






```

xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2400
Starting a server at:2400...
Server_port=2400:key=key-19,value=value-19, op=PUT
■
xiaodembp:phase2 copy xiaozhang$ python3 client_producer.py
Creating a server connection to tcp://127.0.0.1:2400...
Creating a server connection to tcp://127.0.0.1:2401...
Creating a server connection to tcp://127.0.0.1:2402...
Creating a server connection to tcp://127.0.0.1:2403...

```

Services 5 total

Search	Health Status ▾
<div>  consul </div> <div>1 Instance</div>	
<div>  server-2400 </div> <div>1 Instance</div>	
<div>  server-2401 </div> <div>1 Instance</div>	
<div>  server-2402 </div> <div>1 Instance</div>	
<div>  server-2403 </div> <div>1 Instance</div>	

```

xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2401
Starting a server at:2401...
Server_port=2401:key=key-1,value=value-1, op=PUT
Server_port=2401:key=key-7,value=value-7, op=PUT
Server_port=2401:key=key-12,value=value-12, op=PUT
Server_port=2401:key=key-13,value=value-13, op=PUT
Server_port=2401:key=key-14,value=value-14, op=PUT
Server_port=2401:key=key-17,value=value-17, op=PUT
■
xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2402
Starting a server at:2402...
Server_port=2402:key=key-0,value=value-0, op=PUT
Server_port=2402:key=key-2,value=value-2, op=PUT
Server_port=2402:key=key-4,value=value-4, op=PUT
Server_port=2402:key=key-6,value=value-6, op=PUT
Server_port=2402:key=key-8,value=value-8, op=PUT
Server_port=2402:key=key-11,value=value-11, op=PUT
Server_port=2402:key=key-15,value=value-15, op=PUT
■

```

```
xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2403
Starting a server at:2403...
Server_port=2403:key=key-3,value=value-3, op=PUT
Server_port=2403:key=key-5,value=value-5, op=PUT
Server_port=2403:key=key-9,value=value-9, op=PUT
Server_port=2403:key=key-10,value=value-10, op=PUT
Server_port=2403:key=key-16,value=value-16, op=PUT
Server_port=2403:key=key-18,value=value-18, op=PUT
```

Delete the port 2400:

```
xiaodembp:phase2 copy xiaozhang$ python3 client_producer.py
Creating a server connection to tcp://127.0.0.1:2400...
Creating a server connection to tcp://127.0.0.1:2401...
Creating a server connection to tcp://127.0.0.1:2402...
Creating a server connection to tcp://127.0.0.1:2403...
Sending data:{'key': 'key-19', 'value': 'value-19', 'op': 'PUT'}
```

Services 4 total



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✓ consul

1 Instance

✓ server-2401

1 Instance

✓ server-2402

1 Instance

✓ server-2403

1 Instance

```
xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2400
Starting a server at:2400...
Server_port=2400:key=key-19,value=value-19, op=PUT
Server_port=2400:key=no value,value=no value, op=GET_ALL
xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2401
Starting a server at:2401...
Server_port=2401:key=key-1,value=value-1, op=PUT
Server_port=2401:key=key-7,value=value-7, op=PUT
Server_port=2401:key=key-12,value=value-12, op=PUT
Server_port=2401:key=key-13,value=value-13, op=PUT
Server_port=2401:key=key-14,value=value-14, op=PUT
Server_port=2401:key=key-17,value=value-17, op=PUT
```

```
xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2402
Starting a server at:2402...
Server_port=2402:key=key-0,value=value-0, op=PUT
Server_port=2402:key=key-2,value=value-2, op=PUT
Server_port=2402:key=key-4,value=value-4, op=PUT
Server_port=2402:key=key-6,value=value-6, op=PUT
Server_port=2402:key=key-8,value=value-8, op=PUT
Server_port=2402:key=key-11,value=value-11, op=PUT
Server_port=2402:key=key-15,value=value-15, op=PUT
_
xiaodembp:phase2 copy xiaozhang$ python3 server_consumer.py 2403
Starting a server at:2403...
Server_port=2403:key=key-3,value=value-3, op=PUT
Server_port=2403:key=key-5,value=value-5, op=PUT
Server_port=2403:key=key-9,value=value-9, op=PUT
Server_port=2403:key=key-10,value=value-10, op=PUT
Server_port=2403:key=key-16,value=value-16, op=PUT
Server_port=2403:key=key-18,value=value-18, op=PUT
Server_port=2403:key=key-19,value=value-19, op=PUT
_
```