY SOLUTION

#### KEY BENEFITS

- Provides multi-layer high availability at the transaction and application server layers of the data center
- Protects against Denial of Service attacks
- Complements the availability provided by VERITAS Cluster Server at the back-end
- Replicates connection and session information to eliminate single point of failure
- Snaps into the VERITAS Cluster Server framework



*VERITAS Cluster Server Traffic Director summary page. Manage web traffic from a single, intuitive interface.*

#### VERITAS CLUSTER SERVER™ TRAFFIC DIRECTOR

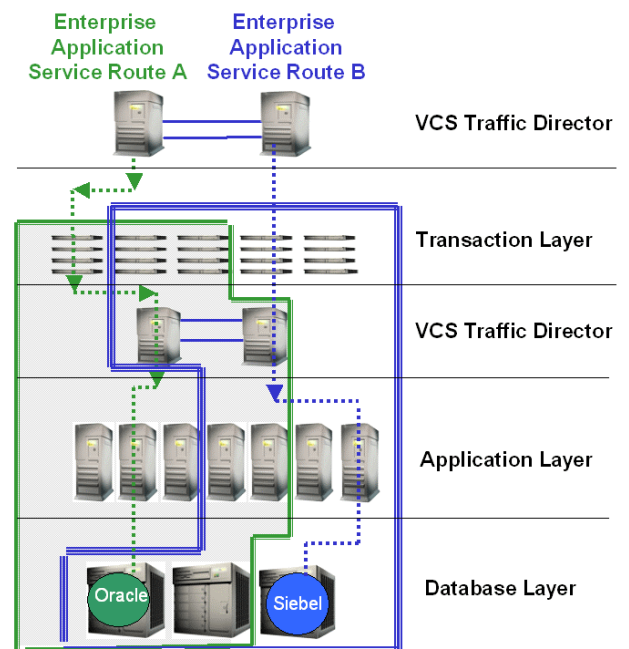
The rapid growth of the Internet and e-commerce is placing growing demands on data centers and IT infrastructures. As additional servers are added to handle growing requests for data, it becomes increasingly difficult to balance load across multiple applications, integrate with back-end clustering solutions, and manage the infrastructure efficiently.

These problems can be solved with the help of VERITAS Cluster Server (VCS) Traffic Director. VCS Traffic Director is a specialized load-balancing cluster, which continuously monitors incoming IP requests for service. As a new option to VERITAS Cluster Server, it provides high availability at

the transaction and application layers of a data center. VCS Traffic Director intelligently balances the load of user traffic across TCP/IP and UDP/IP ports to multiple back-end servers. Through front-end and back-end policies, VCS Traffic Director can target incoming data traffic to specific clusters, server groups, and application services.

#### PRODUCT HIGHLIGHTS

**Highly Available** —VCS Traffic Director runs in a two-node, clustered environment in order to provide a highly available traffic management solution. All connection and session information is replicated across both nodes. Each VCS Traffic Director node may also act as standby for the other. In case of failure to one VCS Traffic Director node, the other VCS Traffic Director node resumes operation while client access to the data goes unnoticed. Both VCS Traffic Director nodes can also be deployed in an active-active configuration. In this case, both VCS Traffic Director nodes can host one or more services and each node may act as a backup node for the other.



*A user can virtualize an application service by creating application domains based on application type.*

**Multi-layer Virtualization - Failure Protection Throughout the Datacenter** — By setting appropriate virtual IP (VIP), ports, and rules, VCS Traffic Director can create a virtual domain, or an application service route, within the data center which optimizes

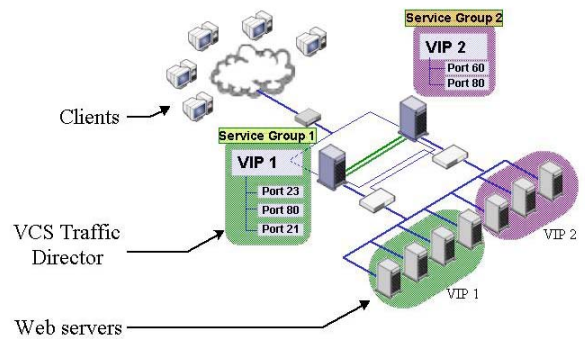
data flow and provides high availability to both applications and end users.

With load balancing from VCS Traffic Director, and workload management through VCS, traffic throughout the data center can reach optimum efficiency levels and provide continuous data availability.

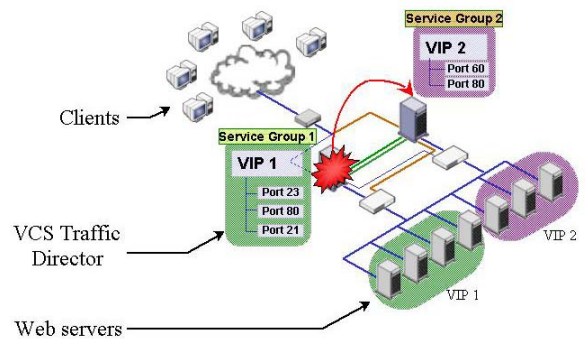
**Multiple Load Balancing Policies** — VCS Traffic Director allows a user to choose from many standard load-balancing policies. Virtual IP (VIP) allows connections to be load balanced based on the VIP (client's destination IP address). A VIP can be configured with an unlimited number of TCP/UDP ports. In addition to load balancing at the VIP and port level, VCS Traffic Director can load balance based on content. One application of this feature includes load balancing based on a URL pattern for the HTTP protocol. Ports are defined with rules that specify a URL pattern and a server group.

**Multiple Load Balancing Algorithms** — Load balancing is accomplished by selectively forwarding each client's connection requests to one of a group of servers chosen based on a user-defined algorithm. VCS Traffic Director supports four different server selection algorithms: Round Robin, Weighted Round Robin (server processing capability), Least Connections, and Weighted Least Connections (processing and connection capacity).

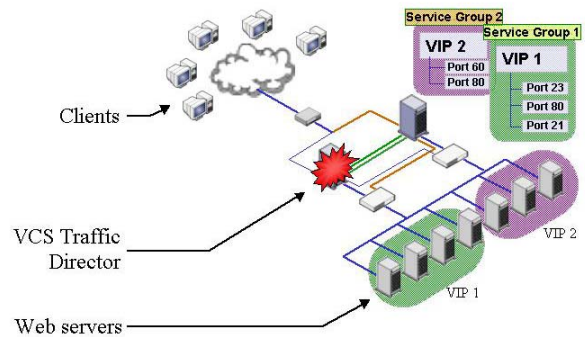
**Simplified Management** — Through the intuitive Web-based console, monitoring network traffic across an entire site or worldwide is a click away. You can see the status of all the services in your domain at a single glance – with a one-page overview of your status, and everything related to that domain. If the data centers include multiple VCS Traffic Director nodes and VCS clusters, either at your local site or worldwide, administering them from a single, web-based management application is easy via VERITAS Global Cluster Manager (GCM). For security purposes, individual username and password-based authentication is required for access through the web-based GUI.



*VCS Traffic Director in a highly available 2-node, clustered environment, managing two distinct service groups.*



*When a node fails, services are automatically transferred to the other node within the VCS Traffic Director cluster. The end user experiences no perceived downtime.*



*The surviving node resumes traffic management activities for both service groups, thereby ensuring service access for the clients.*

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