

Creating a user

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Background

Kubernetes uses certificates to authenticate, especially the kubectl utility.

Procedure

	Steps
1	<p>Generate a certificate on your machine.</p> <pre>openssl genrsa -out tlhaxhan.key 2048</pre>
2	<p>Generate a certificate signing request for the CA to sign.</p> <pre>openssl req -new -key tlhaxhan.key \ -out tlhaxhan.csr \ -subj "/CN=tlhaxhan/O=cka-lab"</pre>
3	<p>Pass the CSR file to the CA server and generate the certificate.</p> <pre>openssl x509 -req -in tlhaxhan.csr \ -CA=/etc/kubernetes/pki/ca.crt \ -CAkey /etc/kubernetes/pki/ca.key \ -CAcreateserial \ -out tlhaxhan.crt -days 365</pre> <p>Copy the CA signed certificate and ship it to the requestor's machine.</p>
4	<p>Create the credential.</p> <pre>kubectl config set-credentials tlhaxhan \ --client-certificate cert/tlhaxhan.crt \ --client-key cert/tlhaxhan.key</pre>
5	<p>Create the context.</p> <pre>kubectl config set-context tlhaxhan-context \ --user tlhaxhan \ --cluster kubernetes</pre>

