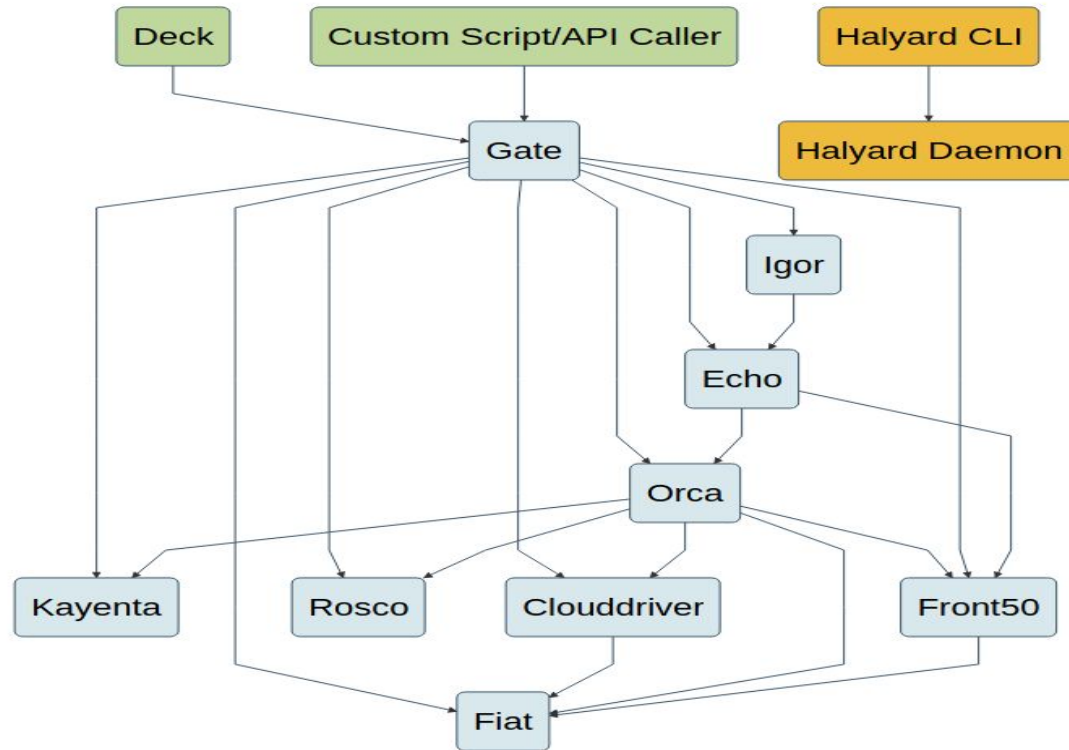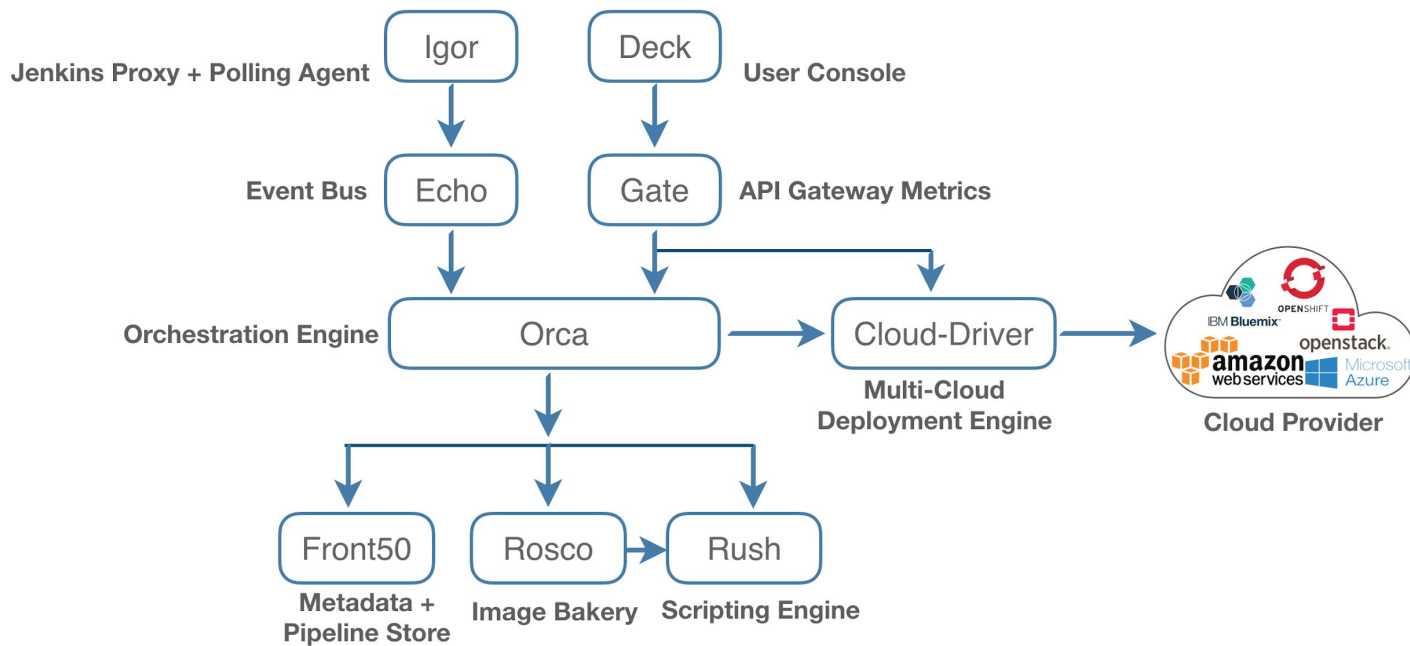# Spinnaker Architecture

By OpxMx

Architecture

- Spinnaker Consists of number of Individual Components and they are Microservice architecture.
- The Major Components are :-
    - Deck - (UI to Access Spinnaker)
    - Gate - (Manages All API Calls)
    - Orca - (Orchestration Engine, Responsible for Pipeline and other operations.)
    - Cloud-Driver - (Responsible to Make calls to Different Providers Eg:- AWS,Azure,Google …)
    - Front50 - (Hold Metadata of Application, Pipeline, Project, Notifications)
    - Rosco - (Responsible for producing immutable VM Images)
    - Igor - (Responsible to trigger pipeline)
    - Echo - (Responsible for Event Triggers, send notification to Slack,E-mail and so on..)
    - Fiat - (Responsible for Authorization in Spinnaker)
    - Kayenta - (Responsible for Canary Analysis)
    - Halyard - (Responsible for Managing all Spinnaker services and configuration using CLI, using this we can update, rollback and so on..,)

Architecture

Architecture

System Dependencies/Architecture of Spinnaker

Ports Used

Service	Port
Clouddriver	7002
Deck	9000
Echo	8089
Fiat	7003
Front50	8080
Gate	8084
Halyard	8064
Igot	8088
Kayenta	8090
Orca	8083

OpsMx Spinnaker

Thank You :)