

# 微服务之注册中心Consul

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## 一、简介

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**Consul**注册中心，目前比较火的，可以代替Eureka，微服务中常用的注册中心：

- 1、Eureka 2.0不再更新 基于CP
- 2、Zookeeper 标配Dubbo
- 3、Consul

## 二、安装

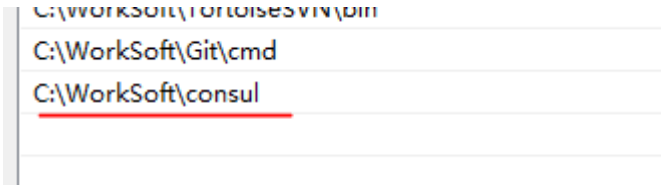
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- 1、下载

<https://www.consul.io/>

- 2、配置环境变量

电脑的path上添加路径



A screenshot of the Windows environment variables 'Path' list. It shows three entries: 'C:\WORKSOFT\TORTOISESVN\bin', 'C:\WorkSoft\Git\cmd', and 'C:\WorkSoft\consul'. The third entry is highlighted with a red underline.

```
C:\WORKSOFT\TORTOISESVN\bin  
C:\WorkSoft\Git\cmd  
C:\WorkSoft\consul
```

- 3、运行

**consul agent -dev**

```

C:\WINDOWS\system32\cmd.exe - consul agent -dev

Microsoft Windows [版本 10.0.17134.590]
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C:\Users\xing>consul agent -dev
==> Starting Consul agent...
==> Consul agent running!
    Version: 'v1.4.2'
    Node ID: '44cba89c-3364-af62-d17d-0ac4df2ce92f'
    Node name: 'feri'
    Datacenter: 'dc1' (Segment: '<all>')
    Server: true (Bootstrap: false)
    Client Addr: [127.0.0.1] (HTTP: 8500, HTTPS: -1, gRPC: 8502, DNS: 8600)
    Cluster Addr: 127.0.0.1 (LAN: 8301, WAN: 8302)
    Encrypt: Gossip: false, TLS-Outgoing: false, TLS-Incoming: false

==> Log data will now stream in as it occurs:

2019/02/19 14:08:40 [DEBUG] agent: Using random ID "44cba89c-3364-af62-d17d-0ac4df2ce92f" as node ID
2019/02/19 14:08:40 [INFO] raft: Initial configuration (index=1): [{Suffrage:Voter ID:44cba89c-3364-af62-d17d-0ac4df2ce92f Address:127.0.0.1:8300}]
2019/02/19 14:08:40 [INFO] raft: Node at 127.0.0.1:8300 [Follower] entering Follower state (Leader: "")
2019/02/19 14:08:40 [INFO] serf: EventMemberJoin: feri.dc1 127.0.0.1
2019/02/19 14:08:40 [INFO] serf: EventMemberJoin: feri 127.0.0.1
2019/02/19 14:08:40 [INFO] consul: Adding LAN server feri (Addr: tcp/127.0.0.1:8300) (DC: dc1)
2019/02/19 14:08:40 [INFO] consul: Handled member-join event for server "feri.dc1" in area "wan"
2019/02/19 14:08:40 [DEBUG] agent/proxy: managed Connect proxy manager started

```

#### 4、测试

在浏览器中输入: <http://localhost:8500/ui/dc1/services>

The screenshot shows the Consul UI interface. The browser address bar displays `localhost:8500/ui/dc1/nodes/feri`. The navigation bar includes tabs for `dc1`, `Services`, `Nodes` (selected), `Key/Value`, `ACL`, and `Intentions`. The main content area is titled `feri` with a sub-tab `Health Checks`. Under `Health Checks`, there is a green checkmark icon and the text `Serf Health Status`. Below this, the `Output` section shows the message `Agent alive and reachable`.

### 三、应用