ABSTRACT

Redundant System Firewall, a firewall system consisting of two or more firewalls

that work simultaneously to form a firewall that is redundant. Replace each other if one

system can not provide services that should be executed. The use of a single firewall is

vulnerable to a network has many weaknesses, among them are prone to hackers who

could take advantage of the weaknesses of the hardware and firewall configuration that can

cause the *firewall* does not function properly. *Redundant* systems *firewall* configuration

contains two or more *firewalls* that work simultaneously, forming a transparent system of

firewalls, if there is a firewall that does not work, then the other firewall to replace its

function.

Redundant Firewall Implementation System will help the performance of the

network system, strengthen the protection of internal networks to the global Internet

network that is vulnerable to intruders. This system uses Virtual IP technology where one

or more hosts in the configured *firewall* will be a working IP address to *Virtual* address.

In the implementation of *Redundant Firewall* systems, have been tested on types of

attacks, types of DDoS attacks (Distributed Denial of Service) is one type of attacks that

exploit the system where the system will be sent in the request very large number, the

system can not handle the request will not be up system resources so that the whole system

performance will be disrupted.

Implementation results show that the type of DDoS attacks (ICMP Flood, UDP

Flood dan TCP/SYN Flood) can cause system Redundant Firewall having failover,

Firewall Master can not handle all requests from users, Firewall Slave which will replace

the work function of the firewall Master.

Keyword: Firewall, Redundant, Virtual IP

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