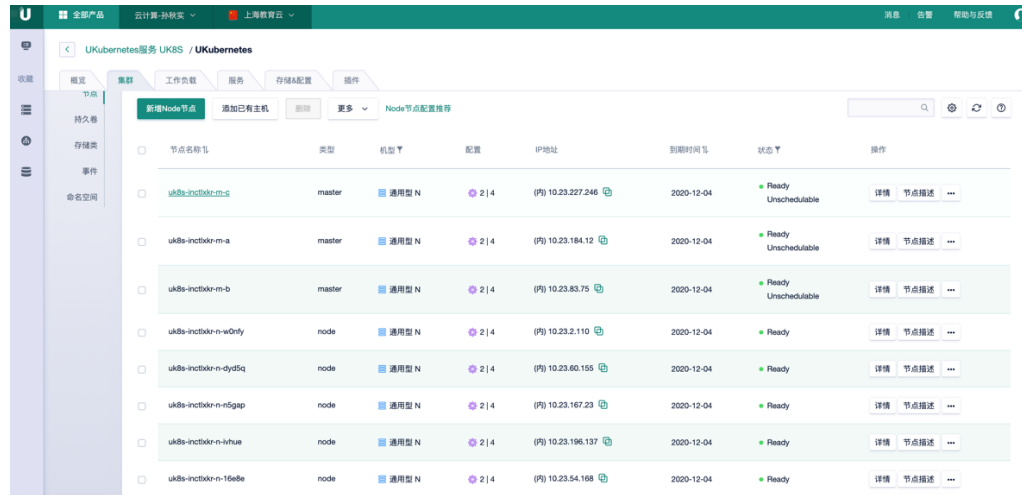


实验八报告

10185501402-孙秋实

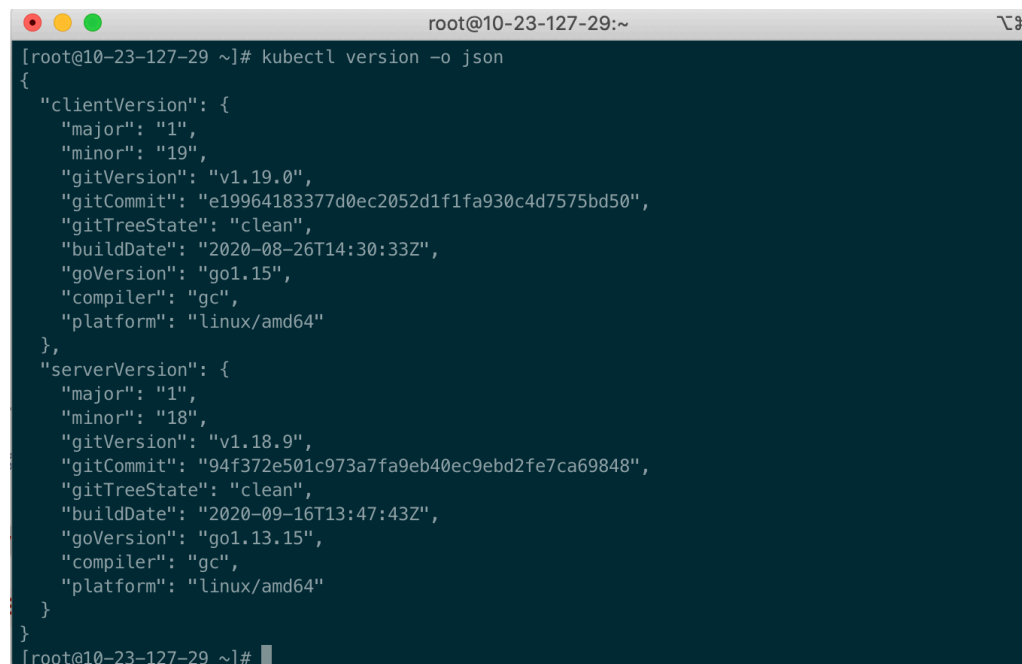
作业 1：



The screenshot shows the UKubernetes console interface. The top navigation bar includes '全部产品', '云计算-孙秋实', and '上海教育云'. The main content area is titled 'UKubernetes服务 UK8S / UKubernetes'. On the left, there is a sidebar with '节点' (Nodes) selected. The main table lists nodes with columns: '节点名称' (Node Name), '类型' (Type), '机型' (Machine Type), '配置' (Configuration), 'IP地址' (IP Address), '到期时间' (Expiration Time), '状态' (Status), and '操作' (Actions). The table contains 9 rows of node information.

节点名称	类型	机型	配置	IP地址	到期时间	状态	操作
uk8s-inctbkn-m-g	master	通用型 N	2 4	(内) 10.23.227.246	2020-12-04	Ready Unschedulable	详情 节点描述
uk8s-inctbkn-m-a	master	通用型 N	2 4	(内) 10.23.184.12	2020-12-04	Ready Unschedulable	详情 节点描述
uk8s-inctbkn-m-b	master	通用型 N	2 4	(内) 10.23.83.75	2020-12-04	Ready Unschedulable	详情 节点描述
uk8s-inctbkn-n-w0rly	node	通用型 N	2 4	(内) 10.23.2.110	2020-12-04	Ready	详情 节点描述
uk8s-inctbkn-n-dy5sq	node	通用型 N	2 4	(内) 10.23.60.155	2020-12-04	Ready	详情 节点描述
uk8s-inctbkn-n-r5gap	node	通用型 N	2 4	(内) 10.23.167.23	2020-12-04	Ready	详情 节点描述
uk8s-inctbkn-n-hhue	node	通用型 N	2 4	(内) 10.23.196.137	2020-12-04	Ready	详情 节点描述
uk8s-inctbkn-n-16e8e	node	通用型 N	2 4	(内) 10.23.54.168	2020-12-04	Ready	详情 节点描述

作业 2：



The screenshot shows a terminal window with the command 'kubectl version -o json' executed. The output is a JSON object containing client and server version information.

```
root@10-23-127-29:~  
[root@10-23-127-29 ~]# kubectl version -o json  
{  
  "clientVersion": {  
    "major": "1",  
    "minor": "19",  
    "gitVersion": "v1.19.0",  
    "gitCommit": "e19964183377d0ec2052d1f1fa930c4d7575bd50",  
    "gitTreeState": "clean",  
    "buildDate": "2020-08-26T14:30:33Z",  
    "goVersion": "go1.15",  
    "compiler": "gc",  
    "platform": "linux/amd64"  
  },  
  "serverVersion": {  
    "major": "1",  
    "minor": "18",  
    "gitVersion": "v1.18.9",  
    "gitCommit": "94f372e501c973a7fa9eb40ec9ebd2fe7ca69848",  
    "gitTreeState": "clean",  
    "buildDate": "2020-09-16T13:47:43Z",  
    "goVersion": "go1.13.15",  
    "compiler": "gc",  
    "platform": "linux/amd64"  
  }  
}
```

作业 3：

```

root@10-23-127-29:~
[root@10-23-127-29 ~]# export POD_NAME=$(kubectl get pods -o go-template --template '{{range .items}}{{.metadata.name}}{{"\n"}}{{end}}')
[root@10-23-127-29 ~]# echo Name of the Pod: $POD_NAME
Name of the Pod: webapp-d69776759-dfg8b
[root@10-23-127-29 ~]# curl http://localhost:8001/api/v1/namespaces/default/pods/$POD_NAME/proxy/
<!DOCTYPE html>
<html lang="en">
<head>

<!-- Basic Page Needs
----->
<meta charset="utf-8">
<title>Docker :)</title>
<meta name="description" content="">
<meta name="author" content="">

<!-- Mobile Specific Metas
----->
<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- FONT
----->
<link href="//fonts.googleapis.com/css?family=Raleway:400,300,600" rel="stylesheet" type="text/css">

<!-- CSS
----->
<link rel="stylesheet" href="css/normalize.css">
<link rel="stylesheet" href="css/skeleton.css">

<!-- Favicon
----->
<link rel="icon" type="image/png" href="images/favicon.png">

</head>
<body>

<!-- Primary Page Layout
----->
<div class="container">
<div class="row">
<div class="one-half column" style="margin-top: 25%">
<h4>Hello Docker!</h4>
<p>This is being served from a <strong>docker</strong> container running Nginx.</p>
</div>
</div>
</div>

<!-- End Document
----->

</body>
</html>
[root@10-23-127-29 ~]#
[root@10-23-127-29 ~]#

```

作业 4：

```

root@10-23-127-29:~
[root@10-23-127-29 ~]# kubectl get pods -o wide
NAME                READY   STATUS    RESTARTS   AGE   IP              NODE               NOMINATED NODE   READINESS GATES
webapp-d69776759-27lm4 1/1     Running   0           19s   10.23.182.33    10.23.196.137      <none>            <none>
webapp-d69776759-cjfqg 1/1     Running   0           19s   10.23.210.238   10.23.196.137      <none>            <none>
webapp-d69776759-dfg8b 1/1     Running   0           5m57s 10.23.136.17    10.23.167.23       <none>            <none>
webapp-d69776759-h9tsh 1/1     Running   0           19s   10.23.233.127   10.23.54.168       <none>            <none>
webapp-d69776759-hps4l 1/1     Running   0           19s   10.23.102.234   10.23.60.155       <none>            <none>
webapp-d69776759-hpsat 1/1     Running   0           19s   10.23.117.151   10.23.54.168       <none>            <none>
webapp-d69776759-nc2rg 1/1     Running   0           19s   10.23.27.169    10.23.167.23       <none>            <none>
webapp-d69776759-p6prf 1/1     Running   0           19s   10.23.153.173   10.23.60.155       <none>            <none>
webapp-d69776759-w8mh9 1/1     Running   0           19s   10.23.90.75     10.23.196.137      <none>            <none>
webapp-d69776759-wxnhg 1/1     Running   0           19s   10.23.62.186    10.23.54.168       <none>            <none>
[root@10-23-127-29 ~]#

```

作业 5：



```

[root@10-23-127-29 ~]# kubectl expose deployment webapp --type=LoadBalancer --port=80
service/webapp exposed
[root@10-23-127-29 ~]# kubectl get services
NAME            TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes      ClusterIP      172.17.0.1       <none>            443/TCP          36m
webapp          LoadBalancer  172.17.136.179   106.75.251.12    80:44521/TCP     10s

```