

```

apiVersion: v1
kind: Secret
metadata:
  name: gift-secret
  labels:
    app: gift-service
    project: gift-service
    tier: backend
# 민감 정보는 Base64로 인코딩되어 저장됩니다.
data:
  JWT_SECRET: WW4ya2ppYmRkRkFXdG5QSjJBRmxMOFdYbW9oSk1Ddm1nUWdnYUV5cGE1RT0=
  KAKAO_CLIENT_ID: YWMYMGQ4NGY5N2I2NzlmMGJiZDlhODA2NWJhODIzZjM=
  KAKAO_CLIENT_SECRET: RnczSm1MNVBrcGV2WFZaOU9pVk04YmZiZ0hVUEQ1RUE=
---
apiVersion: v1
kind: ConfigMap
metadata:
  name: gift-config
  labels:
    app: gift-service
    project: gift-service
    tier: backend
data:
  SERVICE_PRODUCT_URI: "http://product-service-svc:8081"
  KAKAO_REDIRECT_URI: "http://localhost:8080/members/login/oauth2/code/kakao"
  API_GATEWAY_URI: "http://api-gateway-svc:8080"
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: api-gateway
  labels:
    app: api-gateway
    project: gift-service
    tier: backend
spec:
  replicas: 1
  selector:
    matchLabels:
      app: api-gateway
  template:
    metadata:
      labels:
        app: api-gateway
        project: gift-service
        tier: backend
    spec:
      containers:
        - name: api-gateway
          image: sk124590/api-gateway:2.1
          ports:
            - containerPort: 8080

```

```
    envFrom:
      - configMapRef:
          name: gift-config
      - secretRef:
          name: gift-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
  spec:
    ports:
      - port: 8080
        targetPort: 8080
    selector:
      app: api-gateway
    type: ClusterIP
  ---
  apiVersion: apps/v1
  kind: Deployment
  metadata:
    name: user-service
    labels:
      app: user-service
      project: gift-service
      tier: backend
  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
```

```
    envFrom:
      - configMapRef:
          name: gift-config
      - secretRef:
          name: gift-secret
    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
  spec:
    ports:
      - port: 8084
        targetPort: 8084
    selector:
      app: user-service
    type: ClusterIP
  ---
  apiVersion: apps/v1
  kind: Deployment
  metadata:
    name: product-service
    labels:
      app: product-service
      project: gift-service
      tier: backend
  spec:
    replicas: 1
    selector:
      matchLabels:
        app: product-service
    template:
      metadata:
        labels:
          app: product-service
          project: gift-service
          tier: backend
      spec:
        containers:
          - name: product-service
            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
spec:
  ports:
    - port: 8081
      targetPort: 8081
  selector:
    app: product-service
  type: ClusterIP
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wish-service
  labels:
    app: wish-service
    project: gift-service
    tier: backend
spec:
  replicas: 1
  selector:
    matchLabels:
      app: wish-service
  template:
    metadata:
      labels:
        app: wish-service
        project: gift-service
        tier: backend
    spec:
      containers:
        - name: wish-service
          image: sk124590/wish-service:2.1
          ports:
            - containerPort: 8082
          envFrom:
            - configMapRef:
                name: gift-config
          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
spec:
  ports:
    - port: 8082
      targetPort: 8082
  selector:
    app: wish-service
  type: ClusterIP
  ---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: order-service
  labels:
    app: order-service
    project: gift-service
    tier: backend
spec:
  replicas: 1
  selector:
    matchLabels:
      app: order-service
  template:
    metadata:
      labels:
        app: order-service
        project: gift-service
        tier: backend
    spec:
      containers:
        - name: order-service
          image: sk124590/order-service:2.1
          ports:
            - containerPort: 8083
          envFrom:
            - configMapRef:
                name: gift-config
            - secretRef:
                name: gift-secret
          resources:
            requests:
```

```
      cpu: "100m"
      memory: "512Mi"
    limits:
      cpu: "500m"
      memory: "512Mi"
  ---
apiVersion: v1
kind: Service
metadata:
  name: order-service-svc
  labels:
    app: order-service
    project: gift-service
    tier: backend
spec:
  ports:
    - port: 8083
      targetPort: 8083
  selector:
    app: order-service
  type: ClusterIP
  ---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: gift-app
  labels:
    app: gift-app
    project: gift-service
    tier: frontend
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
          envFrom:
            - configMapRef:
                name: gift-config
            - secretRef:
                name: gift-secret
          resources:
            requests:
```

```
      cpu: "100m"
      memory: "512Mi"
    limits:
      cpu: "700m"
      memory: "1Gi"
  ---
  apiVersion: v1
  kind: Service
  metadata:
    name: gift-app-svc
    labels:
      app: gift-app
      project: gift-service
      tier: frontend
  spec:
    ports:
      - port: 8080
        targetPort: 8085
    selector:
      app: gift-app
    type: LoadBalancer
```

YAML 위치와 내용	참조된 Source	비고
Secret.data.JWT_SECRET = WW4ya2...	source_5, source_6, source_7, source_8, source_10	JWT 시크릿 값 (Base64 인코딩)
Secret.data.KAKAO_CLIENT_ID = YWMyMG...	source_6, source_8, source_10	카카오 클라이언트 ID (Base64 인코딩)
Secret.data.KAKAO_CLIENT_SECRET = RnczSm1M...	source_6, source_8, source_10	카카오 클라이언트 Secret (Base64 인코딩)
ConfigMap.data.SERVICE_PRODUCT_URI = http://product-service-svc:8081	source_5, source_9, source_10	product-service 내부 DNS 주소
ConfigMap.data.KAKAO_REDIRECT_URI = http://localhost:8080/members/login/oauth2/code/kakao	source_6, source_7	카카오 로그인 Redirect URI

YAML 위치와 내용	참조된 Source	비고
<code>ConfigMap.data.API_GATEWAY_URI = http://api-gateway-svc:8080</code>	source_7	API Gateway 내부 DNS 주소
<code>api-gateway.Deployment.spec.containers[0].image = sk124590/api-gateway:2.1</code>	source_5	api-gateway 컨테이너 이미지
<code>api-gateway.Deployment.spec.containers[0].resources.requests/limits</code>	source_5	CPU/메모리 요청 및 제한 값
<code>user-service.Deployment.spec.containers[0].image = sk124590/user-service:2.1</code>	source_6	user-service 컨테이너 이미지
<code>user-service.Deployment.spec.containers[0].resources.requests/limits</code>	source_6	CPU/메모리 요청 및 제한 값
<code>product-service.Deployment.spec.containers[0].image = sk124590/product-service:2.1</code>	source_8	product-service 컨테이너 이미지
<code>product-service.Deployment.spec.containers[0].resources.requests/limits</code>	source_8	CPU/메모리 요청 및 제한 값
<code>wish-service.Deployment.spec.containers[0].image = sk124590/wish-service:2.1</code>	source_9	wish-service 컨테이너 이미지
<code>wish-service.Deployment.spec.containers[0].resources.requests/limits</code>	source_9	CPU/메모리 요청 및 제한 값
<code>order-service.Deployment.spec.containers[0].image = sk124590/order-service:2.1</code>	source_10	order-service 컨테이너 이미지
<code>order-service.Deployment.spec.containers[0].resources.requests/limits</code>	source_10	CPU/메모리 요청 및 제한 값
<code>gift-app.Deployment.spec.containers[0].image = sk124590/gift-app:2.1</code>	source_7	gift-app 컨테이너 이미지

YAML 위치와 내용	참조된 Source	비고
gift-app.Deployment.spec.containers[0].resources.requests/limits	source_7	CPU/메모리 요청 및 제한 값
모든 Deployment.spec.replicas = 1	source_5, source_6, source_7, source_8, source_9, source_10, source_11	마이크로서비스별 복제 수 기본값
모든 metadata.labels(app, project, tier)`	source_11	공통 레이블 정책 (app, project, tier 필수)
모든 Service.spec.type = ClusterIP (단 gift-app-svc는 LoadBalancer)	source_4	서비스 노출 정책: gift-app만 외부 LoadBalancer, 나머지는 ClusterIP

특징: 배포 실패. configMap에 서비스 URI가 모두 정의되지 않아서 필요한 환경변수를 주입해주지 못함