

조 훈 (Hoon Jo) - CCIE DC, CKA&D, VCIX-NV6, RHCE, GCPx4



https://github.com/SysNet4Admin



https://app.vagrantup.com/SysNet4Admin

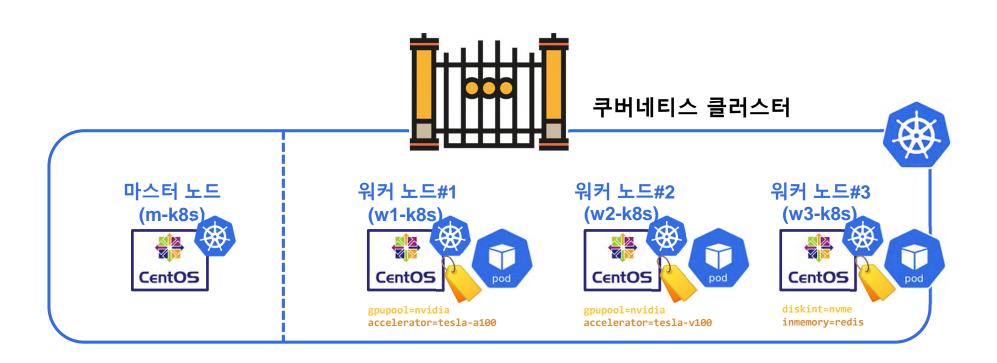


지금도 파드는 균등하게 배포되지 않나요?



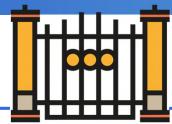
노드 레이블에 따라 파드 배포





기준 파드의 레이블을 보고 파드 배포















전체 파드의 수를 보고 각 레이블 단위로 나누기























노드들의 구분을 위해서 레이블 추가





쿠버네티스 클러스터



topology.kubernetes.io/region=ap-northeast-2
topology.kubernetes.io/zone=ap-northeast-2a



topology.kubernetes.io/region=ap-northeasttopology.kubernetes.io/zone=ap-northeast-2a



topology.kubernetes.io/region=ap-northeasttopology.kubernetes.io/zone=ap-northeast-2a



topology.kubernetes.io/region=ap-northeast-2
topology.kubernetes.io/zone=ap-northeast-2b



topology.kubernetes.io/region=ap-northeast-2
topology.kubernetes.io/zone=ap-northeast-2b

구분된 노드에 따라 파드가 배포됨







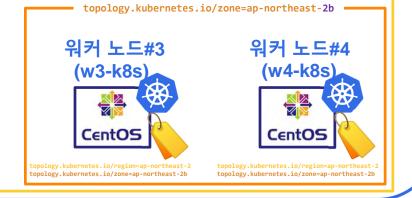












만약 워커 노드#3에 부하가 많다면?







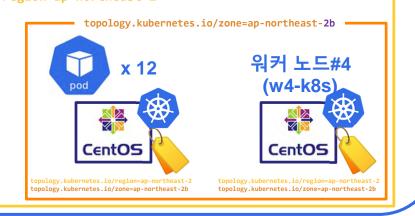










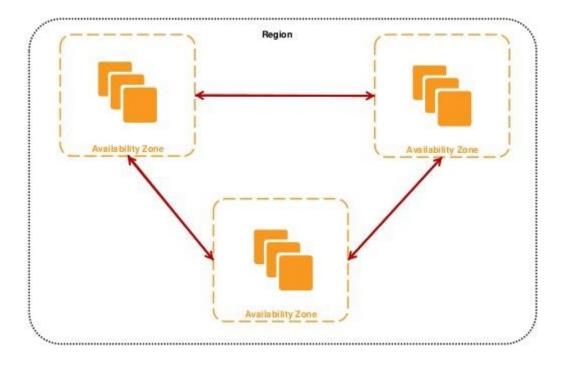


Cloud AZ(Availability Zones / 가용 영역)



배포해야 할 파드들





deploy-topologyspreadconstraints.yaml



```
apiVersion: apps/v1
kind: Deployment
metadata:
labels:
app: deploy-topologyspreadconstraints
name: deploy-topologyspreadconstraints
spec:
replicas: 4
selector:
matchLabels:
app: deploy-topologyspreadconstraints
template:
labels:
app: deploy-topologyspreadconstraints
template:
app: deploy-topologyspreadconstraints
template:
app: deploy-topologyspreadconstraints
spec:
containers:
image: nginx
name: nginx
```

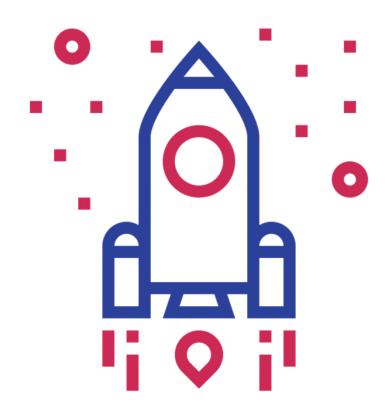


0	20	topologySpreadConstraints:	
	21	- maxSkew: 1	
0	22	topologyKey: topology.kubernetes.io/region	
0	23	whenUnsatisfiable: DoNotS	Schedule
0	24	labelSelector:	
	25	matchLabels:	
	26	app: deploy-topologys	preadconstraints

	27	- maxSkew: 1
9	28	topologyKey: topology.kubernetes.io/zone
П	29	whenUnsatisfiable: DoNotSchedule
	30	labelSelector:
	31	matchLabels:
	32	app: deploy-topologyspreadconstraints

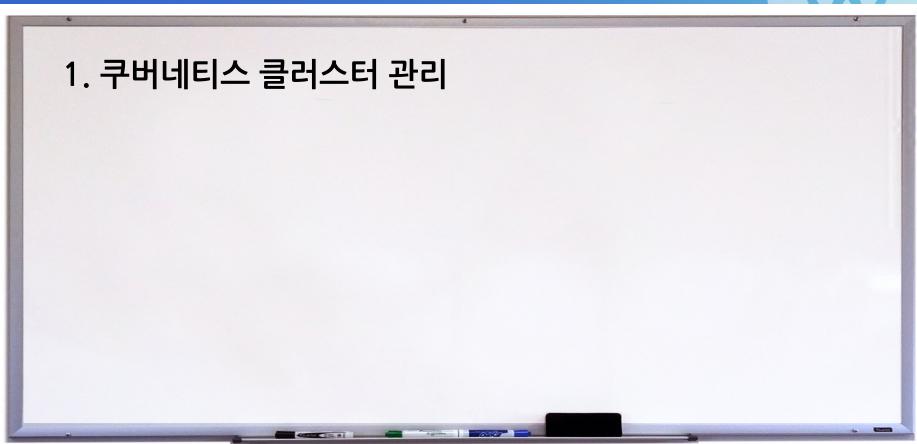
토폴로지 분배 제약 조건 동작 확인





다음 강좌에는...







kubernetes