Clustering RabbitMQ

Using RabbitMQ we can install rabbitmq on individual servers and then we can create a cluster manually.

The following is a transcript of setting up and manipulating a RabbitMQ cluster across three machines - rabbit1, rabbit2, and rabbit3.

**Starting independent nodes**

Clusters are set up by re-configuring existing RabbitMQ nodes into a cluster configuration. Hence the first step is to start RabbitMQ on all nodes in the normal way:

rabbit1$ rabbitmq-server -detached

rabbit2$ rabbitmq-server -detached

rabbit3$ rabbitmq-server –detached

rabbit1$ rabbitmqctl cluster\_status

Cluster status of node rabbit@rabbit1 ...

[{nodes,[{disc,[rabbit@rabbit1]}]},{running\_nodes,[rabbit@rabbit1]}]

...done.

rabbit2$ rabbitmqctl cluster\_status

Cluster status of node rabbit@rabbit2 ...

[{nodes,[{disc,[rabbit@rabbit2]}]},{running\_nodes,[rabbit@rabbit2]}]

...done.

rabbit3$ rabbitmqctl cluster\_status

Cluster status of node rabbit@rabbit3 ...

[{nodes,[{disc,[rabbit@rabbit3]}]},{running\_nodes,[rabbit@rabbit3]}]

...done.

**Creating the cluster**

In order to link up our three nodes in a cluster, we tell two of the nodes, say rabbit@rabbit2 and rabbit@rabbit3, to join the cluster of the third, say rabbit@rabbit1.

rabbit2$ rabbitmqctl stop\_app

Stopping node rabbit@rabbit2 ...done.

rabbit2$ rabbitmqctl join\_cluster rabbit@rabbit1

Clustering node rabbit@rabbit2 with [rabbit@rabbit1] ...done.

rabbit2$ rabbitmqctl start\_app

Starting node rabbit@rabbit2 ...done.

rabbit3$ rabbitmqctl stop\_app

Stopping node rabbit@rabbit3 ...done.

rabbit3$ rabbitmqctl join\_cluster rabbit@rabbit2

Clustering node rabbit@rabbit3 with rabbit@rabbit2 ...done.

rabbit3$ rabbitmqctl start\_app

Starting node rabbit@rabbit3 ...done.

Check status of cluster now post join command

rabbit1$ rabbitmqctl cluster\_status

Cluster status of node rabbit@rabbit1 ...

[{nodes,[{disc,[rabbit@rabbit1,rabbit@rabbit2,rabbit@rabbit3]}]},

{running\_nodes,[rabbit@rabbit3,rabbit@rabbit2,rabbit@rabbit1]}]

...done.

Stop/Start process for Clustered node of rabbitmq

rabbit3$ rabbitmqctl stop

Stopping and halting node rabbit@rabbit3 ...done.

rabbit3$ rabbitmq-server –detached