



Labris™ Load Balancer

Labris Load Balancer is an appliance to provide load balancing in the application level. It serves for the aims of load balancing, high availability, life checking purposes of a system. System means several number of computers and software for a common purpose.



How Does LB work?

Labris LB software gets the request for the protocol on a defined port. The request is redirected to farm member servers according to several policies. In typical configuration, responses of members are sent to the requester through load balancer software as gateway. In several other configurations, tunneling and direct response are possible.

Standart Donanım

- 3x10/100 Mbps
- Power Led
- Hard Disk Led
- Network Led
- Konsol Port

You can use several schedulers for redirection. Some of these are, round robin, least connected, weighted round robin, weighted least connected, destination hash. Also, framework allows to plugin your own scheduler.

Components

- Load Balancing Code
- Management Interface Code

For whom?

- Any service provider that has several machines for the same job and need load balancing over these. Such as, web serving, proxy serving etc.
- Any service provider that has several machines and wants high availability in case of a failure in one of them.

For example:

Web Portal Farms,
Student Information Systems,
Mail Server Farms,
Proxy Cache Farms

Labris LB is designed to work over any network that IP works over.



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Scheduling - Reliability

Health and Integrity Checking

The system automatically checks your farm members consistently and if one fails, it takes this one out of the farm and continues with the ones left behind.

This detection can be made in several ways. While one can use ordinary TCP connect, one can use more sophisticated http hashing to be sure about the content of the member. So, If a member is hacked -integrity is broken- and the page is changed, you can take it out of the farm by this way.

Also, the system allows any non-standard health and integrity checking plugins embedded.

Scheduling

You can use several ways to schedule and redirect request to the members. Some of these ways are:

- Round Robin: Randomly redirect request
- Weighted Round Robin: Randomly redirect request while weights given by admin in mind
- Least Connected: The system redirects requests to least connected member
- Weighted Least Connected: The system redirects requests to least connected member while weights in mind

Failover

Also, two or more load balancers can be used in a high available manner by using industry standard VRRP protocol. So, if one of the load balancers is down, the other one can take the mission.

Features

- Dynamically adding or removing members from the farm
- Stateful Redirection for http like protocols (connection persistence)
- VRRP support for clustering
- SNMP support for monitoring
- GUI based management and monitoring
- Support for several number of farms on the same load balancer device
- Working modes: NAT(like Cisco), Direct Routing(like IBM NetDispatcher), Tunneling
- In tunneling mode can redirect to members which are not in the same network