Připojení masteru

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Postup připojení masteru

Podmínky

Předpokladem je splnění kroků uvedených v Instalace nódu no nově připojovaném uzlu a existence clusteru podporující více masterů (viz. HA Control Plane).

Všechny příkazy zde uvedené jsou spouštěny z již existujícího (stávajícího) masteru. Pouze "Výsledný příkaz" je volán z nově připojeného nódy.

Vygenerování certifikačního klíče

Pro vygenerování certifikátů a jejich uložení do clusteru slouží příkaz níže.

```
kubeadm init phase upload-certs --upload-certs
```

Vygeneruje bootsrap token. Defaultní validního 2 hodiny. V konzoli je zobrazen vygenerovaný klíč použitý pro generování certifikátů.

```
[upload-certs] Storing the certificates in Secret "kubeadm-certs" in the "kube-system" Namespace [upload-certs] Using certificate key: ee43a13d216a18b7d8ff887151153a26f77d04ae78036ab979824e72557d91d4
```

V tomto případě je pro další postup certifkační klíč (zde ee43a13d216a18b7d8ff887151153a26f77d04ae78036ab979824e72557d91d4).

Tyto certifikáty jsou uloženy jako secrets do namespace kube-system.

kubeadm init certs				
[root@tvlakub12:/home/ex	kdmachacek]# k get secrets -n kul	be-syste	1	
NAME	TYPE	DATA	AGE	
bootstrap-token-v0y3p8	bootstrap.kubernetes.io/token	4	8s	
kubeadm-certs	Opaque	8	8s	

Součástí příkazu je také generování bootstrap tokenu:

Bootstrap token secret

apiVersion: v1
data:
 description: UHJveHkgZm9yIG1hbmFnaW5nIFRUTCBmb3IgdGh1IGt1YmVhZG0tY2VydHMgc2VjcmV0
 expiration: MjAyMy0wNy0yNlQxODozNzozMFo=
 token-id: d3g3c3Zs
 token-secret: aXQ0cXRkeDlyOW5qMTk4Ng==
kind: Secret
metadata:
 creationTimestamp: "2023-07-26T16:37:30Z"
 name: bootstrap-token-wx7sv1
 namespace: kube-system
 resourceVersion: "200807"
 uid: 596e4c56-3cda-4ca2-9a3b-85fleeef7573
type: bootstrap.kubernetes.io/token

Kubeadm certifikáty vygenerované cetifikačním klíčem:

kubeadm token

```
apiVersion: v1
data:
       ca.crt: gJGsIAVjnW7mG+2DI39M1/b/QPWPoDEWFEM0tORf0txkrP/yFtKT6UEshCu/183yg08vXttGSCtPhLj09NXFs/36jr51
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```

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/ \texttt{HUxLAcgH9AiIqpnlx3ax6iXKYef7m+d8Cr57kDbxLP/gJ6o403wVy65FyJme2SRstzQVcXyutXAWkVCff} \\ + \texttt{UxLAcgH9AiIqpnlx3ax6iXKYef7m+d8Cr57kDbxLP/gJ6o403wVy65FyJme2SRstzQVcXyutXAWkVCff} \\ + \texttt{UxLacgH9AiIqpnlx3ax6iXM+d8Cr57kDbxLP/gJ6o403wVy65FyJme2SRstzQVcXyutXAWkVCff} \\ + \texttt{UxLacgH9AiIqpnlx3ax6iXM+d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o403wVy65FyM-d8Cr57kDbxLP/gJ6o40404wWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkWhatAwkW
/MBpTwzTIVzzU+xaVXicuFwZH+UsO6aHuwhqbW02mNiY4IpbQySY/xnSXpfhhOMz1
/NAmJ+gqNXxsnNwLwHtd3jKqiMIedEmWKouy++DLXgmEzImlPI=
kind: Secret
metadata:
        creationTimestamp: "2023-07-26T16:37:30Z"
        name: kubeadm-certs
        namespace: kube-system
         ownerReferences:
               apiVersion: v1
                 blockOwnerDeletion: true
                 controller: true
                kind: Secret
                 name: bootstrap-token-wx7svl
                  uid: 596e4c56-3cda-4ca2-9a3b-85f1eeef7573
         resourceVersion: "200808"
        uid: ba472c02-3575-4090-a4c2-57e5b5c78771
type: Opaque
```

Získání tokenu pro připojení nódu

Vygenerování bootstrap tokenu pro připojení nového nódu do clusteru lze spustit přes příkaz slouží příkaz kubeadm token create spouštěný z již existujícího (stávajícího) masteru. Parametr --print-join-command způsobí rovnou vygenerování celého příkazu pro připojení uzlu (avšak jen jako worker nikoliv jako masterl). Tento příkaz je následně nutno upravit dle kroku níže ("Výsledný příkaz").

```
[root@tvlakub12:/home/exdmachacek]# kubeadm token create --print-join-command kubeadm join 172.18.204.196:5000 --token m54zl1.jjvybpyiwli2g4mv --discovery-token-ca-cert-hash sha256: 9elfcf8bcdlb1362cc0f3d0322e5cd98a80436ad7a6cc54dd9c0b4f9e7042492
```

Bootstraptoken je standardně uložen do clusteru s platností 2 hodiny a lze být získán přes příkaz kubeadm token list

```
[root@tvlakub11:/home/exdmachacek]# kubeadm token list

TOKEN TTL EXPIRES USAGES

DESCRIPTION EXTRA GROUPS
qj9tls.4sn7zcs8eg9v6w0y 23h 2023-08-02T12:11:35Z authentication,signing
<none>
system:bootstrappers:kubeadm:default-node-token
```

Bootstrap token lze také získat ze svého secretu ve formě token-id.token-secret (dekódované z base64). Lze tak použít bootstrap token získaný při předchozím volání kubeadm init phase upload-certs --upload-certs (viz. výše).

Výsledný příkaz

Pro připojení nódu jako master do control plane je však třeba doplnit jej o certifikační klíč získaný výše a parametr --control-plane. Tento příkaz je již volán z nového uzlu, který má být připojen jako nový master.

Kubeadm join

kubeadm join 172.18.204.196:5000 --token rnul9q.31rd05456iu09hhs --discovery-token-ca-cert-hash sha256: 9elfcf8bcdlb1362cc0f3d0322e5cd98a80436ad7a6cc54dd9c0b4f9e7042492 --control-plane --certificate-key ee43a13d216a18b7d8ff887151153a26f77d04ae78036ab979824e72557d91d4

Výsledek

Připojení nódu lze zkontrolovat přes kubectl get nodes

```
[root@tvlakub12:/home/exdmachacek]# kubectl get nodes
NAME STATUS ROLES AGE VERSION
tvlakub12 Ready control-plane 46h v1.27.3
tvlakubernetes11.pmb.cz Ready control-plane 2m55s v1.27.3
```