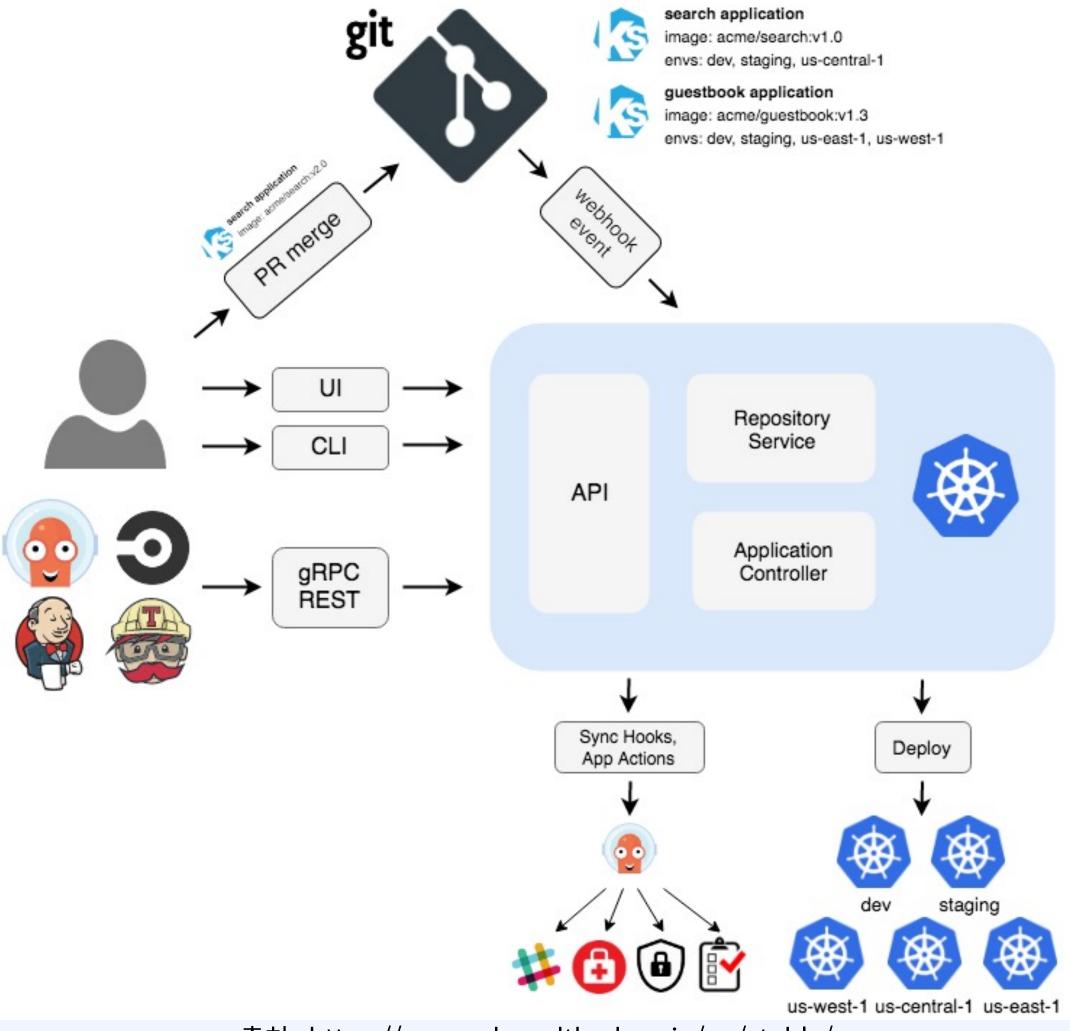


### ArgoCD란?



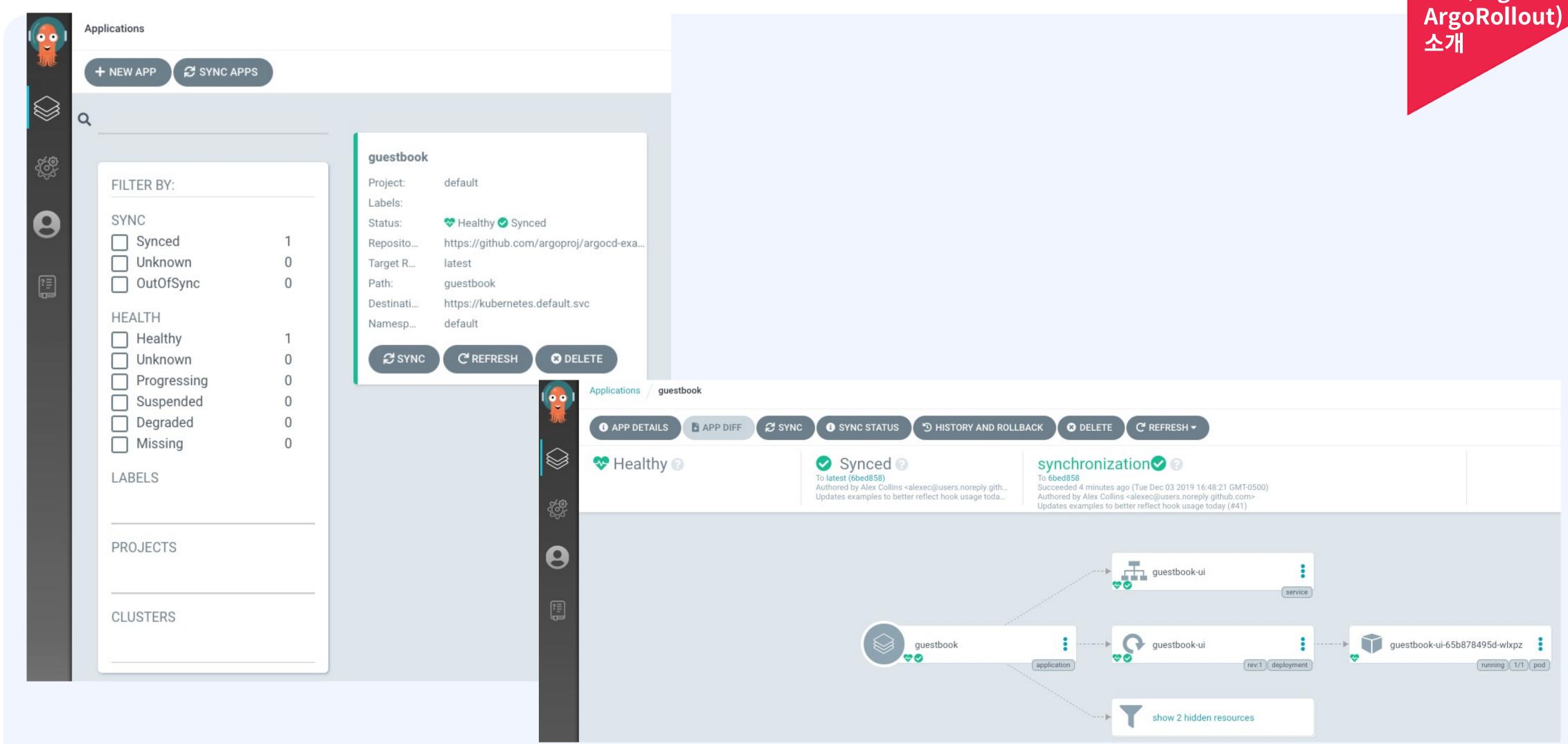
출처: https://argo-cd.readthedocs.io/en/stable/

### ArgoCD 특징

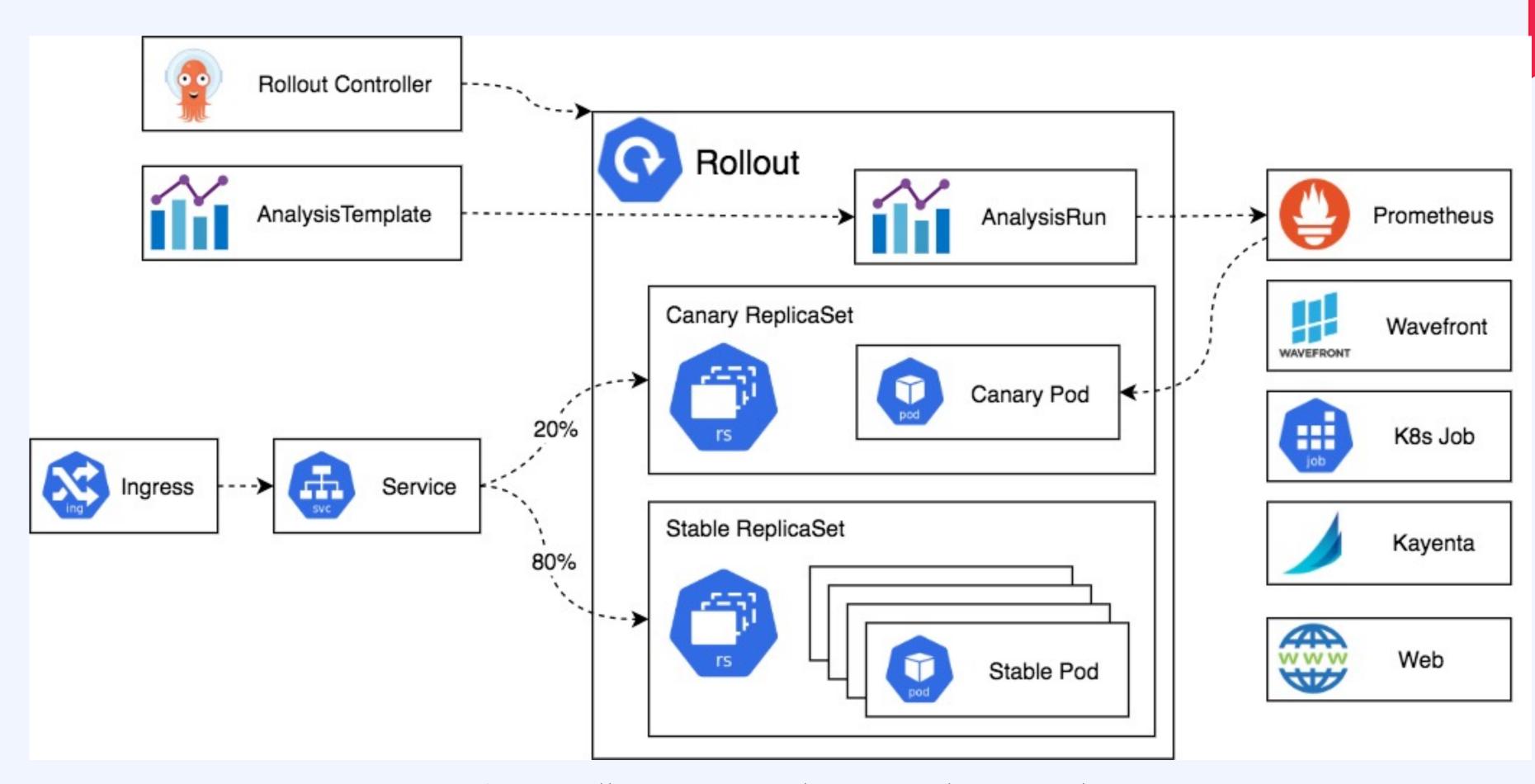
- 지정된 대상 환경에 애플리케이션 자동 배포
- 다양한 방식의 템플릿 Manifest 지원(Kustomize, Helm, Plain-YAML)
- Git Repository 내 커밋된 애플리케이션 대상 업데이트/롤백
- GitOps기준의 원하는 상태(Desired State)로 자동 또는 수동 동기화
- 애플리케이션 배포/실행 상태의 실시간 동기화/헬스체크를 제공하는 웹 UI
- 다양한 Git 저장소의 Webhook 지원(GitHub, BitBucket, GitLab)

#### ArgoCD Web UI

O3.
Kubernetes
배포
도구(ArgoCD,
ArgoRollout)
소개



#### Argo Rollout이란?



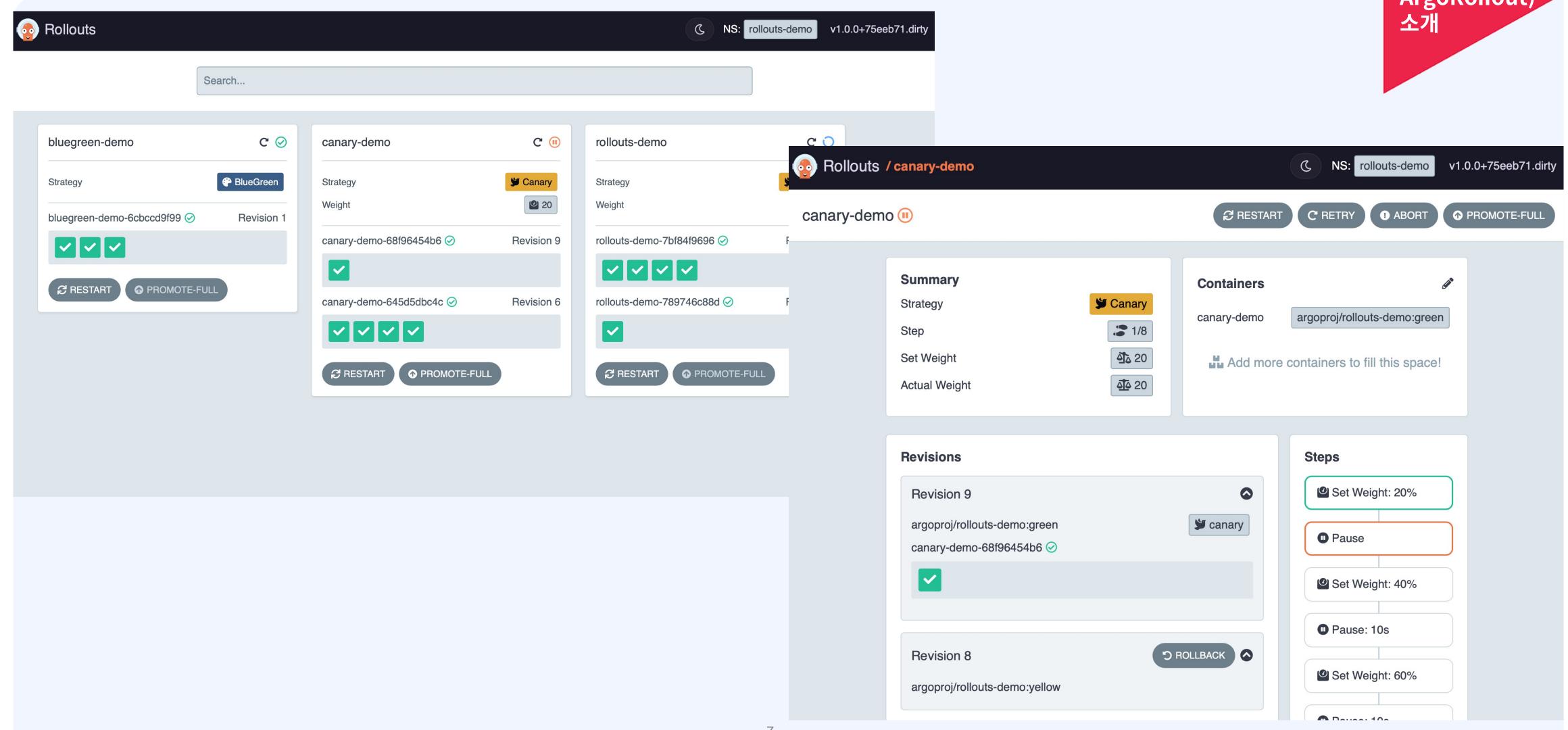
출처: https://argoproj.github.io/argo-rollouts/architecture/

### Argo Rollout 특징

- Blue/Green 배포 지원
- Canary 배포 지원
- 세분화된 가중치 적용 트래픽 라우팅
- 자동화된 롤백 적용 가능
- Ingress Controller 통합: AWS ALB, NGINX등
- Service Mesh 통합: Istio, Linkerd, SMI등

### **Argo Rollout UI**

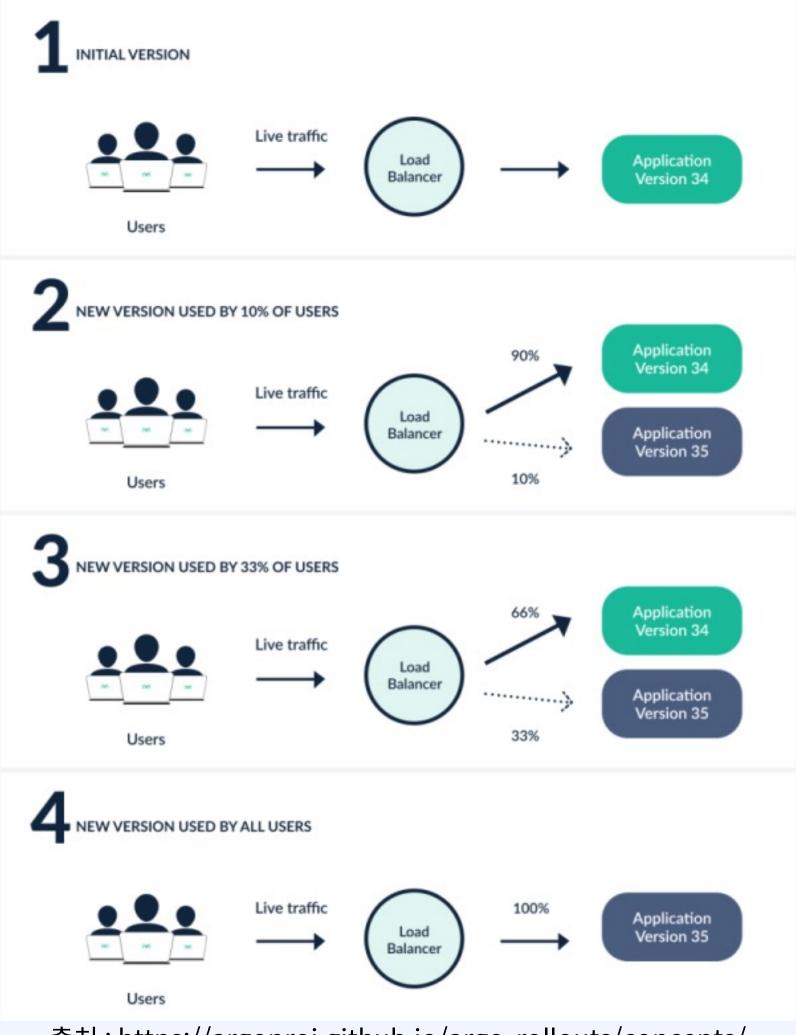




### Argo Rollout 배포 방식 – Blue/Green 배포



### Argo Rollout 배포 방식 – Canary 배포



출처: https://argoproj.github.io/argo-rollouts/concepts/

#### Argo Rollout Canary 배포 실행 예

```
rollouts-demo
Name:
                 default
Namespace:
                 Ⅱ Paused
Status:
Strategy:
                 Canary
  Step:
                 1/8
                 20
  SetWeight:
  ActualWeight:
                20
                 argoproj/rollouts-demo:blue (stable)
Images:
                 argoproj/rollouts-demo:yellow (canary)
Replicas:
  Desired:
                 5
  Current:
  Updated:
  Ready:
  Available:
NAME
                                          KIND
                                                      STATUS
                                                                 AGE INFO
                                           Rollout

○ rollouts-demo

                                                      II Paused
                                                                 10m
   -# revision:2
   □ rollouts-demo-789746c88d
                                          ReplicaSet ✓ Healthy 40s canary
      └──□ rollouts-demo-789746c88d-qkxrh
                                                      ✓ Running 40s ready:1/1
  -# revision:1
   —— rollouts-demo-7bf84f9696
                                          ReplicaSet / Healthy 10m stable
       —□ rollouts-demo-7bf84f9696-8m8fk
                                                      ✓ Running 10m ready:1/1
                                          Pod
        —□ rollouts-demo-7bf84f9696-lmbtk Pod
                                                      ✓ Running 10m ready:1/1
        —□ rollouts-demo-7bf84f9696-msbtk Pod
                                                       ✓ Running 10m ready:1/1
                                                      ✓ Running 10m ready:1/1
        —□ rollouts-demo-7bf84f9696-qllf5 Pod
```

출처: https://argoproj.github.io/argo-rollouts/getting-started/

#### CI/CD Pipeline에서의 ArgoCD와 Argo Rollout 적용

03. Kubernetes 배포 도구(ArgoCD, **ArgoRollout**)

