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MONDAY, JULY 16, 2007

MySQL 5 High Availability with DRBD 8 and Heartbeat 2

Introduction

It's 2 AM Saturday and the phone rings. You thought you were going to have a long holiday weekend. You've been informed by the NOC that there's no connection to the database server, and could you come down to see what's wrong with it. Remote access won't save you, there's no response at all from the server. We've all been there during our careers, and there's technology freely available to save your sanity, and allow you to take that long holiday weekend. Creating a MySQL high availability cluster using Distributed Replicated Block Device, DRBD and Heartbeat will save you from heading back to work at 2 AM.

During [MySQL Conference 2007](#), I attended [Storage Replication with DRBD: The Next Big Thing in Cluster Storage Management](#), which was very informative, but it left me asking how do I implement such a system?

In this article, we're going to go through the entire process of installing, configuring and testing DRBD, Heartbeat and MySQL running in a 2 node cluster environment. This will be a bare bones configuration, best practices and security will take a back seat while we learn how all the different pieces work together.

Lets get started.

Requirements

You should be very comfortable with VMware Server, installing and configuring CentOS or Redhat, and MySQL before starting this project.

Create Test Servers

Using VMware server, create a minimal virtual machine with 256MB RAM, 2GB OS drive, and 2GB drive for DRBD use. Call it node0. Install CentOS 4.5 with the following installation options:



ABOUT ME

MARK SCHOONOVER

Mark Schoonover is an Information Systems Manager living near San Diego, California with his wife, three boys, a neurotic cat, and a retired Greyhound. He's experienced as a DBA, system administrator, network engineer and web developer. Lately, he has found a new passion in writing about MySQL, and related Open Source technology. He enjoys Amateur Radio and running marathons. He can also be found coaching youth soccer, and getting yelled at as a referee on the weekends.

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