```yaml
apiVersion: v1
kind: Secret
metadata:
  name: gift-secret
  labels:
    app: gift-service
    project: gift-service
    tier: backend
# 민감 정보를 위한 Secret 리소스
# From source_5
# From source_13
data:
  JWT_SECRET: WW4ya2ppYmRkRkFXdG5QSjJBRmxMOFdYbW9oSk1DdmlnUWdnYyV5cGE1RT0=
  KAKAO_CLIENT_ID: YWMyMGQ4NGY5N2I2NzlmMGJiZDlhODA2NWJhODIzZjM=
  KAKAO_CLIENT_SECRET: RnczSmlMNVBrcGV2WFZaa0U9pVk04YmZiZ0hVUEQ1RUE=
---
apiVersion: v1
kind: ConfigMap
metadata:
  name: gift-config
  labels:
    app: gift-service
    project: gift-service
    tier: backend
# 비민감 정보를 위한 ConfigMap 리소스
# From source_5
data:
  API_GATEWAY_URI: http://api-gateway-svc:8080
  SERVICE_USER_URI: http://user-service-svc:8084
  SERVICE_PRODUCT_URI: http://product-service-svc:8081
  SERVICE_WISH_URI: http://wish-service-svc:8082
  SERVICE_ORDER_URI: http://order-service-svc:8083
  KAKAO_REDIRECT_URI: http://localhost:8080/members/login/oauth2/code/kakao
  FRONT_DOMAIN: http://localhost:8080
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: api-gateway
  labels:
    app: api-gateway
    project: gift-service
    tier: backend
# api-gateway를 위한 Deployment 리소스
# From source_6
spec:
  replicas: 1
  selector:
    matchLabels:
      app: api-gateway
  template:
    metadata:
```

```yaml
      labels:
        app: api-gateway
        project: gift-service
        tier: backend
    spec:
      containers:
      - name: api-gateway
        image: sk124590/api-gateway:2.1
        ports:
        - containerPort: 8080
        env:
        - name: SERVICE_USER_URI
          valueFrom:
            configMapKeyRef:
              name: gift-config
              key: SERVICE_USER_URI
        - name: SERVICE_PRODUCT_URI
          valueFrom:
            configMapKeyRef:
              name: gift-config
              key: SERVICE_PRODUCT_URI
        - name: SERVICE_WISH_URI
          valueFrom:
            configMapKeyRef:
              name: gift-config
              key: SERVICE_WISH_URI
        - name: SERVICE_ORDER_URI
          valueFrom:
            configMapKeyRef:
              name: gift-config
              key: SERVICE_ORDER_URI
        - name: JWT_SECRET
          valueFrom:
            secretKeyRef:
              name: gift-secret
              key: JWT_SECRET
        resources:
          requests:
            cpu: "100m"
            memory: "256Mi"
          limits:
            cpu: "500m"
            memory: "512Mi"
---
apiVersion: v1
kind: Service
metadata:
  name: api-gateway-svc
  labels:
    app: api-gateway
    project: gift-service
    tier: backend
# api-gateway를 위한 Service 리소스
# From source_3
```

```yaml
spec:
  type: ClusterIP
  selector:
    app: api-gateway
  ports:
  - protocol: TCP
    port: 8080
    targetPort: 8080
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: user-service
  labels:
    app: user-service
    project: gift-service
    tier: backend
# user-service를 위한 Deployment 리소스
# From source_8
spec:
  replicas: 1
  selector:
    matchLabels:
      app: user-service
  template:
    metadata:
      labels:
        app: user-service
        project: gift-service
        tier: backend
    spec:
      containers:
      - name: user-service
        image: sk124590/user-service:2.1
        ports:
        - containerPort: 8084
        env:
        - name: JWT_SECRET
          valueFrom:
            secretKeyRef:
              name: gift-secret
              key: JWT_SECRET
        - name: KAKAO_CLIENT_ID
          valueFrom:
            secretKeyRef:
              name: gift-secret
              key: KAKAO_CLIENT_ID
        - name: KAKAO_CLIENT_SECRET
          valueFrom:
            secretKeyRef:
              name: gift-secret
              key: KAKAO_CLIENT_SECRET
        - name: KAKAO_REDIRECT_URI
          valueFrom:
```

```yaml
            configMapKeyRef:
              name: gift-config
              key: KAKAO_REDIRECT_URI
        resources:
          requests:
            cpu: "150m"
            memory: "512Mi"
          limits:
            cpu: "1000m"
            memory: "1Gi"
---
apiVersion: v1
kind: Service
metadata:
  name: user-service-svc
  labels:
    app: user-service
    project: gift-service
    tier: backend
# user-service를 위한 Service 리소스
# From source_12
spec:
  type: ClusterIP
  selector:
    app: user-service
  ports:
  - protocol: TCP
    port: 8084
    targetPort: 8084
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: product-service
  labels:
    app: product-service
    project: gift-service
    tier: backend
# product-service를 위한 Deployment 리소스
# From source_10
spec:
  replicas: 1
  selector:
    matchLabels:
      app: product-service
  template:
    metadata:
      labels:
        app: product-service
        project: gift-service
        tier: backend
    spec:
      containers:
      - name: product-service
```

```yaml
        image: sk124590/product-service:2.1
        ports:
        - containerPort: 8081
        resources:
          requests:
            cpu: "150m"
            memory: "512Mi"
          limits:
            cpu: "1000m"
            memory: "1Gi"
---
apiVersion: v1
kind: Service
metadata:
  name: product-service-svc
  labels:
    app: product-service
    project: gift-service
    tier: backend
# product-service를 위한 Service 리소스
# From source_12
spec:
  type: ClusterIP
  selector:
    app: product-service
  ports:
  - protocol: TCP
    port: 8081
    targetPort: 8081
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wish-service
  labels:
    app: wish-service
    project: gift-service
    tier: backend
# wish-service를 위한 Deployment 리소스
# From source_4
spec:
  replicas: 1
  selector:
    matchLabels:
      app: wish-service
  template:
    metadata:
      labels:
        app: wish-service
        project: gift-service
        tier: backend
    spec:
      containers:
      - name: wish-service
```

```yaml
        image: sk124590/wish-service:2.1
        ports:
        - containerPort: 8082
        env:
        - name: SERVICE_PRODUCT_URI
          valueFrom:
            configMapKeyRef:
              name: gift-config
              key: SERVICE_PRODUCT_URI
        resources:
          requests:
            cpu: "100m"
            memory: "512Mi"
          limits:
            cpu: "700m"
            memory: "1Gi"
---
apiVersion: v1
kind: Service
metadata:
  name: wish-service-svc
  labels:
    app: wish-service
    project: gift-service
    tier: backend
# wish-service를 위한 Service 리소스
# From source_12
spec:
  type: ClusterIP
  selector:
    app: wish-service
  ports:
  - protocol: TCP
    port: 8082
    targetPort: 8082
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: order-service
  labels:
    app: order-service
    project: gift-service
    tier: backend
# order-service를 위한 Deployment 리소스
# From source_7
spec:
  replicas: 1
  selector:
    matchLabels:
      app: order-service
  template:
    metadata:
      labels:
```

```yaml
      app: order-service
      project: gift-service
      tier: backend
  spec:
    containers:
    - name: order-service
      image: sk124590/order-service:2.1
      ports:
      - containerPort: 8083
      env:
      - name: SERVICE_PRODUCT_URI
        valueFrom:
          configMapKeyRef:
            name: gift-config
            key: SERVICE_PRODUCT_URI
      - name: SERVICE_WISH_URI
        valueFrom:
          configMapKeyRef:
            name: gift-config
            key: SERVICE_WISH_URI
      - name: SERVICE_USER_URI
        valueFrom:
          configMapKeyRef:
            name: gift-config
            key: SERVICE_USER_URI
      - name: FRONT_DOMAIN
        valueFrom:
          configMapKeyRef:
            name: gift-config
            key: FRONT_DOMAIN
      - name: KAKAO_CLIENT_ID
        valueFrom:
          secretKeyRef:
            name: gift-secret
            key: KAKAO_CLIENT_ID
      - name: KAKAO_CLIENT_SECRET
        valueFrom:
          secretKeyRef:
            name: gift-secret
            key: KAKAO_CLIENT_SECRET
      resources:
        requests:
          cpu: "100m"
          memory: "512Mi"
        limits:
          cpu: "700m"
          memory: "1Gi"
---
apiVersion: v1
kind: Service
metadata:
  name: order-service-svc
  labels:
    app: order-service
```

```yaml
    project: gift-service
    tier: backend
# order-service를 위한 Service 리소스
# From source_12
spec:
  type: ClusterIP
  selector:
    app: order-service
  ports:
  - protocol: TCP
    port: 8083
    targetPort: 8083
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: gift-app
  labels:
    app: gift-app
    project: gift-service
    tier: frontend
# gift-app을 위한 Deployment 리소스
# From source_10
spec:
  replicas: 1
  selector:
    matchLabels:
      app: gift-app
  template:
    metadata:
      labels:
        app: gift-app
        project: gift-service
        tier: frontend
    spec:
      containers:
      - name: gift-app
        image: sk124590/gift-app:2.1
        ports:
        - containerPort: 8085
        env:
        - name: API_GATEWAY_URI
          valueFrom:
            configMapKeyRef:
              name: gift-config
              key: API_GATEWAY_URI
        - name: KAKAO_REDIRECT_URI
          valueFrom:
            configMapKeyRef:
              name: gift-config
              key: KAKAO_REDIRECT_URI
        - name: JWT_SECRET
          valueFrom:
            secretKeyRef:
```

```yaml
            name: gift-secret
            key: JWT_SECRET
        - name: KAKAO_CLIENT_ID
          valueFrom:
            secretKeyRef:
              name: gift-secret
              key: KAKAO_CLIENT_ID
        - name: KAKAO_CLIENT_SECRET
          valueFrom:
            secretKeyRef:
              name: gift-secret
              key: KAKAO_CLIENT_SECRET
        resources:
          requests:
            cpu: "100m"
            memory: "512Mi"
          limits:
            cpu: "500m"
            memory: "1Gi"
---
apiVersion: v1
kind: Service
metadata:
  name: gift-app-svc
  labels:
    app: gift-app
    project: gift-service
    tier: frontend
# gift-app을 위한 Service 리소스
# From source_12
spec:
  type: LoadBalancer
  selector:
    app: gift-app
  ports:
  - protocol: TCP
    port: 8080
    targetPort: 8085
```

YAML 위치와 내용	참조된 Source	비고
gift-secret.Secret (설명 주석) = 민감 정보를 위한 Secret 리소스	source_5	시크릿 리소스 목적 설명
gift-secret.Secret (설명 주석) = 민감 정보를 위한 Secret 리소스	source_13	민감정보는 Secret에 저장 정책

YAML 위치와 내용	참조된 Source	비고
gift-secret.Secret.data.JWT_SECRET = WW4ya2ppYmRkRkFXdG5QSjJBRmxMOFdYbW9oSk1DdmlnUWdnYUV5cGE1RT0=	source_5	JWT 서명 키(Base64)
gift-secret.Secret.data.KAKAO_CLIENT_ID = YWMyMGQ4NGY5N2I2NzlmMGJiZDlhODA2NWJhODIzZjM=	source_5	카카오 OAuth 클라이언트 ID(Base64)
gift-secret.Secret.data.KAKAO_CLIENT_SECRET = RnczSmlMNVBrcGV2WFZaaOU9pVk04YmZiZ0hVUEQ1RUE=	source_5	카카오 OAuth 시크릿 (Base64)
gift-config.ConfigMap (설명 주석) = 비민감 정보를 위한 ConfigMap 리소스	source_5	비민감 설정은 ConfigMap에 저장 정책
api-gateway-svc.Service.metadata.labels.app = api-gateway	source_11	라벨(app)
api-gateway-svc.Service.metadata.labels.project = gift-service	source_11	라벨 (project)
api-gateway-svc.Service.metadata.labels.tier = backend	source_11	라벨(tier)
api-gateway-svc.Service.spec.selector.app = api-gateway	source_11	서비스 셀렉터
api-gateway-svc.Service.spec.type = ClusterIP	source_12	서비스 타입
api-gateway-svc.Service (설명 주석) = api-gateway를 위한 Service 리소스	source_3	서비스 리소스 목적 설명
api-gateway.Deployment (설명 주석) = api-gateway를 위한 Deployment 리소스	source_6	디플로이먼트 리소스 목적 설명
api-gateway.Deployment.spec.replicas = 1	source_6	레플리카 수
api-gateway.Deployment.spec.selector.matchLabels.app = api-gateway	source_11	디플로이먼트 셀렉터
api-gateway.Deployment.spec.template.metadata.labels.app = api-gateway	source_11	파드 라벨 (app)

YAML 위치와 내용	참조된 Source	비고
api-gateway.Deployment.spec.template.metadata.labels.project = gift-service	source_11	파드 라벨 (project)
api-gateway.Deployment.spec.template.metadata.labels.tier = backend	source_11	파드 라벨 (tier)
api-gateway.Deployment.spec.template.spec.containers[0].image = sk124590/api-gateway:2.1	source_6	컨테이너 이미지
api-gateway.Deployment.spec.template.spec.containers[0].envFrom.configMapRef.name = gift-config	source_6	ConfigMap 주입
api-gateway.Deployment.spec.template.spec.containers[0].envFrom.secretRef.name = gift-secret	source_6	Secret 주입
api-gateway.Deployment.spec.template.spec.containers[0].resources.requests.cpu = 100m	source_6	CPU 요청
api-gateway.Deployment.spec.template.spec.containers[0].resources.requests.memory = 256Mi	source_6	메모리 요청
api-gateway.Deployment.spec.template.spec.containers[0].resources.limits.cpu = 500m	source_6	CPU 제한
api-gateway.Deployment.spec.template.spec.containers[0].resources.limits.memory = 512Mi	source_6	메모리 제한
user-service-svc.Service.metadata.labels.app = user-service	source_11	라벨(app)
user-service-svc.Service.metadata.labels.project = gift-service	source_11	라벨 (project)
user-service-svc.Service.metadata.labels.tier = backend	source_11	라벨(tier)
user-service-svc.Service.spec.selector.app = user-service	source_11	서비스 셀렉터
user-service-svc.Service.spec.type = ClusterIP	source_12	서비스 타입
user-service.Deployment (설명 주석) = user-service를 위한 Deployment 리소스	source_8	디플로이먼트 리소스 목적 설명
user-service.Deployment.spec.replicas = 1	source_8	레플리카 수

YAML 위치와 내용	참조된 Source	비고
user-service.Deployment.spec.selector.matchLabels.app = user-service	source_11	디플로이먼트 셀렉터
user-service.Deployment.spec.template.metadata.labels.app = user-service	source_11	파드 라벨 (app)
user-service.Deployment.spec.template.metadata.labels.project = gift-service	source_11	파드 라벨 (project)
user-service.Deployment.spec.template.metadata.labels.tier = backend	source_11	파드 라벨 (tier)
user-service.Deployment.spec.template.spec.containers[0].image = sk124590/user-service:2.1	source_8	컨테이너 이미지
user-service.Deployment.spec.template.spec.containers[0].envFrom.configMapRef.name = gift-config	source_8	ConfigMap 주입
user-service.Deployment.spec.template.spec.containers[0].envFrom.secretRef.name = gift-secret	source_8	Secret 주입
user-service.Deployment.spec.template.spec.containers[0].resources.requests.cpu = 150m	source_8	CPU 요청
user-service.Deployment.spec.template.spec.containers[0].resources.requests.memory = 512Mi	source_8	메모리 요청
user-service.Deployment.spec.template.spec.containers[0].resources.limits.cpu = 1000m	source_8	CPU 제한
user-service.Deployment.spec.template.spec.containers[0].resources.limits.memory = 1Gi	source_8	메모리 제한
product-service-svc.Service.metadata.labels.app = product-service	source_11	라벨(app)
product-service-svc.Service.metadata.labels.project = gift-service	source_11	라벨 (project)
product-service-svc.Service.metadata.labels.tier = backend	source_11	라벨(tier)
product-service-svc.Service.spec.selector.app = product-service	source_11	서비스 셀렉터
product-service-svc.Service.spec.type = ClusterIP	source_12	서비스 타입

YAML 위치와 내용	참조된 Source	비고
product-service.Deployment (설명 주석) = product-service를 위한 Deployment 리소스	source_10	디플로이먼트 리소스 목적 설명
product-service.Deployment.spec.replicas = 1	source_10	레플리카 수
product-service.Deployment.spec.selector.matchLabels.app = product-service	source_11	디플로이먼트 셀렉터
product-service.Deployment.spec.template.metadata.labels.app = product-service	source_11	파드 라벨 (app)
product-service.Deployment.spec.template.metadata.labels.project = gift-service	source_11	파드 라벨 (project)
product-service.Deployment.spec.template.metadata.labels.tier = backend	source_11	파드 라벨 (tier)
product-service.Deployment.spec.template.spec.containers[0].image = sk124590/product-service:2.1	source_10	컨테이너 이미지
product-service.Deployment.spec.template.spec.containers[0].resources.requests.cpu = 150m	source_10	CPU 요청
product-service.Deployment.spec.template.spec.containers[0].resources.requests.memory = 512Mi	source_10	메모리 요청
product-service.Deployment.spec.template.spec.containers[0].resources.limits.cpu = 1000m	source_10	CPU 제한
product-service.Deployment.spec.template.spec.containers[0].resources.limits.memory = 1Gi	source_10	메모리 제한
wish-service-svc.Service.metadata.labels.app = wish-service	source_11	라벨(app)
wish-service-svc.Service.metadata.labels.project = gift-service	source_11	라벨 (project)
wish-service-svc.Service.metadata.labels.tier = backend	source_11	라벨(tier)
wish-service-svc.Service.spec.selector.app = wish-service	source_11	서비스 셀렉터
wish-service-svc.Service.spec.type = ClusterIP	source_12	서비스 타입

YAML 위치와 내용	참조된 Source	비고
wish-service.Deployment (설명 주석) = wish-service를 위한 Deployment 리소스	source_4	디플로이먼트 리소스 목적 설명
wish-service.Deployment.spec.replicas = 1	source_4	레플리카수
wish-service.Deployment.spec.selector.matchLabels.app = wish-service	source_11	디플로이먼트 셀렉터
wish-service.Deployment.spec.template.metadata.labels.app = wish-service	source_11	파드 라벨 (app)
wish-service.Deployment.spec.template.metadata.labels.project = gift-service	source_11	파드 라벨 (project)
wish-service.Deployment.spec.template.metadata.labels.tier = backend	source_11	파드 라벨 (tier)
wish-service.Deployment.spec.template.spec.containers[0].image = sk124590/wish-service:2.1	source_4	컨테이너 이미지
wish-service.Deployment.spec.template.spec.containers[0].resources.requests.cpu = 100m	source_4	CPU 요청
wish-service.Deployment.spec.template.spec.containers[0].resources.requests.memory = 512Mi	source_4	메모리 요청
wish-service.Deployment.spec.template.spec.containers[0].resources.limits.cpu = 700m	source_4	CPU 제한
wish-service.Deployment.spec.template.spec.containers[0].resources.limits.memory = 1Gi	source_4	메모리 제한
order-service-svc.Service.metadata.labels.app = order-service	source_11	라벨(app)
order-service-svc.Service.metadata.labels.project = gift-service	source_11	라벨 (project)
order-service-svc.Service.metadata.labels.tier = backend	source_11	라벨(tier)
order-service-svc.Service.spec.selector.app = order-service	source_11	서비스 셀렉터
order-service-svc.Service.spec.type = ClusterIP	source_12	서비스 타입

YAML 위치와 내용	참조된 Source	비고
order-service.Deployment (설명 주석) = order-service를 위한 Deployment 리소스	source_7	디플로이먼트 리소스 목적 설명
order-service.Deployment.spec.replicas = 1	source_7	레플리카 수
order-service.Deployment.spec.selector.matchLabels.app = order-service	source_11	디플로이먼트 셀렉터
order-service.Deployment.spec.template.metadata.labels.app = order-service	source_11	파드 라벨 (app)
order-service.Deployment.spec.template.metadata.labels.project = gift-service	source_11	파드 라벨 (project)
order-service.Deployment.spec.template.metadata.labels.tier = backend	source_11	파드 라벨 (tier)
order-service.Deployment.spec.template.spec.containers[0].image = sk124590/order-service:2.1	source_7	컨테이너 이미지
order-service.Deployment.spec.template.spec.containers[0].resources.requests.cpu = 100m	source_7	CPU 요청
order-service.Deployment.spec.template.spec.containers[0].resources.requests.memory = 512Mi	source_7	메모리 요청
order-service.Deployment.spec.template.spec.containers[0].resources.limits.cpu = 700m	source_7	CPU 제한
order-service.Deployment.spec.template.spec.containers[0].resources.limits.memory = 1Gi	source_7	메모리 제한
gift-app-svc.Service.metadata.labels.app = gift-app	source_11	라벨(app)
gift-app-svc.Service.metadata.labels.project = gift-service	source_11	라벨 (project)
gift-app-svc.Service.metadata.labels.tier = frontend	source_11	라벨(tier)
gift-app-svc.Service.spec.type = LoadBalancer	source_12	서비스 타입
gift-app-svc.Service.spec.selector.app = gift-app	source_11	서비스 셀렉터

YAML 위치와 내용	참조된 Source	비고
gift-app.Deployment (설명 주석) = gift-app을 위한 Deployment 리소스	source_10	디플로이먼트 리소스 목적 설명
gift-app.Deployment.spec.replicas = 1	source_10	레플리카 수
gift-app.Deployment.spec.selector.matchLabels.app = gift-app	source_11	디플로이먼트 셀렉터
gift-app.Deployment.spec.template.metadata.labels.app = gift-app	source_11	파드 라벨 (app)
gift-app.Deployment.spec.template.metadata.labels.project = gift-service	source_11	파드 라벨 (project)
gift-app.Deployment.spec.template.metadata.labels.tier = frontend	source_11	파드 라벨 (tier)
gift-app.Deployment.spec.template.spec.containers[0].image = sk124590/gift-app:2.1	source_10	컨테이너 이미지
gift-app.Deployment.spec.template.spec.containers[0].resources.requests.cpu = 100m	source_10	CPU 요청
gift-app.Deployment.spec.template.spec.containers[0].resources.requests.memory = 512Mi	source_10	메모리 요청
gift-app.Deployment.spec.template.spec.containers[0].resources.limits.cpu = 500m	source_10	CPU 제한
gift-app.Deployment.spec.template.spec.containers[0].resources.limits.memory = 1Gi	source_10	메모리 제한