12-secret

Secret What it is `Secret` stores sensitive data (credentials, keys, tokens) in Kubernetes. When to use DB passwords API tokens TLS certificates (`kubernetes.io/tls`) Key fields `type: Opaque`, `kubernetes.io/tls`, etc. `data:` base64-encoded values `stringData:` plaintext convenience (server encodes to `data`) Common commands `bash kubectl get secrets kubectl create secret generic db-credentials --from-literal=username=app --from-literal=password='S3cure!' kubectl create secret tls app-tls --cert=tls.crt --key=tls.key kubectl describe secret db-credentials kubectl delete secret db-credentials` YAML example `yaml apiVersion: v1 kind: Secret metadata: name: db-credentials type: Opaque stringData: username: app password: S3cure!` Practical notes Base64 is encoding, not encryption. Enable encryption at rest in cluster configuration. Restrict access with least-privilege RBAC.