

第

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节

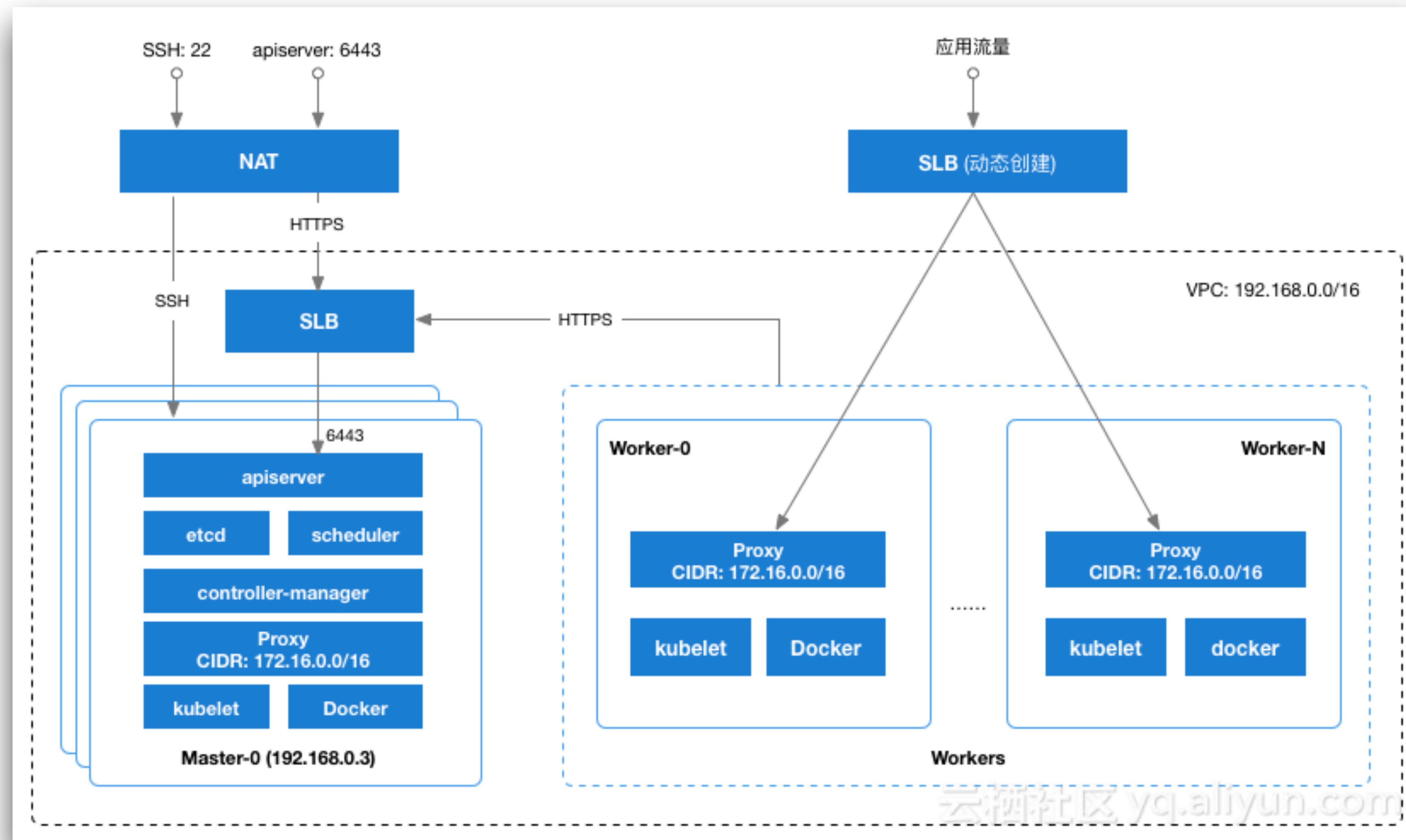
Petclinic微服务的阿里云K8s部署架构

本课内容

- 阿里云K8s部署架构
- Petclinic微服务的阿里云K8s部署架构Review
- Petclinic微服务的阿里云K8s发布文件Review

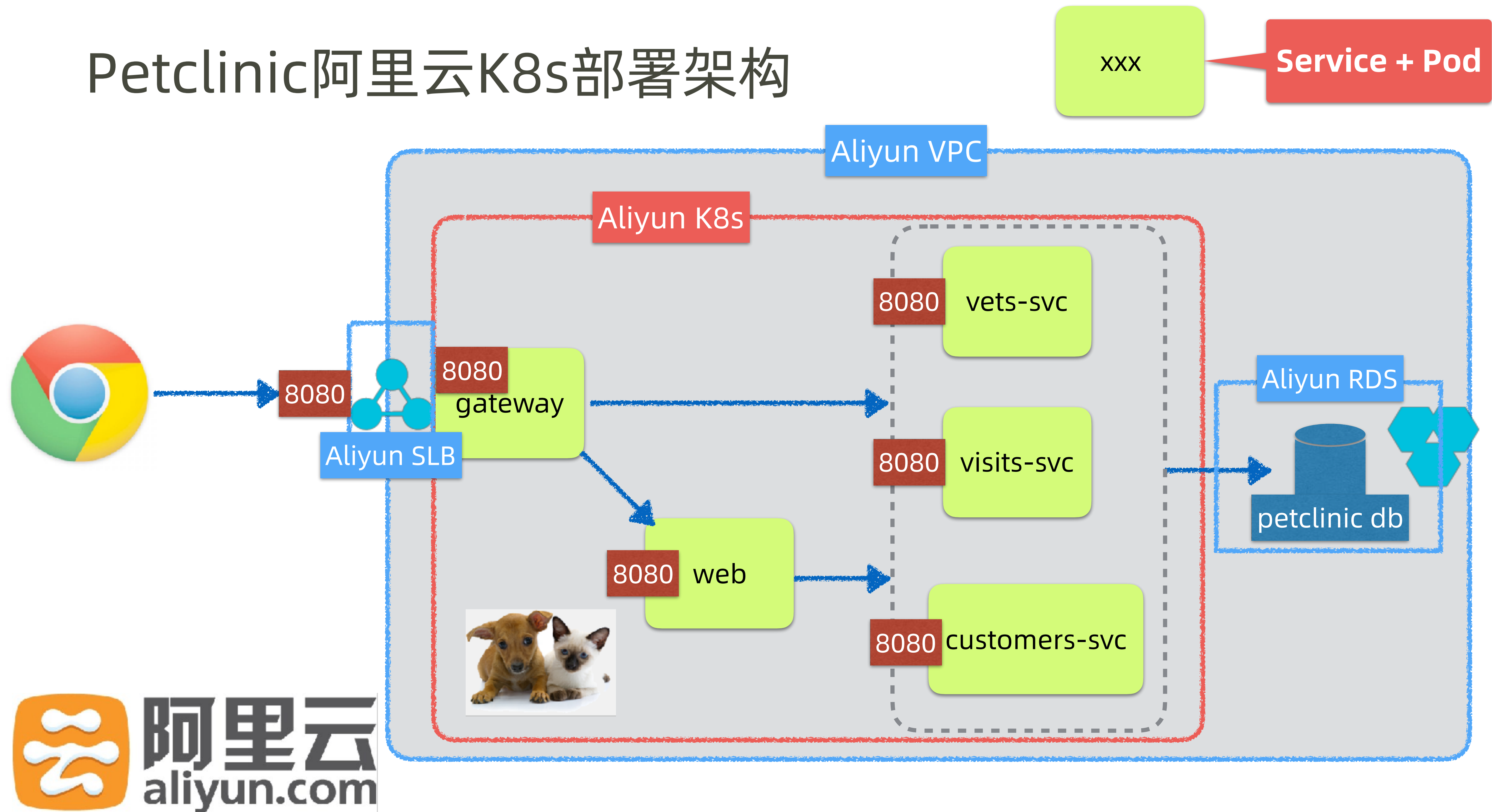


阿里云K8s部署架构



<https://yq.aliyun.com/articles/88526>

Petclinic阿里云K8s部署架构



petclinic-config.yml

```
1  apiVersion: v1
2  kind: ConfigMap
3  metadata:
4    name: petclinic-config
5  data:
6    SERVER_PORT: "8080"
7    SPRING_PROFILES_ACTIVE: mysql
8    DATASOURCE_URL: jdbc:mysql://rm-uf6jpes84u6t7pof7.mysql.rds.aliyuncs.com:3306/petclinic
9    DATASOURCE_USERNAME: root
10   DATASOURCE_PASSWORD: Petclinic1234
11   WEB_APP_ENDPOINT: http://web:8080
12   VETS_SERVICE_ENDPOINT: http://vets:8080
13   VISITS_SERVICE_ENDPOINT: http://visits:8080
14   CUSTOMERS_SERVICE_ENDPOINT: http://customers:8080
15
```


customer-svc.yml

```
22 apiVersion: v1
23 kind: Service
24 metadata:
25   name: customers
26 spec:
27   selector:
28     app: customers
29   ports:
30     - name: http
31       port: 8080
32       targetPort: 8080
33   type: ClusterIP
```

```
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4    name: customers
5  spec:
6    selector:
7      matchLabels:
8        app: customers
9    replicas: 2
10   template:
11     metadata:
12       labels:
13         app: customers
14     spec:
15       containers:
16         - name: customers
17           image: spring2go/spring-petclinic-customers-service:1.0.0.RELEASE
18           envFrom:
19             - configMapRef:
20               name: petclinic-config
```

vets-svc.yml

```
22 apiVersion: v1
23 kind: Service
24 metadata:
25 |   name: vets
26 spec:
27 |   selector:
28 |     app: vets
29 |   ports:
30 |     - name: http
31 |       port: 8080
32 |       targetPort: 8080
33 |   type: ClusterIP
```

```
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4  |   name: vets
5  spec:
6  |   selector:
7  |     matchLabels:
8  |       app: vets
9  |   replicas: 2
10 |   template:
11 |     metadata:
12 |       labels:
13 |         app: vets
14 |     spec:
15 |       containers:
16 |         - name: vets
17 |           image: spring2go/spring-petclinic-vets-service:1.0.0.RELEASE
18 |           envFrom:
19 |             - configMapRef:
20 |               name: petclinic-config
```

visits-svc.yml

```
22 apiVersion: v1
23 kind: Service
24 metadata:
25 |   name: visits
26 spec:
27 |   selector:
28 |     app: visits
29 |   ports:
30 |     - name: http
31 |       port: 8080
32 |       targetPort: 8080
33 |   type: ClusterIP
34
```

```
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4  |   name: visits
5  spec:
6  |   selector:
7  |     matchLabels:
8  |       app: visits
9  |   replicas: 2
10 |   template:
11 |     metadata:
12 |       labels:
13 |         app: visits
14 |     spec:
15 |       containers:
16 |         - name: visits
17 |           image: spring2go/spring-petclinic-visits-service:1.0.0.RELEASE
18 |           envFrom:
19 |             - configMapRef:
20 |               name: petclinic-config
```


web-app.yml

```
26 apiVersion: v1
27 kind: Service
28 metadata:
29   name: web
30 spec:
31   selector:
32     app: web
33   ports:
34     - name: http
35       port: 8080
36       targetPort: 8080
37   type: ClusterIP
```

```
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4    name: web
5  spec:
6    selector:
7      matchLabels:
8        app: web
9    replicas: 2
10   template:
11     metadata:
12       labels:
13         app: web
14     spec:
15       containers:
16         - name: web
17           image: spring2go/spring-petclinic-web-app:1.0.0.RELEASE
18           envFrom:
19             - configMapRef:
20               name: petclinic-config
```

gateway-svc.yml

```
22 apiVersion: v1
23 kind: Service
24 metadata:
25   name: gateway
26 spec:
27   selector:
28     app: gateway
29   ports:
30     - name: http
31       port: 8080
32       targetPort: 8080
33   type: LoadBalancer
34
```

```
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4    name: gateway
5  spec:
6    selector:
7      matchLabels:
8        app: gateway
9    replicas: 2
10   template:
11     metadata:
12       labels:
13         app: gateway
14     spec:
15       containers:
16         - name: gateway-service
17           image: spring2go/spring-petclinic-cloud-gateway:1.0.0.RELEASE
18           envFrom:
19             - configMapRef:
20               name: petclinic-config
```

本课小结



- 阿里云K8s部署架构Review, 学习阿里云专业术语
 - SLB/NAT/VPC/CIDR等
- Petclinic微服务的阿里云K8s部署架构Review
 - 阿里云VPC
 - 阿里云RDS -> mysql DB
 - 阿里云SLB将服务暴露到公网
- Petclinic微服务的阿里云K8s发布文件Review
 - RDS连接字符串
 - ConfigMap共享配置
 - Gateway Service Type = LoadBalancer