

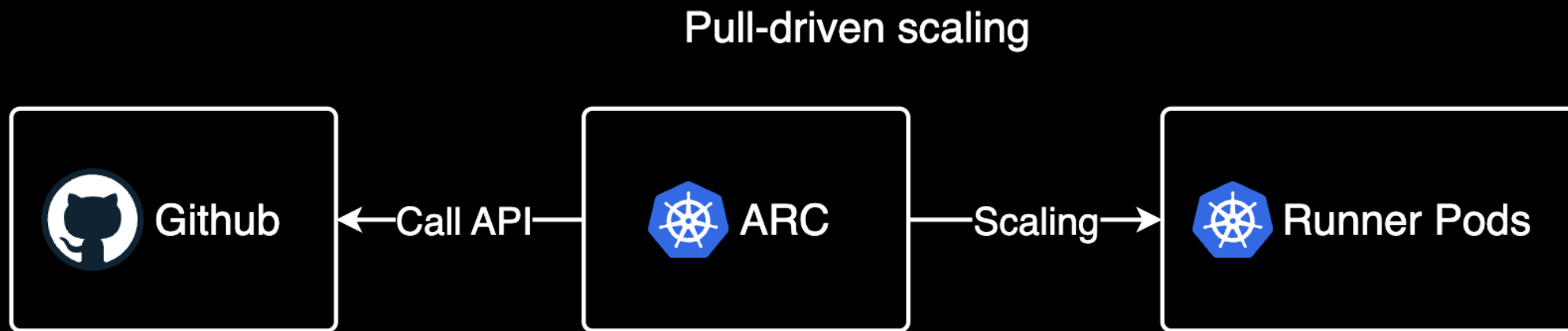
Actions Runner Controller Scaling

Scale-zero로 러너 컴퓨팅 비용 절감하기

Topics

- **Actions Runner Controller의 스케일링 방식**
- **Webhook-driven scaling 구현 방법**
- **Scale zero 설정시 주의사항**

Actions Runner Controller의 스케일링 방식



Actions Runner Controller의 스케일링 방식

Webhook-driven scaling



ARC에서 권장하는 스케일링 방식

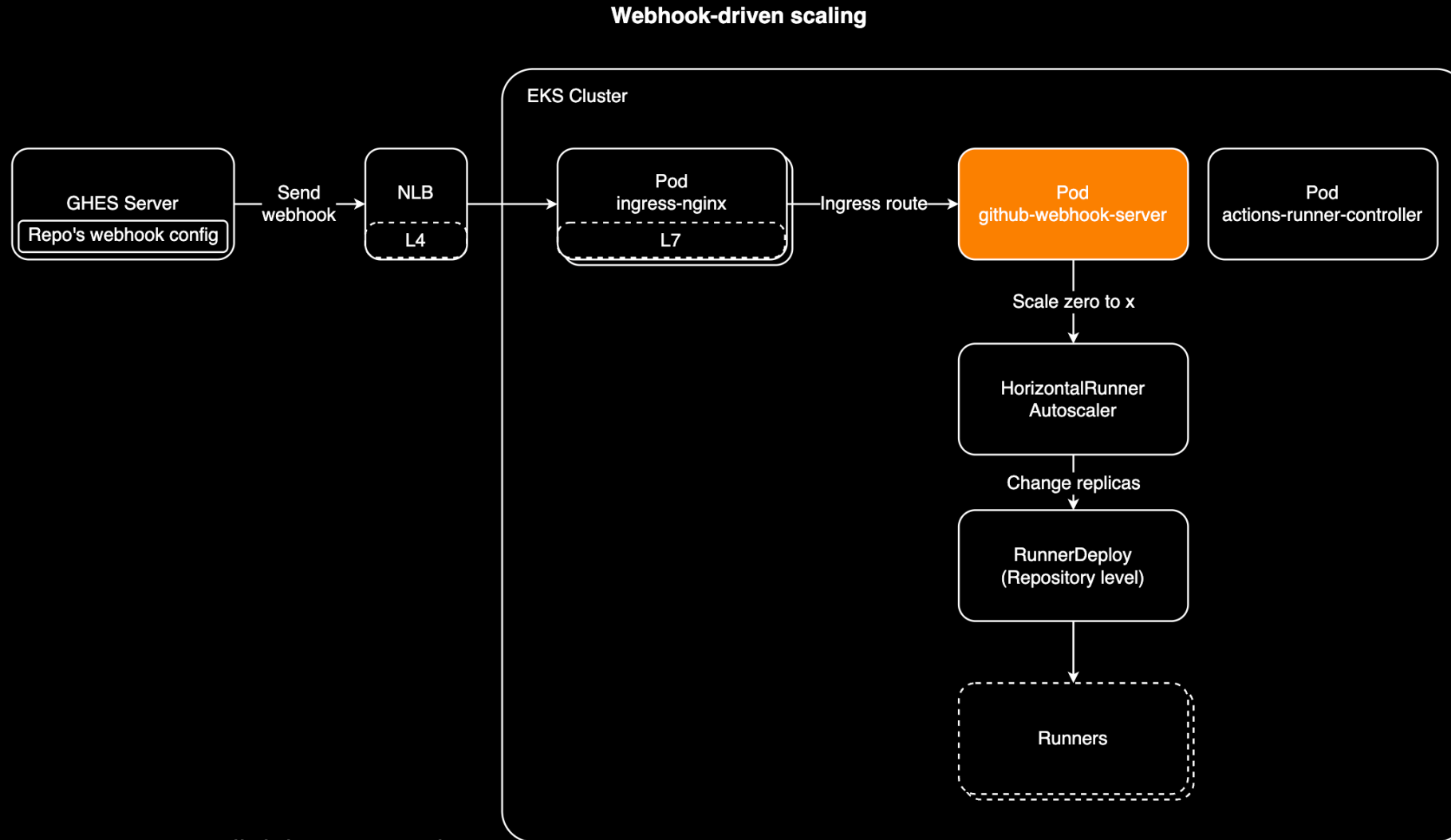
Pull-driven scaling

Webhook-driven scaling

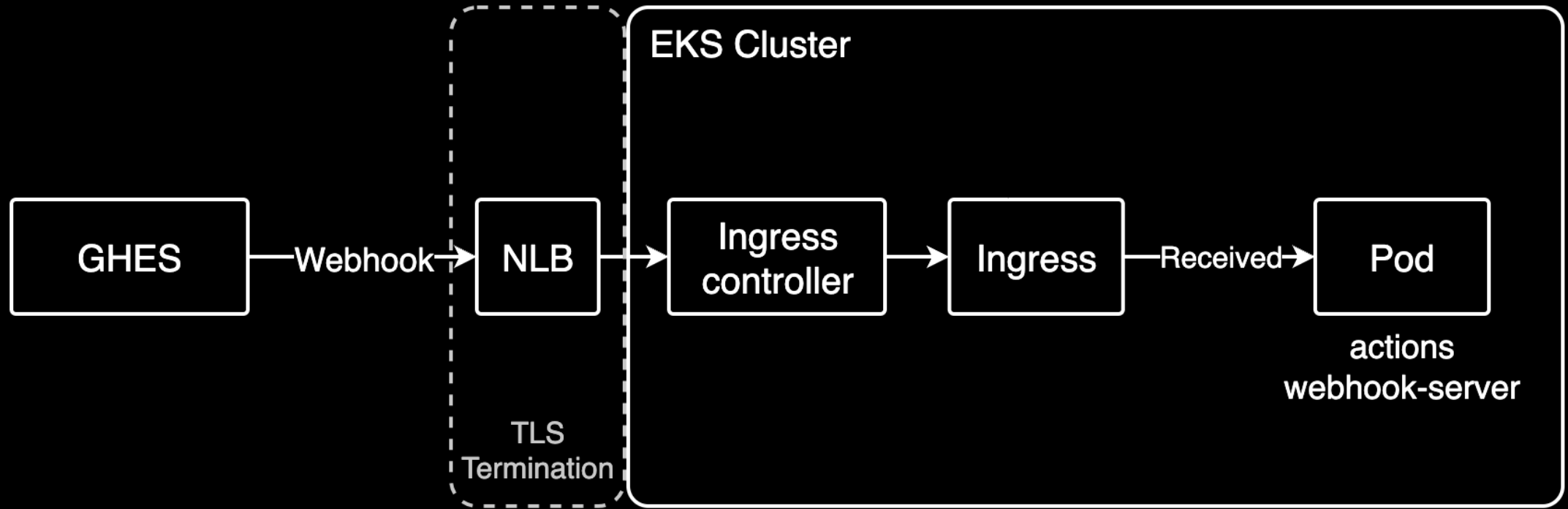
Recommended

반응 빠름, Scale zero 가능, 안전함 (Github API Rate Limit 영향 받지 않음)

Actions Runner Controller 아키텍처



웹훅의 여정



HorizontalRunnerAutoscaler 설정

```
apiVersion: actions.summerwind.dev/v1alpha1
kind: HorizontalRunnerAutoscaler
metadata:
  name: scalezero-test-runner-hra
  namespace: actions-runner
spec:
  # You can set minReplicas to 0 to enable scale-to-zero functionality
  minReplicas: 0
  maxReplicas: 5
  scaleTargetRef:
    kind: RunnerDeployment
    name: scalezero-test-runner
  scaleUpTriggers:
    - amount: 1
      duration: 5m
      githubEvent:
        # Workflow job queued, waiting, in progress, or completed on a repository
        workflowJob: {}
```


RunnerDeployment 설정 및 주의사항

```
apiVersion: actions.summerwind.dev/v1alpha1
kind: RunnerDeployment
metadata:
  name: scalezero-test-runner
  namespace: actions-runner
spec:
  template:
    spec:
      labels:
        - self-hosted # Explicitly add this label for GHES
        - linux # Explicitly add this label for GHES
        - test-runner
      repository: ORGANIZATION_NAME/REPO_NAME
```

⚠ runnerDeployment에 러너에 자동생성되는 라벨도 명시적(Explicitly)으로 추가해야 ARC 웹훅 서버가 웹훅 이벤트를 받아 스케일링 대상(scale target)을 인식할 수 있습니다.

EOD.