

1. Initial state: 1 node (Node A) with 5 pods, 1 node (Node B) with 7 pods. coredns runs on both initially.

Pods (5)

Info

< 1 >

Name	Status	Created	IP
health-monitoring-agent-nwv4v	Pending	15 minutes ago	
aws-node-trjfn	Running	15 minutes ago	172.31.144.57
coredns-7864b4f64c-bckp4	Pending	22 minutes ago	
dependencies-nvidia-device-plugin-rldd7	Pending	15 minutes ago	
kube-proxy-tgxl7	Running	15 minutes ago	172.31.144.57

Conditions (4)

Name	Status	Message
MemoryPressure	False	kubelet has sufficient memory available
DiskPressure	False	kubelet has no disk pressure
PIDPressure	False	kubelet has sufficient PID available

Pods (7)

Info

< 1 >

Name	Status	Created	IP
health-monitoring-agent-h2jvv	Pending	16 minutes ago	
aws-node-hjf95	Running	16 minutes ago	172.31.155.171
coredns-7864b4f64c-ngvmr	Pending	23 minutes ago	
dependencies-mpi-operator-6477b45574-g24l7	Pending	21 minutes ago	
dependencies-nvidia-device-plugin-kbwgg	Pending	16 minutes ago	
kube-proxy-bd5gk	Running	16 minutes ago	172.31.155.171
dependencies-training-operators-f79dd5c96-fhkfm	Pending	21 minutes ago	

Conditions (4)

1. Taint and label node A

Taints (1)		
Q Filter by key, value or effect		
Key	Value	Effect
sagemaker.amazonaws.com/RestrictedNode	Worker	NoSchedule

Labels (17)	
< 1 2 3 4 >	
Key	Value
sagemaker.amazonaws.com/compute-type	hyperpod
sagemaker.amazonaws.com/instance-group-name	
sagemaker.amazonaws.com/instance-group-type	Restricted
sagemaker.amazonaws.com/node-health-status	Schedulable
topology.k8s.aws/zone-id	usw2-az2

Annotations (3)	
< 1 >	
Key	Value
alpha.kubernetes.io/provided-node-ip	172.31.144.57
node.alpha.kubernetes.io/ttl	0
volumes.kubernetes.io/controller-managed-attach-detach	true

3. Node A no longer has coredns running because it does not tolerate the new taint. Node B now has 8 total pods, 2 of which are coredns because the original Deployment spec had `replicas: 2`

Pods (4) Info			
Name	Status	Created	IP
health-monitoring-agent-nwv4v	Pending	20 minutes ago	
aws-node-trjfn	Running	20 minutes ago	172.31.144.57
dependencies-nvidia-device-plugin-rldd7	Pending	20 minutes ago	
kube-proxy-tgxl7	Running	20 minutes ago	172.31.144.57

Conditions (4)		
Name	Status	Message
MemoryPressure	False	kubelet has sufficient memory available
DiskPressure	False	kubelet has no disk pressure
PIDPressure	False	kubelet has sufficient PID available
Ready	True	kubelet is posting ready status

Pods (8) Info			
Name	Status	Created	IP
health-monitoring-agent-h2jvv	Pending	22 minutes ago	
aws-node-hjf95	Running	22 minutes ago	172.31.155.171
coredns-7864b4f64c-cg96q	Pending	2 minutes ago	
coredns-7864b4f64c-ngvmr	Pending	29 minutes ago	
dependencies-mpi-operator-6477b45574-g24l7	Pending	27 minutes ago	
dependencies-nvidia-device-plugin-kbwgg	Pending	22 minutes ago	
kube-proxy-bd5gk	Running	22 minutes ago	172.31.155.171
dependencies-training-operators-f79dd5c96-fhkfm	Pending	27 minutes ago	

Conditions (4)		
Name	Status	Message

4. After running installation script, Node A now has all 9 pods, including 2 coredns ones. Node B still has 8 total pods.

Pods (9) [Info](#)

< 1 >

Name	Status	Created	IP
health-monitoring-agent-nwv4v	 Pending	21 minutes ago	
aws-node-trjfn	 Running	21 minutes ago	172.31.144.57
dependencies-nvidia-device-plugin-rldd7	 Pending	21 minutes ago	
kube-proxy-tgxl7	 Running	21 minutes ago	172.31.144.57
rig-coredns-7f6d5cd96d-2wxnx	 Pending	a few seconds ago	
rig-coredns-7f6d5cd96d-tzjd4	 Pending	a few seconds ago	
rig-dependencies-mpi-operator-775f985c4c-942vh	 Pending	a few seconds ago	
rig-dependencies-nvidia-device-plugin-d2c82	 Pending	a few seconds ago	
rig-dependencies-training-operators-65f9bddf58-54lkn	 Pending	a few seconds ago	

Conditions (4)

Name	Status	Message
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Pods (8) [Info](#)

< 1 >

Name	Status	Created	IP
health-monitoring-agent-h2jvv	 Pending	20 minutes ago	
aws-node-hjtf95	 Running	20 minutes ago	172.31.155.171
coredns-7864b4f64c-cg96q	 Pending	a few seconds ago	
coredns-7864b4f64c-ngvmr	 Pending	27 minutes ago	
dependencies-mpi-operator-6477b45574-g24i7	 Pending	25 minutes ago	
dependencies-nvidia-device-plugin-kbwgg	 Pending	20 minutes ago	
kube-proxy-bd5gk	 Running	20 minutes ago	172.31.155.171
dependencies-training-operators-f79dd5c96-fhkfm	 Pending	25 minutes ago	

Conditions (4)

Name	Status	Message
MemoryPressure	False	kubelet has sufficient memory available