Kubernetes Control Plane

- API Server

Rok CSI Controller Pod
- External Attacher
- External Provisioner
- CSI Controller

Rok ETCD Pod
- ETCD

Kubernetes Node 1

Kubernetes Node 2

- Kubelet

Rok CSI Node Pod
- CSI Node
- Node Driver Registrar

- Logical Volume Manager
- Logical Volume
- Rok Volume Group (Rok VG)
- Physical Voilume
- Physical Voilume
- Physical Voilume

1. The **External Provisioner** sidecar interacts with the **API Server** over the network.

2. The **External Attacher** sidecar interacts with the **API Server** over the network.

3. The **External Attacher** sidecar interacts with the **CSI Controller** plugin using gRPC calls over a UNIX domain socket on the host.

4. The **External Provisioner** sidecar interacts with the **CSI Controller** plugin using gRPC calls over a UNIX domain socket on the host.

5. The **CSI Controller** plugin interacts with the **Rok ETCD Server** over the network, in order jobs that the CSI Node plugins shall execute.

6. The **CSI Node** plugin interacts with the **Rok ETCD Server** over the network, in order to get informed for jobs that it shall execute.

7. The **CSI Node** plugin interacts with the **Logical Volume Manager** directly on the hose, in order to manage the storage on the host.

8. The **Node Driver Registrar** interacts with the **Kubelet** using gRPC calls over a UNIX domain socket on the host, in order to register the CSI Plugin.

9. The **Node Driver Registrar** interacts with the **CSI Node** using gRPC calls over a UNIX domain socket on the host.

10. The **Kubelet** interacts with the **CSI Node** using gRPC calls over a UNIX domain socket on the host.