

СЛЁРМ

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Southbridge

Kubespary

Kubespary



<https://github.com/kubernetes-incubator/kubespary>



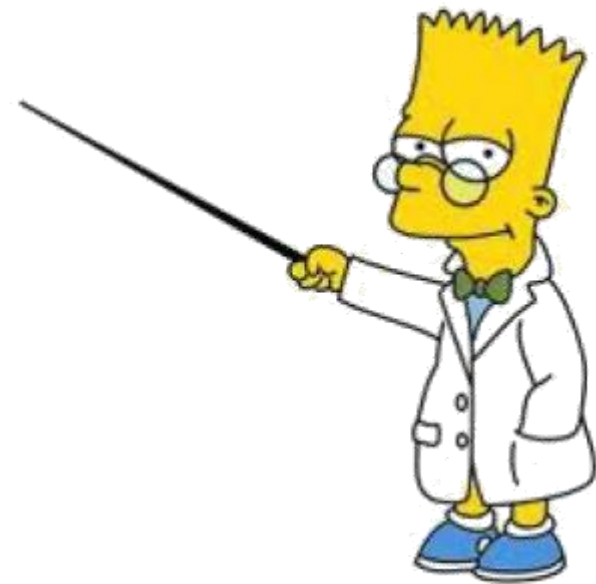
<https://github.com/centosadmin/slurm>

Подготовка серверов



Master – 2 ядра, 4Gb RAM
Ingress – 1 ядро, 2 Gb RAM
Node – 2-4 ядра, 4-8 Gb RAM

Kernel 4.x
Disable swap
Disable firewalld
Локальная сеть между серверами



Установка зависимостей

```
pip install -r requirements.txt
```



Инвентарь

master-1.slurm.io ansible_ssh_host=172.20.100.2 ip=172.20.100.2

**[kube-master]
master-1.slurm.io**

**[etcd]
master-1.slurm.io**

**[kube-node]
node-1.slurm.io
ingress-1.slurm.io**

**[kube-ingress]
ingress-1.slurm.io**

**[k8s-cluster:children]
kube-node
kube-master**



All.yml

etcd_multiaccess: true

kubelet_load_modules: true

docker_storage_options: -s overlay2

docker_dns_servers_strict: false

etcd_snapshot_count: "5000"

etcd_ionice: "-c2 -n0"

etcd_memory_limit: 0

kube_read_only_port: 10255

Flannel

flannel_backend_type: "host-gw"

flannel_interface_regexp: '172\\.20\\.100\\.\\d{1,3}'



K8s-cluster.yml

```
kube_api_anonymous_auth: false
kube_oidc_auth: false
kube_basic_auth: false
kube_network_plugin: flannel
kube_service_addresses: 10.0.0.0/16
kube_pods_subnet: 10.100.0.0/16
cluster_name: cluster.local
```

```
kubeconfig_localhost: true
kubectl_localhost: true
kubelet_authentication_token_webhook: true
kubelet_authorization_mode_webhook: true
```



K8s-cluster.yml

```
ingress_nginx_enabled: true
ingress_nginx_host_network: true
ingress_nginx_configmap:
  server-tokens: "False"
  proxy-body-size: "2G"
  proxy-buffer-size: "16k"
  worker-shutdown-timeout: "180"
ingress_nginx_nodeselector:
  node-role.kubernetes.io/ingress: "true"
```



Kube-ingress.yml

```
node_labels:
  node-role.kubernetes.io/ingress: "true"
```


Развертывание кластера

```
ansible-playbook -u student01 \  
-k -i inventory/slurm/hosts.ini \  
-b --diff \  
cluster.yml
```



Доработка напильником



```
kubectl label node ingress-1.slurm.io \
  node-role.kubernetes.io/node-
```

```
kubectl cordon ingress-1.slurm.io
```

Создать сервис ingress-nginx типа ClusterIP