Condor High Availability

William C. Benton and Robert H. Rati
Red Hat, Inc.
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Forecast
Forecast

- Master-based high-availability
- High availability via Cluster Suite
- Live demo: configuring Cluster Suite
Master-based high-availability
schedd

master

A

master

B

master

C

SCHEDD.lock
schedd
master
A

master
B

master
C

SCHEDD.lock
Configuring high-availability

# add this to A, B, and C
MASTER_HA_LIST = SCHEDD
# must be on a shared FS
SPOOL = /share/spool
HA_LOCK_URL = file:/share/spool
# prevent preen from removing the lockfile
VALID_SPOOL_FILES = SCHEDD.lock
Configuring high-availability

$ for host in A B C; do
  wallaby add-features-to-node $host \n    HAScheduler
  wallaby add-params-to-node $host \n    SPOOL=/share/spool
done
$ wallaby activate
Master-based HA: advantages

- Minimal, configurable downtime in the case of schedd node failure
- You don’t have to install anything
- It’s easy to configure
High-availability through Cluster Suite
About Cluster Suite

- High-availability technology, distributed as open source and in Red Hat products
- Supports clustering and fencing
- Groups services into logical dependence-based hierarchies
cluster manager

A

B

C

schedd
### Service Groups

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
<th>Autostart</th>
<th>Failover Domain</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA Schedd schedd1</td>
<td>Running on ip-10-28-185-201</td>
<td>✔</td>
<td>Schedd schedd1 Failover Domain</td>
</tr>
<tr>
<td>HA Schedd schedd2</td>
<td>Running on ip-10-28-12-164</td>
<td>✔</td>
<td>Schedd schedd2 Failover Domain</td>
</tr>
</tbody>
</table>

**Edit service**

- **Service Name**: HA Schedd schedd1
- **Automatically Start This Service**: ✔
- **Run Exclusive**: ☐
- **Failover Domain**: Schedd schedd1 Failover Domain
- **Recovery Policy**: Relocate

**Restart Options**

- **Maximum Number of Restart Failures Before Relocating**:
- **Length of Time in Seconds After Which to Forget a Restart**: 
Live demo
Questions?
Thanks!

{willb,rrati}@redhat.com