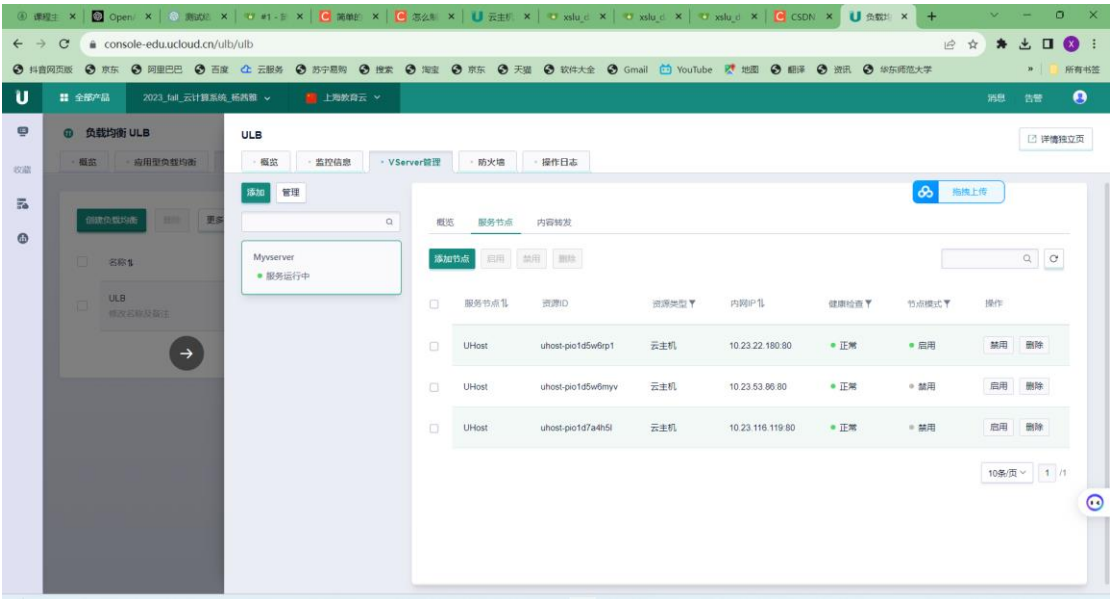


作业 2:



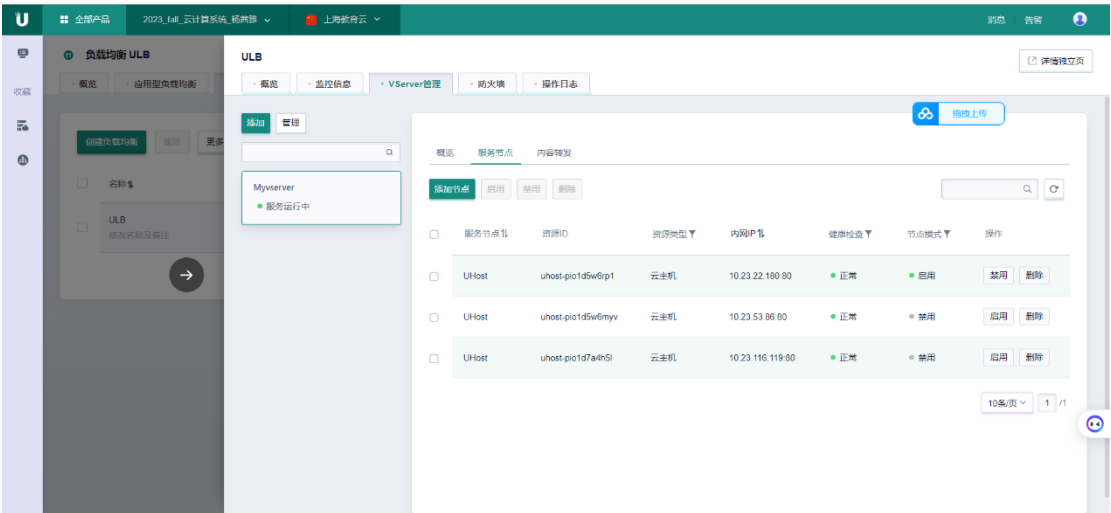
作业 3:

一个节点

Time taken for tests: 29.264 seconds

Requests per second: 341.71

Time per request: 2926.443



```
106.75.217.162-22 - root@10-23-181-75:~ - Xshell 7 (Free for Home/School)
文件(F) 编辑(E) 查看(V) 工具(T) 选项(O) 窗口(W) 帮助(H)
ssh://root@106.75.217.162-22
会话管理器
1 106.75.217.162-22 2 106.75.217.162-22 3 106.75.217.162-22 4 106.75.217.162-22
所有会话
Completed 9688 requests
Completed 10000 requests
Finished 10000 requests
Server Software: Werkzeug/3.0.1
Server Hostname: 106.75.218.172
Server Port: 80
Document Path: /
Document Length: 12 bytes
Concurrency Level: 1000
Time taken for tests: 29.284 seconds
Completed requests: 10000
Failed requests: 0
Total transferred: 1050000 bytes
HTML transferred: 1050000 bytes
Requests per second: 341.71 [#/sec] (mean)
Time per request: 2926.443 [ms] (mean)
Time per request: 2.926 [ms] (mean, >= 2.000000 concurrent requests)
Transfer rate: 61.74 [Kbytes/sec] received
Connection Times (ms)
min mean[+/-sd] median max
Connect: 3 6 6.5 4 33
Processing: 22 1077 3490.1 113 29202
Waiting: 11 1076 3490.1 112 29202
Total: 48 1083 3494.6 116 29221
Percentage of the requests served within a certain time (ms)
50% 116
66% 118
75% 123
88% 126
90% 1346
95% 7988
98% 15372
99% 15439
100% 29221 (longest request)
[root@10-23-181-75 ~]#
```

名称	所有会话
类型	文件表
子项目	0
主机	
端口	22
协议	SSH
用户名	
说明	

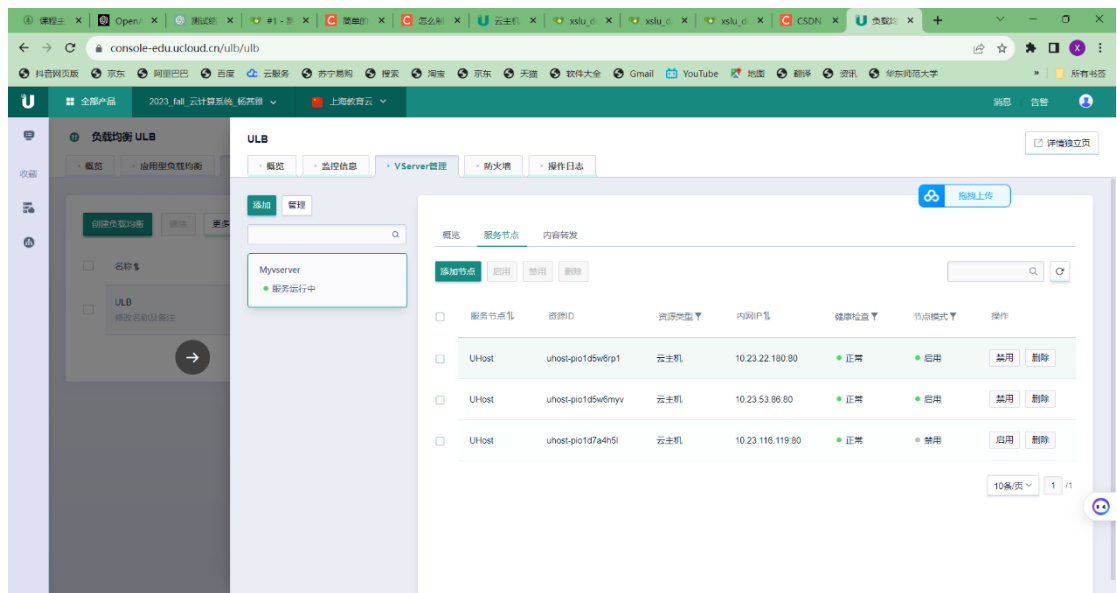
ssh://root@106.75.217.162-22

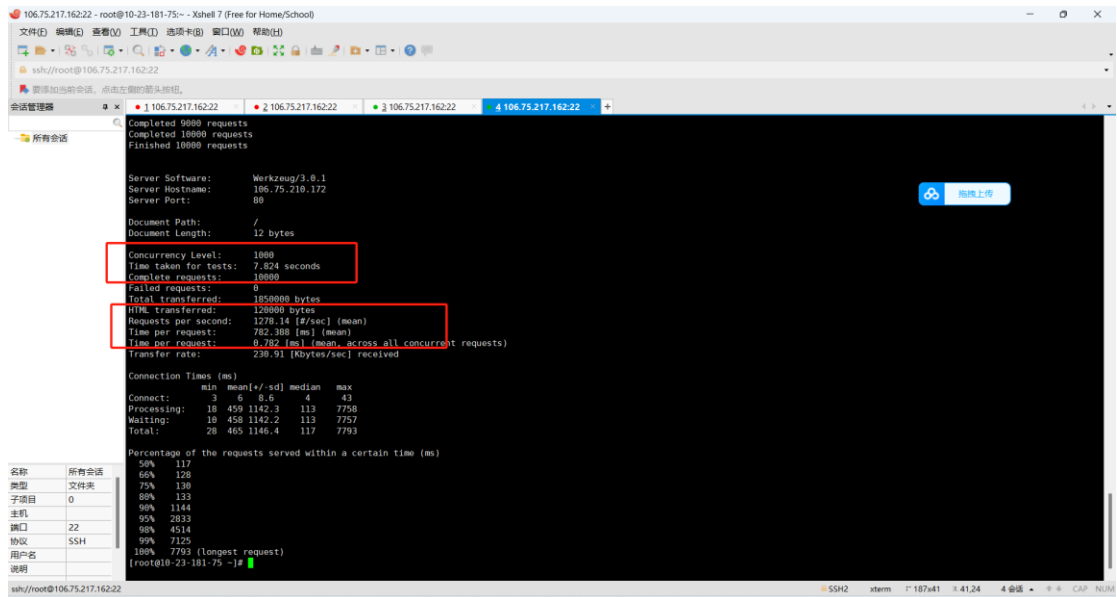
两个节点

Time taken for tests: 7.824 seconds

Requests per second: 1278.14

Time per request: 782.388



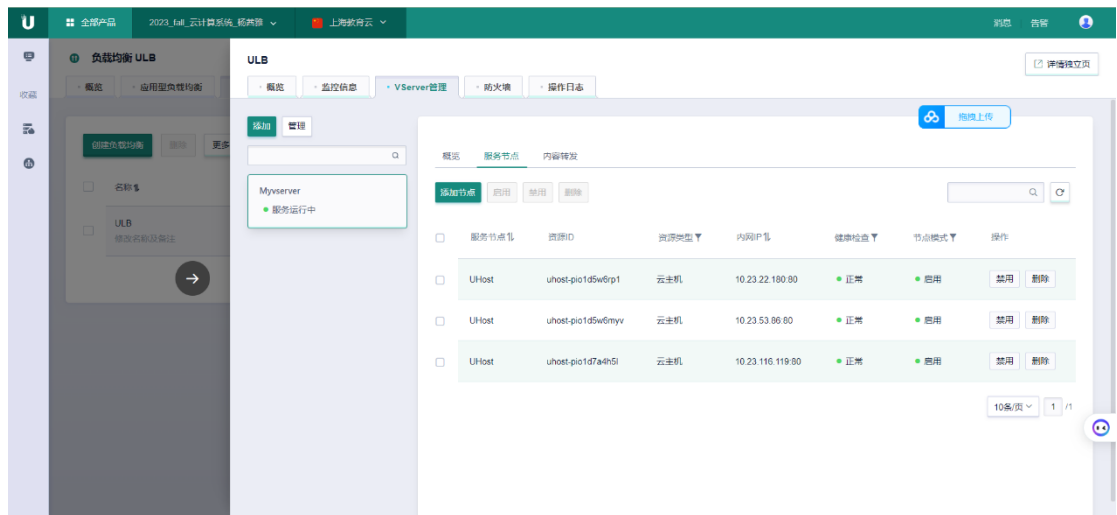


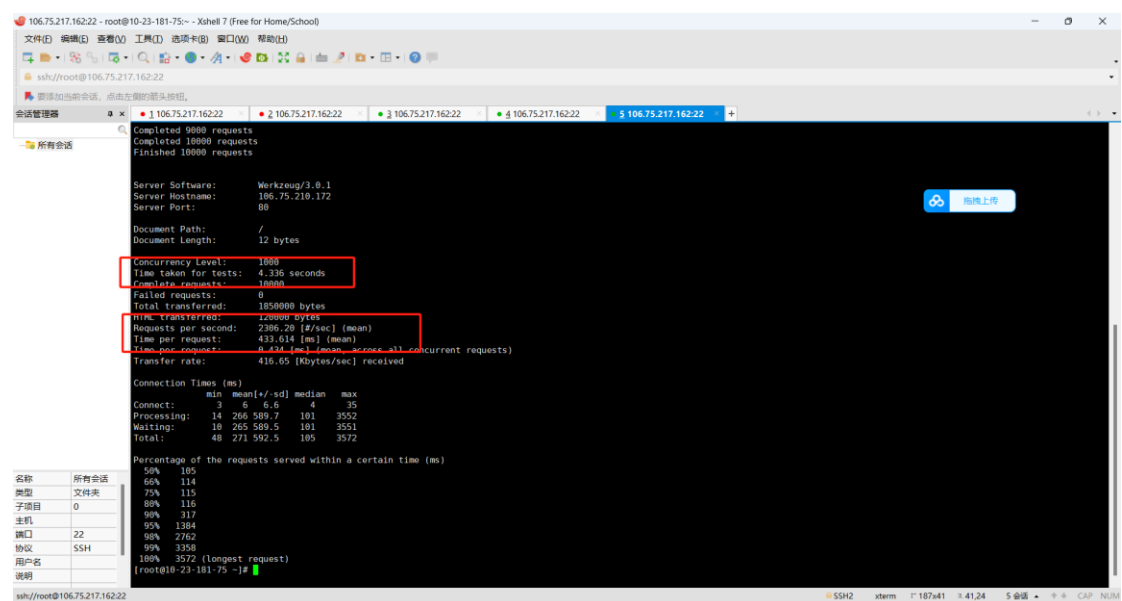
三个节点

Time taken for tests: 4.336 seconds

Requests per second: 2306.20

Time per request: 433.614





```
106.75.217.162:22 - root@10-23-181-75:~ - Xshell 7 (Free for Home/School)
ssh://root@106.75.217.162:22
会话管理器
1 106.75.217.162:22
2 106.75.217.162:22
3 106.75.217.162:22
4 106.75.217.162:22
5 106.75.217.162:22
所有会话
Completed 9000 requests
Completed 10000 requests
Finished 10000 requests

Server Software: Werkzeug/3.0.1
Server Hostname: 106.75.210.172
Server Port: 80
Document Path: /
Document Length: 12 bytes

Concurrency Level: 1000
Time taken for tests: 4.335 seconds
Complete requests: 10000
Failed requests: 0
Total transferred: 1050000 bytes
Time transferred: 1000000 bytes
Requests per second: 2306.20 [#/sec] (mean)
Time per request: 433.614 [ms] (mean)
Time per request: 4.336 [ms] (mean, across all concurrent requests)
Transfer rate: 416.65 [Kbytes/sec] received

Connection Times (ms)
min mean[+/-sd] median max
Connect: 3 6 6.6 4 35
Processing: 14 266 589.7 101 3552
Waiting: 10 265 589.5 101 3551
Total: 48 271 592.5 105 3572

Percentage of the requests served within a certain time (ms)
50% 105
66% 114
75% 115
88% 116
90% 317
95% 1368
98% 2762
99% 3358
100% 3572 (longest request)
[root@10-23-181-75 ~]#
```

名称	所有会话
类型	文件表
子项目	0
主机	
端口	22
协议	SSH
用户名	
说明	

作业 4:

$50000000 \text{ requests} / 30 \text{ requests per second} / 2\text{h} / 3600 \text{ seconds/h} = 231.48$

向上取整，即232台机器

故需要至少 232 台机器才可能平稳度过峰值请求。