Visualizando detalhes dos nodes

Agora que já temos o nosso clustes com 03 nodes, nós podemos visualizar os detalhes de cada um deles, e assim entender cada detalhe.

Para ver a descrição do node, basta executar o comando abaixo:

kubectl describe node k8s-01

Name: k8s-01

Roles: control-plane

Labels: beta.kubernetes.io/arch=amd64

beta.kubernetes.io/os=linux

kubernetes.io/arch=amd64

kubernetes.io/hostname=k8s-01

kubernetes.io/os=linux

node-role.kubernetes.io/control-plane=

node.kubernetes.io/exclude-from-external-load-balancers=

Annotations: kubeadm.alpha.kubernetes.io/cri-socket: unix:///var/run/containerd/containerd.sock

node.alpha.kubernetes.io/ttl: 0

volumes.kubernetes.io/controller-managed-attach-detach: true

CreationTimestamp: Fri, 07 Apr 2023 11:52:46 +0000

Taints: node-role.kubernetes.io/control-plane:NoSchedule

Unschedulable: false

Lease:

HolderIdentity: k8s-01
AcquireTime: <unset>

RenewTime: Fri, 07 Apr 2023 12:49:09 +0000

Conditions:

Type Status LastHeartbeatTime LastTransitionTime Reason

Message

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NetworkUnavailable False Fri, 07 Apr 2023 11:57:03 +0000 Fri, 07 Apr 2023 11:57:03 +0000

WeavelsUp Weave pod has set this

MemoryPressure False Fri, 07 Apr 2023 12:48:25 +0000 Fri, 07 Apr 2023 11:52:45 +0000

KubeletHasSufficientMemory kubelet has sufficient memory available

DiskPressure False Fri, 07 Apr 2023 12:48:25 +0000 Fri, 07 Apr 2023 11:52:45 +0000

KubeletHasNoDiskPressure kubelet has no disk pressure

PIDPressure False Fri, 07 Apr 2023 12:48:25 +0000 Fri, 07 Apr 2023 11:52:45 +0000

KubeletHasSufficientPID kubelet has sufficient PID available

Ready True Fri, 07 Apr 2023 12:48:25 +0000 Fri, 07 Apr 2023 11:57:05 +0000

KubeletReady kubelet is posting ready status. AppArmor enabled

Addresses:

InternalIP: 172.31.57.89

Hostname: k8s-01

Capacity:

cpu: 2

ephemeral-storage: 7941576Ki

hugepages-2Mi: 0

memory: 4015088Ki

pods: 110

Allocatable:

cpu: 2

ephemeral-storage: 7318956430

hugepages-2Mi: 0

memory: 3912688Ki

pods: 110

System Info:

Machine ID: c8a6ad1dd24342c48ba303688d3ada1f

System UUID: ec2b271b-8df3-f164-b01c-3b5078a2d15b

Boot ID: 93ae6b0c-13fa-432d-b15a-d3725b6c0e72

Kernel Version: 5.15.0-1031-aws

OS Image: Ubuntu 22.04.2 LTS

Operating System: linux

Architecture: amd64

Container Runtime Version: containerd://1.6.20

Kubelet Version: v1.26.3

Kube-Proxy Version: v1.26.3

PodCIDR: 10.10.0.0/24

PodCIDRs: 10.10.0.0/24

Non-terminated Pods: (6 in total)

Namespace Name CPU Requests CPU Limits Memory Requests

Memory Limits Age

kube-system etcd-k8s-01 100m (5%) 0 (0%) 100Mi (2%) 0 (0%)

56m

kube-system kube-apiserver-k8s-01 250m (12%) 0 (0%) 0 (0%) 0 (0%)

56m

kube-system kube-controller-manager-k8s-01 200m (10%) 0 (0%) 0 (0%) 0 (0%)

56m

kube-system kube-proxy-skpfc 0 (0%) 0 (0%) 0 (0%) 56m

kube-system kube-scheduler-k8s-01 100m (5%) 0 (0%) 0 (0%) 0 (0%)

56m

kube-system weave-net-hks8s 100m (5%) 0 (0%) 0 (0%)

52m

Allocated resources:

(Total limits may be over 100 percent, i.e., overcommitted.)

Resource Requests Limits

cpu 750m (37%) 0 (0%)

memory 100Mi (2%) 0 (0%)

ephemeral-storage 0 (0%) 0 (0%)

hugepages-2Mi 0 (0%) 0 (0%)

Events:

Type Reason Age From Message

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Normal Starting 56m kube-proxy

Normal Starting 56m kubelet Starting kubelet.

Warning InvalidDiskCapacity 56m kubelet invalid capacity 0 on image filesystem

Normal NodeHasSufficientMemory 56m kubelet Node k8s-01 status is now:

NodeHasSufficientMemory

Normal NodeHasNoDiskPressure 56m kubelet Node k8s-01 status is now:

NodeHasNoDiskPressure

Normal NodeHasSufficientPID 56m kubelet Node k8s-01 status is now:

NodeHasSufficientPID

Normal NodeAllocatableEnforced 56m kubelet Updated Node Allocatable limit across pods

Normal RegisteredNode 56m node-controller Node k8s-01 event: Registered Node k8s-01 in

Controller

Normal NodeReady 52m kubelet Node k8s-01 status is now: NodeReady

Na saída do comando acima é possível ver detalhes como o nome do node, o IP interno, o hostname, a capacidade de CPU, memória, armazenamento, pods, etc. Também é possível ver os pods que estão rodando no node, os recursos alocados e os eventos que ocorreram no node.

Caso você queira visualizar detalhes dos outros dois nodes, basta utilizar o comando abaixo:

kubectl get nodes k8s-02 -o wide

kubectl get nodes k8s-03 -o wide

NAME STATUS ROLES AGE VERSION INTERNAL-IP EXTERNAL-IP OS-IMAGE KERNEL-VERSION CONTAINER-RUNTIME

k8s-02 Ready <none> 59m v1.26.3 172.31.59.34 <none> Ubuntu 22.04.2 LTS 5.15.0-1031-aws containerd://1.6.20

Estou utilizando o parâmetro -o wide para que o comando retorne mais detalhes sobre o node, como o IP externo e o IP interno.

E claro, você ainda pode utilizar o comando kubectl describe node para visualizar mais detalhes dos demais nodes, como fizemos para o node k8s-01.