

# EZEE

## LOADBALANCER

Deployment Options V2.07



## Introduction

Many organizations rely on the Amazier Load Balancers to scale their IT infrastructure by distributing the incoming traffic among multiple, physical, or virtual servers. The Ezee Load Balancer can load balance a wide variety of servers such as Web servers, database servers, email servers, DNS servers, streaming media servers, and even the servers hosting VoIP applications.

### Deployment Options

The Amazier Ezee Load Balancer can be deployed in the network multiple modes based on the requirements of the network and the application to be load balanced.

The deployment modes supported by the Amazier Ezee Load Balancer are:

**Direct server Return** is an option that works in parallel with Route Path and Bridge Path modes of deployment. In this mode, requests come through the WAN interface of the Amazier Ezee Load Balancer and are handed off directly to the real servers via the WAN port, while the servers respond directly to the request through their own interfaces. This implementation requires the use of a Loopback adapter placed on the load balanced servers.

### Monitoring specific services Deployed on the server:

When a load balancer checks for the health of a server, it is not sufficient to only check whether the server is reachable via a ping type of test. It is important to determine whether the actual service deployed on that machine is responding or not.

For example, while distributing traffic to DNS servers, it is important to check if each server is responding to DNS queries. The Amazier Ezee Load Balancer provides multiple server monitors like the CPU monitor, RAM monitor, and HTTP, TCP XML monitor to check that the actual services that are being load balanced.

### Deployment Considerations

The type of application or service to be load balanced determines the deployment mode of the Amazier Load Balancer. Some of the basic considerations are discussed here.

**Web servers / Application servers / Database servers:** Here the connection is mostly initiated from the clients and these servers process the incoming request and return with the response. The Route Path mode is ideally suited for these situations.

**Email servers:** While email servers can be load balanced by specifying multiple email servers in the DNS, the recommended approach is to use a load balancer with adaptive scheduling to ensure speedy delivery of email, while reducing the exposure of IP address to spammers. In this case the clients establish the connections to the email servers to send emails to it, while the email server establishes the connection to send out or forward the emails.

**Networking services:** In case infrastructure services such as DNS need to be load balanced, the Amazier Load Balancer can be deployed in the Route Path mode, as DNS servers are queried for information and they do not establish a connection from their side. In case the DNS servers are configured to do zone transfers, then static routes on the Amazier Ezee Load Balancer would have to be configured so that the DNS servers may reach out to the other DNS servers.

**streaming Media Applications:** For scaling streaming media within the content delivery infrastructure, the preferred mode of deployment is Route Path in combination with Direct Server Return setup, which distributes traffic to the servers hosting the streaming content. Due to the Direct Server Return setup, the server will send media content directly to the client, bypassing the Amazier Ezee Load Balancer, thus optimizing the appliance to handle more incoming traffic.

**Voice Over IP (VoIP) Applications:** For most of the VoIP applications a Route Path deployment is recommended. VoIP applications normally utilize TCP protocol for control channel, while the actual voice data is sent via the UDP protocol. The Amazier Ezee Load Balancer supports both these protocols and can be utilized to load balance VoIP connections.

**For More Information,**

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