



Create an RKE Template

Lab 12



What are you Learning?

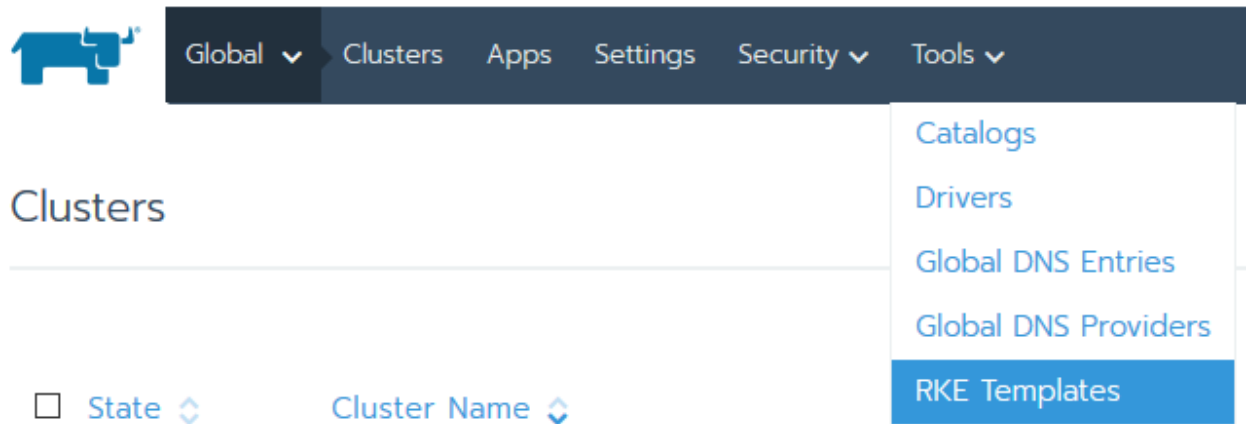
In this lab you'll create an RKE Template that other people in your organization could use to deploy clusters.

Why is it important?

RKE Templates allow teams to standardize and simplify the creation of their Kubernetes clusters. [With the proper permissions](#), an administrator or user can create and [share](#) RKE templates with other users. Templates, like applications [have their own lifecycle](#). Administrators can even [force user to use a template to create new clusters](#). Along with [node templates and infrastructure-as-code tools like Terraform](#), organizations can go a long way to [standardizing and systematizing](#) the provisioning of all of the substrate serving their applications.

Create an RKE Template

1. Navigate to Tools > RKE Templates



2. Click *Add Template*
3. Give the template a name.

Template Name * Add a Description

my-template 🔍

4. You can skip [Share Template](#) as you don't have any users, yet.
5. Review the other options in the template. Any that you adjust will be applied to clusters created with this template, unless [users are allowed to override them](#). You can do this by toggling the override for that setting.

etcd snapshots will occur locally, subsequently the

Allow user override?

Recurring etcd Snapshot Enabled ☐

☒ Yes ☐ No

- a. For example, you may want users to be able to override the FQDN and CA certificate for a cluster they create with your template.

FQDN

CA Certificate

Read from a file

Paste in the CA certificate, starting with -----BEGIN CERTIFICATE-----

6. You can require that a user fill in the settings when creating a cluster, by clicking the *required* argument for each parameter.

Cluster Option Overrides
Parameters and default values that you would like the end consumer to provide data for.

Override Parameter	Type	Default Value	Required
localClusterAuthEndpoint.fqdn	string		<input checked="" type="checkbox"/> <div style="float: right; background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">-</div>
localClusterAuthEndpoint.caCerts	string		<input checked="" type="checkbox"/> <div style="float: right; background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">-</div>

7. Uncheck those settings for now, as we don't want to require them when we use this template in a future lab.
8. Do allow the users to override the Kubernetes version, in a future lab we'll create a cluster using this template, and we'll use the cluster we create to demonstrate upgrades as well. Also, select an older version of Kubernetes.

Kubernetes Version

v1.15.11-rancher1-3

9. Click Create

Testing That it Works

In the RKE Templates section of Rancher, you should see the RKE Template you just created. In a future lab we'll use the template you created.

RKE Templates

Add Template

Disable

<input type="checkbox"/> State	Revision Name	Default Revision	Created
RKE Template: my-template			in a few seconds
<input type="checkbox"/> Active	v1	✓	in a few seconds

References

- RKE Templates - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/>
- Template Creator Permissions - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/creator-permissions/>
- Access and Sharing - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/template-access-and-sharing/>
- Creating and Revising Templates - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/creating-and-revising/>
- Template enforcement - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/enforcement/>
- RKE Templates and Infrastructure - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/rke-templates-and-hardware/>
- Example Scenarios - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/example-scenarios/>
- Overriding Template Settings - <https://rancher.com/docs/rancher/v2.x/en/admin-settings/rke-templates/overrides/>