Day 1

## So... what's Riak?

* Riak 101 - Intro To Riak
* Riak 102 - Basic Anatomy

## How do you get it?

* 102L - How do you get Riak?
  + Hand out EC2 Instances
  + Review download options

## What you get (walk through in lab)

- /usr/bin/riak

- /usr/bin/riak-admin

- /usr/bin/riak-debug

- /etc/riak/app.config

- /etc/riak/vm.args

- /var/log/riak/console.log

- /var/log/riak/error.log

- /var/log/riak/crash.log

- /usr/lib64/riak/ERTS-\*

- /usr/lib64/riak/basho-patches

- /var/lib/riak/

Modify app.config

- view cursory ports, locations, etc

Modify vm.args?

- view cursory perf changes, etc

Start Riak

( if ulimit error, fix, and restart )

- view /var/lib/riak/

riak ping

ps -ax|grep beam.smp

Day 2

Day 3

## Coming together

* Riak 201 - Coming Together

Do eeet!

* Riak 201L - Coming Together Lab

Lunch time? Load gen during lunch?

Review metrics when lunch is over

## Riak is not Open Office

- Riak 104 - It’s a Database

Do eeet!

Performance Tuning

- OS

- Riaknostic

- location of fs/sysctl changes (docs.basho.com)

- group changes and explain why in high level slides

- \*\*PERFORM CHANGES LIVE\*\*

- VM

- vm.args tunings, high level slide of why

- \*\*PERFORM CHANGES LIVE\*\*

- Riak

- app.config tunings, high level slides

- \*\* PERFORM CHANGES LIVE\*\*

Operational Considerations

- AAE

- disable AAE via erl command?

- Handoff

- perform remove/join, adjust handoff transfer limit?

- Capacity Planning?

- 35% free resources for upgrades/joins, etc

- monitoring thresholds

- Gossip? ( view in graphs )

MDC Replication

- Realtime

- Fullsync

Setup repl?

- Impact

View impact?

- Errors

Cause Errors and view stats/error logs

- Discuss failure scenarios

Backups

- Rsync

- Snapshots

- Repl

- Data-migrator

- ETL (In future)