OpenShift Templates

Templates are regular resource descriptors that are parameterized. As seen in Example 20-7, we can easily use the configuration image as a parameter.

Example 20-7. OpenShift Template for parameterizing config image

```
apiVersion: v1
kind: Template
metadata:
  name: demo
parameters:
  - name: CONFIG_IMAGE                        ❶
    description: Name of configuration image
    value: k8spatterns/config-dev:1
objects:
- apiVersion: v1
  kind: DeploymentConfig
    // ....
    spec:
      template:
        metadata:
          // ....
          spec:
            initContainers:
            - name: init
              image: ${CONFIG_IMAGE}          ❷
              args: [ "/config" ]
              volumeMounts:
              - mountPath: /config
                name: config-directory
            containers:
            - image: k8spatterns/demo:1
              // ...
              volumeMounts:
              - mountPath: /config
                name: config-directory
          volumes:
          - name: config-directory
            emptyDir: {}
```

❶ Template parameter CONFIG_IMAGE declaration

❷ Use of the template parameter

We show here only a fragment of the full descriptor, but we can quickly recognize the parameter CONFIG_IMAGE we reference in the init container declaration. If we create this template on an OpenShift cluster, we can instantiate it by calling oc, as in Example 20-8.