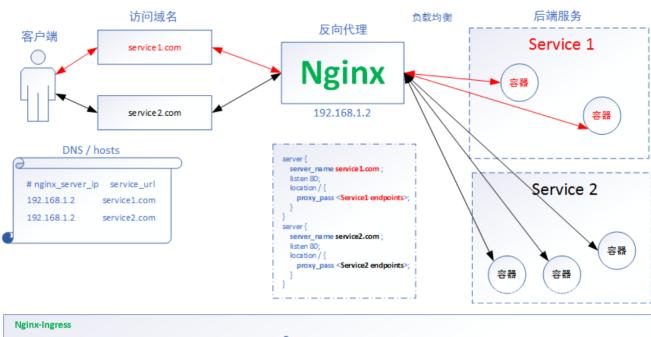
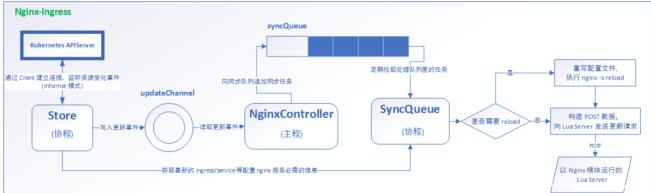
资料信息

Ingress-Nginx github 地址: https://github.com/kubernetes/ingress-nginx

Ingress-Nginx 官方网站: https://kubernetes.github.io/ingress-nginx/





部署 Ingress-Nginx

```
kubectl apply -f mandatory.yaml
kubectl apply -f service-nodeport.yaml
```

Ingress HTTP 代理访问

deployment、Service、Ingress Yaml 文件

```
apiVersion: extensions/v1beta1
```

```
kind: Deployment
metadata:
 name: nginx-dm
spec:
 replicas: 2
 template:
   metadata:
     labels:
       name: nginx
   spec:
     containers:
       - name: nginx
         image: wangyanglinux/myapp:v1
         imagePullPolicy: IfNotPresent
         ports:
          - containerPort: 80
apiVersion: v1
kind: Service
metadata:
 name: nginx-svc
spec:
 ports:
   - port: 80
     targetPort: 80
     protocol: TCP
 selector:
   name: nginx
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
 name: nginx-test
spec:
 rules:
   - host: www1.atguigu.com
     http:
        paths:
        - path: /
         backend:
           serviceName: nginx-svc
            servicePort: 80
```

Ingress HTTPS 代理访问

```
openssl req -x509 -sha256 -nodes -days 365 -newkey rsa:2048 -keyout tls.key -out tls.crt -subj "/CN=nginxsvc/O=nginxsvc" kubectl create secret tls tls-secret --key tls.key --cert tls.crt
```

deployment、Service、Ingress Yaml 文件

```
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: nginx-test
spec:
 tls:
    - hosts:
      - foo.bar.com
      secretName: tls-secret
  rules:
    - host: foo.bar.com
     http:
       paths:
        - path: /
         backend:
            serviceName: nginx-svc
            servicePort: 80
```

Nginx 进行 BasicAuth

```
yum -y install httpd
htpasswd -c auth foo
kubectl create secret generic basic-auth --from-file=auth
```

```
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
 name: ingress-with-auth
  annotations:
    nginx.ingress.kubernetes.io/auth-type: basic
   nginx.ingress.kubernetes.io/auth-secret: basic-auth
    nginx.ingress.kubernetes.io/auth-realm: 'Authentication Required - foo'
  rules:
  - host: foo2.bar.com
   http:
      paths:
      - path: /
        backend:
          serviceName: nginx-svc
          servicePort: 80
```

Nginx 进行重写

名称	描述	值
nginx.ingress.kubernetes.io/rewrite- target	必须重定向流量的目标URI	串
nginx.ingress.kubernetes.io/ssl- redirect	指示位置部分是否仅可访问SSL(当Ingress包含证书时默认为True)	布 尔
nginx.ingress.kubernetes.io/force- ssl-redirect	即使Ingress未启用TLS,也强制重定向到HTTPS	布 尔
nginx.ingress.kubernetes.io/app- root	定义Controller必须重定向的应用程序根,如果它在'/'上 下文中	串
nginx.ingress.kubernetes.io/use- regex	指示Ingress上定义的路径是否使用正则表达式	布 尔

```
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: nginx-test
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: http://foo.bar.com:31795/hostname.html
spec:
  rules:
  - host: foo10.bar.com
  http:
    paths:
    - path: /
    backend:
        serviceName: nginx-svc
        servicePort: 80
```