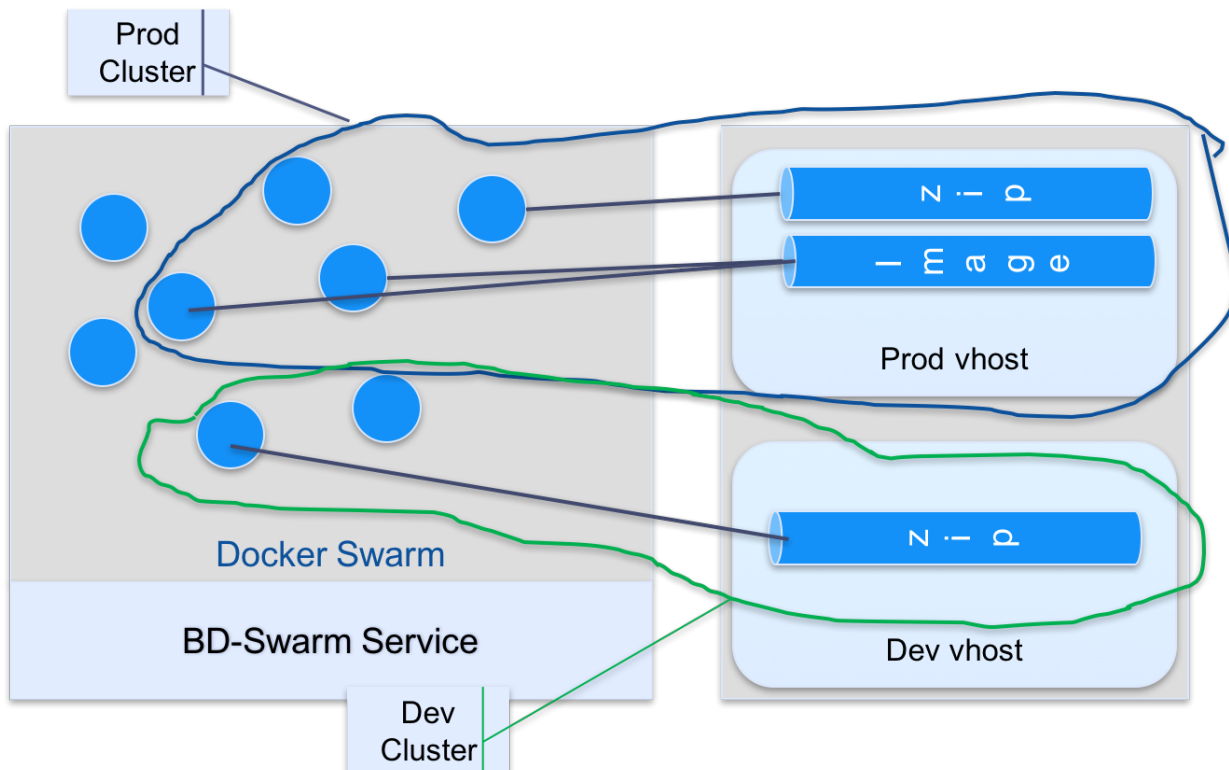


Script Deployment Stories

In order to turn the tools catalog into an application that can administrator scripts running in clusters, we propose a set of changes:

Concepts:

- Tool
 - A basic 3rd party library that is used to develop converters or extractors
- Tool Script
 - A deployable component based on the tool's library
 - Can be a converter or an extractor
 - Can be a Docker image or manually deployed to a VM
- Cluster
 - A place where a Tool Script can be deployed
 - Includes a BD-Status service and a Rabbit vhost
- Service
 - An instance of a script running in the swarm



Deployment

As a Brown Dog Administrator I can...

1. Select a script from the tools catalog to deploy
2. Select a cluster to which the script will be deployed
3. Override default values:
 - a. The script's default queue name
 - i. RABBITMQ_QUEUE environment variable set in the request [[BD-1835](#)]
 - ii. RABBITMQ_URI for the vhost **Exists in Polyglot and Pycrowder2 and 1**
 - iii. Only for extractor [[BD-1837](#)]
 - b. Default min and max instances
 - i. Passed in as labels bd.replicas.min/max [[BD-1771](#)]
 - ii. Memory and CPU resource requirements
 - c.
 - i. Passed in as resource property in request
 - ii. Just limits, not reservations
 - d. ~~Default Service Name~~
 - i. construct as: Cluster name - type - queueName
 - e. Disable automated queue bindings
 - i. RABBITMQ_EXCHANGE - if empty do not bind
 - ii. if not in environment then it will bind to default

4. Receive an error if:
 - a. Queue name is already allocated in the cluster
 - b. Docker image invalid
 - c. Cluster unable to allocate requested resources

Pause Deployed Service

As a Brown Dog Administrator I can...

1. Select a cluster to view deployed services
2. Select a service and pause processing

Delete a Deployed Service

As a Brown Dog Administrator I can...

1. Select a cluster to view deployed services
2. Select a service and delete it and its associated queues

Administration Authorization

As a brown dog tool administrator I can...

1. Query tools and scripts
2. Approve tools
3. Revoke approval

As a brown dog deployment administrator for a cluster I can...

1. Query tools and scripts
2. Deploy a script to a cluster for which I am authorized
3. Pause a service on a cluster for which I am authorized
4. Delete a service on a cluster for which I am authorized

Manually Bind a Service to an Exchange

As a Brown Dog Administrator I can...

1. Select a cluster to view deployed services
2. Select a service to manage
3. See all exchanges in the cluster to which I am authorized to manage
4. See existing bindings (including those generated automatically)
5. Enter a binding between exchange and the service

Manually Delete Binding Between a Service to an Exchange

As a Brown Dog Administrator I can...

1. Select a cluster to view deployed services
2. Select a service to manage
3. See all exchanges in the cluster to which I am authorized to manage
4. See existing bindings (including those generated automatically)
5. Delete a binding