Using policy_name to Define a Role for Nodes

Using policy_name instead of role objects

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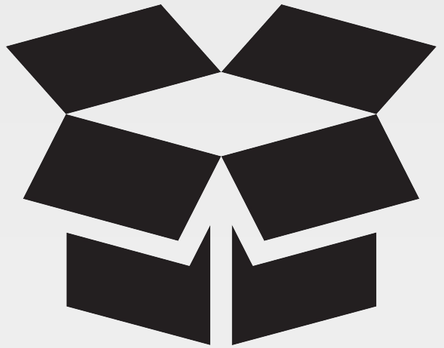
Objectives

After completing this brief module, you should be able to

- Explain how policy_name replaces the legacy Role object
- Use knife search to display nodes



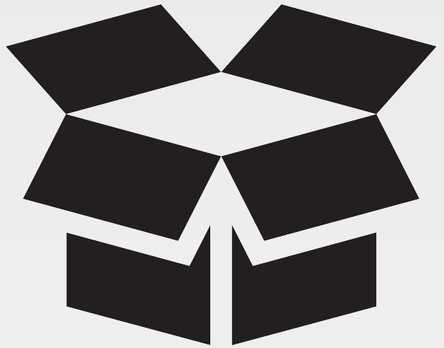
policy_name

Chef users sometimes used ***role*** objects to describe a run list of recipes that are executed on the node and to use for node searches.

Nowadays we use the policy_name for those purposes.

For example, all nodes that possess the **company_web** policy name would be configured in a similar or identical manner.

https://docs.chef.io/roles.html



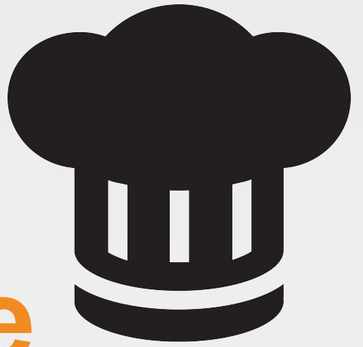
policy_name

When you assign a common policy_name to a group of nodes, each node will receive the same cookbooks (assuming they also utilize the same policy_group).

When these nodes perform a chef-client run, they utilize recipes specified in the Policyfile run list.

https://docs.chef.io/roles.html

EXERCISE



GL: Verify that All Web Nodes Use the Same policy_name

Give your nodes a policy_name to better describe them and so we can configure them in a similar manner.

Objective:

- ❑ Confirm our iis_web node has the same policy_name (company_web) as the apache_web node
- ❑ use `knife search` to list all or specific nodes

company_web Policy Name

In a previous module we set the iis_web node to use the company_web policy name with this command:

```
knife node policy set iis_web prod company_web
```

Now, when we update the cookbooks that are associated to the **company_web** policy name, the nodes that use the **company_web** policy name will be updated as well

We will also be able to easily search for all nodes that have the **company_web** policy name.

Note: In the next module you will learn more about using search.

GL: List Your Nodes

```
$ knife node list
```

```
apache_web
iis_web
lb
```

GL: Searching for All Nodes with knife

```
$ knife search node *:*
```

```
Node Name:   apache_web
Policy Name:  company_web
Policy Group: prod
FQDN:        ip-172-31-57-169.ec2.internal
IP:          34.196.104.17
Run List:    recipe[company_web::default]
Recipes:     company_web::default, apache::default, apache::server
Platform:    centos 7.6.1810
Tags:

Node Name:   iis_web
Policy Name:  company_web
Policy Group: prod
FQDN:        WIN-DQFQCUFHDCP.ec2.internal
IP:          34.195.38.226
Run List:    recipe[company_web::default]
Recipes:     company_web::default, myiis::default, myiis::server
Platform:    windows 6.3.9600
Tags:

Node Name:   lb
Policy Name:  myhaproxy
Policy Group: prod
FQDN:        ip-172-31-22-163.ec2.internal
IP:          34.196.50.77
Run List:    recipe[myhaproxy::default] …
```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GL: Searching for Nodes With a Specific policy_name

```
$ knife search node policy_name:company_web
```

```
Node Name:   apache_web
Policy Name:  company_web
Policy Group: prod
FQDN:        ip-172-31-57-169.ec2.internal
IP:          34.196.104.17
Run List:    recipe[company_web::default]
Recipes:     company_web::default, apache::default, apache::server
Platform:    centos 7.6.1810
Tags:

Node Name:   iis_web
Policy Name:  company_web
Policy Group: prod
FQDN:        WIN-DQFQCUFHDCP.ec2.internal
IP:          34.195.38.226
Run List:    recipe[company_web::default]
Recipes:     company_web::default, myiis::default, myiis::server
Platform:    windows 6.3.9600
```


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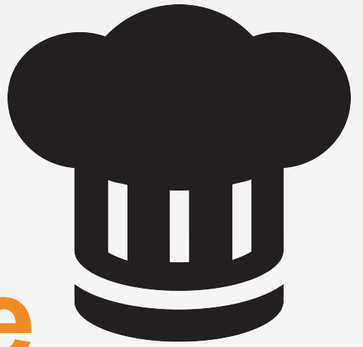

GL: Verify that All Web Nodes Use the Same policy_name

We will give our nodes a role to better describe them and so we can configure them in a similar manner.

Objective:

✔ Confirm our iis_web node has the same policy_name (company_web) as the apache_web node
✔ Use `knife search` to list all or specific nodes

company_web Policy Name

In the next module you will learn more about using search and you will put the company_web policy name to work for you.

Q&A

What questions can we help you answer?

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