Container

Container Registry

Easy Storage, Management, and Sharing of Container Images

Container Registry offers a cloud registry for convenient storage, management, and sharing of container images and OCI(Open Container Initiative) standard artifacts. Image management and deployment are available anytime anywhere on Samsung Cloud Platform.

Simple Registry Management and Image Deployment

Container Registry for projects can easily be created on Samsung Cloud Platform. Images for deployment can be pulled from the Registry using the standard Docker CLI(Command Line Interface) to streamline development and service deployment flows. In addition, configuring redundancy for container image repository using DR registry feature is possible.

Efficient Container Image Storage

Through integration with Object Storage, the storage capacity of a registry can be configured as unlimited, and container images can be stored and pulled, allowing for efficient management. Docker Registry V2 API spec is also supported for user convenience.
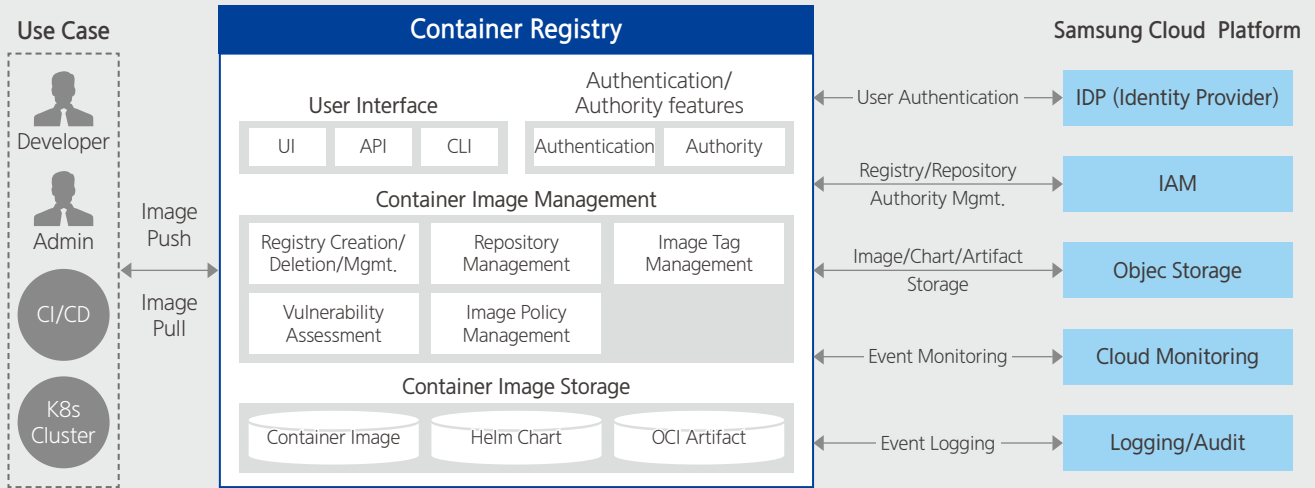
More Secure Registry Management

Images can be securely stored and used with Container Registry service. The service encrypts and stores the images in Object Storage and sends them via HTTPS. Access authority is set by repository according to the IAM resource-based policy of Samsung Cloud Platform and allows image usage as per the set authority.

Container Image Vulnerability Assessment

Container Registry offers assessment on security vulnerabilities of stored container images. Uses may simply select and scan an image to find the analysis and identify/remove vulnerabilities based on the result.

Service Architecture

Container Registry

Use Case

Developer

Admin

Image Push

Image Pull

CI/CD

K8s Cluster

Container Registry

User Interface | Authentication/Authority features

UI | API | CLI | Authentication | Authority

Container Image Management

Registry Creation/Deletion/Mgmt. | Repository Management | Image Tag Management

Vulnerability Assessment | Image Policy Management

Container Image Storage

Container Image | Helm Chart | OCI Artifact

Samsung Cloud Platform

User Authentication → IDP (Identity Provider)

Registry/Repository Authority Mgmt. → IAM

Image/Chart/Artifact Storage → Objec Storage

Event Monitoring → Cloud Monitoring

Event Logging → Logging/Audit

Key Features

- **Registry management**
  - Manage the creation/deletion of a registry
  - Manage registry access control
  - Manage used/unused DR registry

- **Image management**
  - Tag management : Push, pull, view and delete images
  - Repository management : View and delete repository, set security policy

- **Vulnerability assessment of images**
  - Provide Common Vulnerability Exposure(CVE)-based vulnerability scanning and results :
    Container image, package, secret, language package

- **Collaboration and access control**
  - Authority management on IAM(Identity and Access Management)-based registry and repository
  - Usage monitoring
  - Logging : registry, repository, and image tagged events

Pricing

- **Billing**
  - Registry service : Stored data amount X Used hours(per hour)
    ※ As per connected Object Storage bucket
  - Image scanning : Charge by number of scans