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# Asterisk @ Large

## The carrier environment

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# Introduction

- Define hardware & Software required
- Overview the basics of Asterisk load balancing
- Q/A Session at the end of the talk.

# Agenda

- Hardware v/s Software Solutions
- The do's and don'ts of load balancing
- Making asterisk load balance
- Performance tweaks and tuning
- Q/A Time

# Overview

- Load balancing is it for you?
- What elements are needed to create a successful system.
- How can a clustered environment help your business be successful.
- Over the next few minutes we will see how all the pieces come together.

# Hardware & Software

- Hardware Load Balancers
  - Cisco Loadbalancers
  - F5
- Software Load Balancers
  - SER ( <http://www.openser.org> )
  - YATE ( <http://yate.null.ro> )
- Media Gateways
  - Asterisk ( <http://www.asterisk.org> )
  - Freeswitch ( <http://www.freeswitch.org> )
  - Cisco Access Server Series

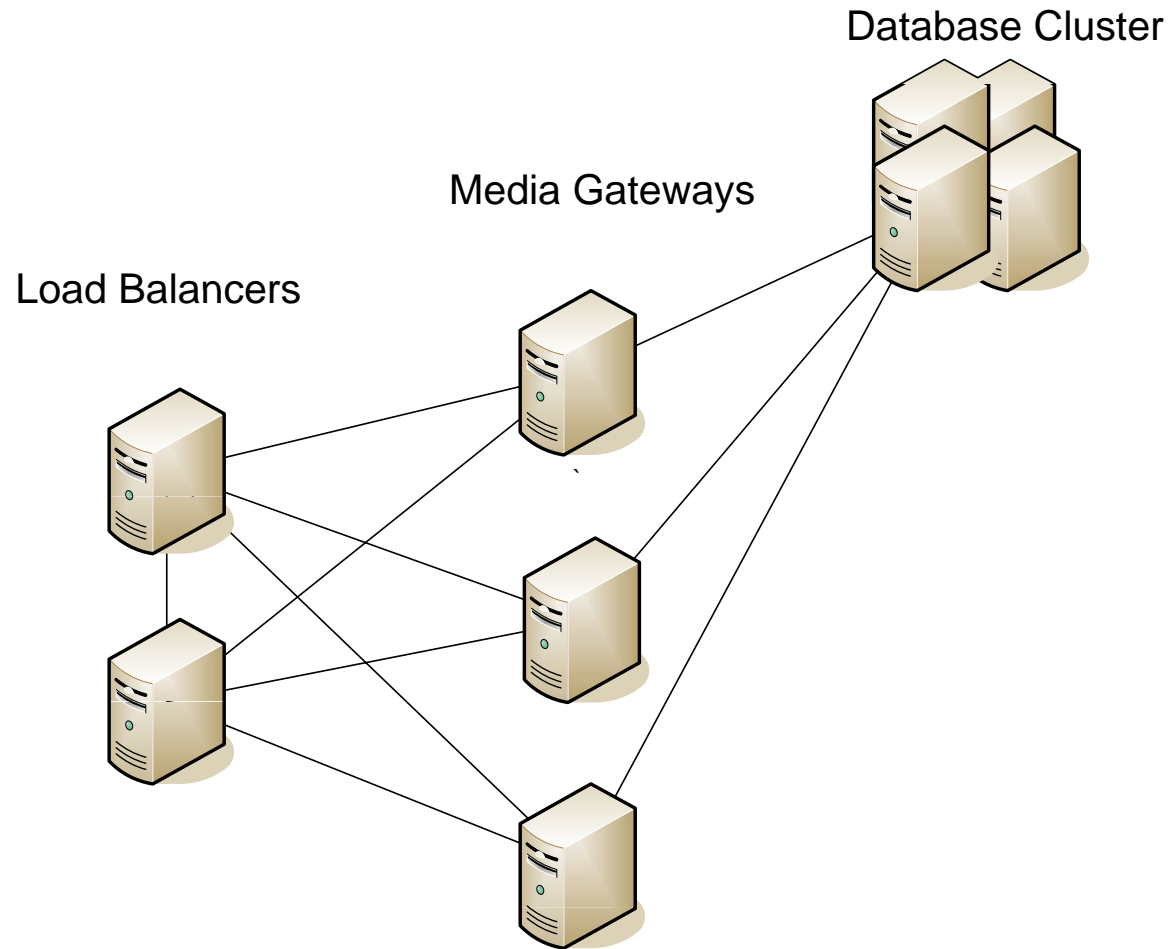
# Do's and Don'ts

- Do's
  - Thoroughly research your requirements for your project
  - Plan, Plan, Plan Can't stress this one enough
  - Consult with experienced professional (if needed)
  - Learn from mistakes
- Don'ts
  - Note to self.. I couldn't think of any 😊

# Making a Load Balanced Solution

- Combine
  - SER or Yate
  - Heartbeat Solution
  - Asterisk or Freeswitch
  - MySQL
  - PBX Freeware ( <http://www.pbxfreeware.org> )
    - res\_config\_curl
  - Custom coding.
- Mix vigorously and you will have a solid solution

# Making a Load Balanced Solution cont.



# Performance & Tuning

- MySQL Optimization
- Asterisk Optimization
- Network Optimization
- Kernel Optimization

Question & Answer Time