



链滴

confd 模板自动生成配置，安装使用介绍

作者: [450370050](#)

原文链接: <https://ld246.com/article/1524558487122>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

confd 配置生成工具，安装方便linux环境直接下载二进制包就可以使用。可以结合

(etcd/consul/vault/environment variables/redis/zookeeper/dynamodb/rancher/ssm)本文介绍 etcd的结合使用方法

1.下载confd

```
mkdir -p /usr/local/confd/  
wget https://github.com/kelseyhightower/confd/releases/download/v0.14.0/confd-0.14.0-linux-amd64
```

创建模板文件夹 (templates) 和 配置文件夹(conf.d) confd默认使用的是这两个目录文件名

```
mkdir -p /usr/local/confd/{conf.d,templates}
```

2.etcd创建存储

```
/usr/local/etcd//etcdctl put /nginx/user www  
/usr/local/etcd//etcdctl put /nginx/group www  
/usr/local/etcd//etcdctl put /nginx/worker_processes auto  
/usr/local/etcd//etcdctl put /nginx/error_log /home/wwwlogs/nginx_error.log  
/usr/local/etcd//etcdctl put /nginx/pid_path /usr/local/nginx/logs/nginx.pid  
/usr/local/etcd//etcdctl put /nginx/log_level crit
```

3.创建模板配置

```
vi /usr/local/confd/conf.d/nginx.toml
```

```
[template]  
src = "nginx.conf.tmpl" ## templates中模板文件名  
dest = "/usr/local/nginx/conf/nginx.conf" ## 配置文件生成路径  
keys = [  
    "/nginx/group",  
    "/nginx/user",  
    "/nginx/worker_processes",  
    "/nginx/error_log",  
    "/nginx/log_level",  
    "/nginx/pid_path"  
]  
check_cmd = "/usr/sbin/nginx -t -c {{.src}}" ##nginx检测配置文件  
reload_cmd = "/usr/sbin/service nginx reload" ##nginx服务重启
```

4.创建nginx配置模板 (只更改部分参数用于演示)

```
vi /usr/local/confd/templates/nginx.conf.tmpl
```

```
user {{getv "/nginx/group"}} {{getv "/nginx/user"}};  
worker_processes {{getv "/nginx/worker_processes"}};  
error_log {{getv "/nginx/error_log"}} {{getv "/nginx/log_level"}};  
pid {{getv "/nginx/pid_path"}};  
worker_rlimit_nofile 51200;  
events
```

```

{
    use epoll;
    worker_connections 51200;
    multi_accept on;
}
http
{
    include mime.types;
    default_type application/octet-stream;
    server_names_hash_bucket_size 128;
    client_header_buffer_size 32k;
    large_client_header_buffers 4 32k;
    client_max_body_size 50m;
    sendfile on;
    tcp_nopush on;
    keepalive_timeout 60;
    tcp_nodelay on;
    fastcgi_connect_timeout 300;
    fastcgi_send_timeout 300;
    fastcgi_read_timeout 300;
    fastcgi_buffer_size 64k;
    fastcgi_buffers 4 64k;
    fastcgi_busy_buffers_size 128k;
    fastcgi_temp_file_write_size 256k;
    access_log off;
}
server
{
    listen 80 default_server;
    server_name _;
    index index.html index.htm index.php;
    root /home/wwwroot/default;
    include enable-php.conf;
    location /nginx_status
    {
        stub_status on;
        access_log off;
    }

    location ~ .*\.?(gif|jpg|jpeg|png|bmp|swf)$
    {
        expires 30d;
    }

    location ~ .*\.?(js|css)?$
    {
        expires 12h;
    }

    location ~ /\.well-known {
        allow all;
    }

    location ~ /\.
    {

```

```

        deny all;
    }

    access_log /home/wwwlogs/access.log;
}
}

```

5. 测试

命令返回我们看到nginx的配置文件已经更新，nginx配置文件reload加载成功

```

```shell
./confd -confdir /usr/local/confd/ -onetime -backend etcdv3 -node http://127.0.0.1:2379 -log
level debug
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: INFO Backend set to etcdv
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: INFO Starting confd
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: INFO Backend source(s) set
to http://127.0.0.1:2379
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Loading template
esources from confdir /usr/local/confd/
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Found template: /u
r/local/confd/conf.d/nginx.toml
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Loading template
esource from /usr/local/confd/conf.d/nginx.toml
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Retrieving keys fr
m store
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Key prefix set to /
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Got the following
ap from store: map[/nginx/user:www /nginx/worker_processes:auto /nginx/error_log:/home/
wwlogs/nginx_error.log /nginx/log_level:crit /nginx/pid_path:/usr/local/nginx/logs/nginx.pid
nginx/group:www]
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Using source temp
late /usr/local/confd/templates/nginx.conf.tmpl
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Compiling source t
mplate /usr/local/confd/templates/nginx.conf.tmpl
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Comparing candid
te config to /usr/local/nginx/conf/nginx.conf
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: INFO Target config /usr/lo
al/nginx/conf/nginx.conf out of sync
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Running /usr/local
nginx/sbin/nginx -t -c /usr/local/nginx/conf/nginx.conf050458651
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG "nginx: the configu
ration file /usr/local/nginx/conf/nginx.conf050458651 syntax is ok\nnginx: configuration file /
sr/local/nginx/conf/nginx.conf050458651 test is successful\n"
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Overwriting target
onfig /usr/local/nginx/conf/nginx.conf
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG Running /usr/sbin/
ervice nginx reload
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: DEBUG "Reload service ng
nx... done\n"
2017-11-10T11:05:26+08:00 localhost.localdomain ./confd[52470]: INFO Target config /usr/lo
al/nginx/conf/nginx.conf has been updated

```

## 6.常用参数

confd默认配置路径/etc/confd/ -confdir参数更改路径为 /usr/local/confd/

-onetime 运行一次

-backend 后端数据服务节点

-log-level 置顶日志级别

-interval 轮询周期 默认10分钟

**<font color=red>我们可以通过运维平台在线改动服务配置，利用confd动态变更配置文件重启服，实现远程配置，多机同步配置。 </font>**