

# SQL Server on AKS

- Cloud Data Architect
- SQL Server
- PowerShell
- Kubernetes
- <https://github.com/ravilobo>

Ravi Lobo

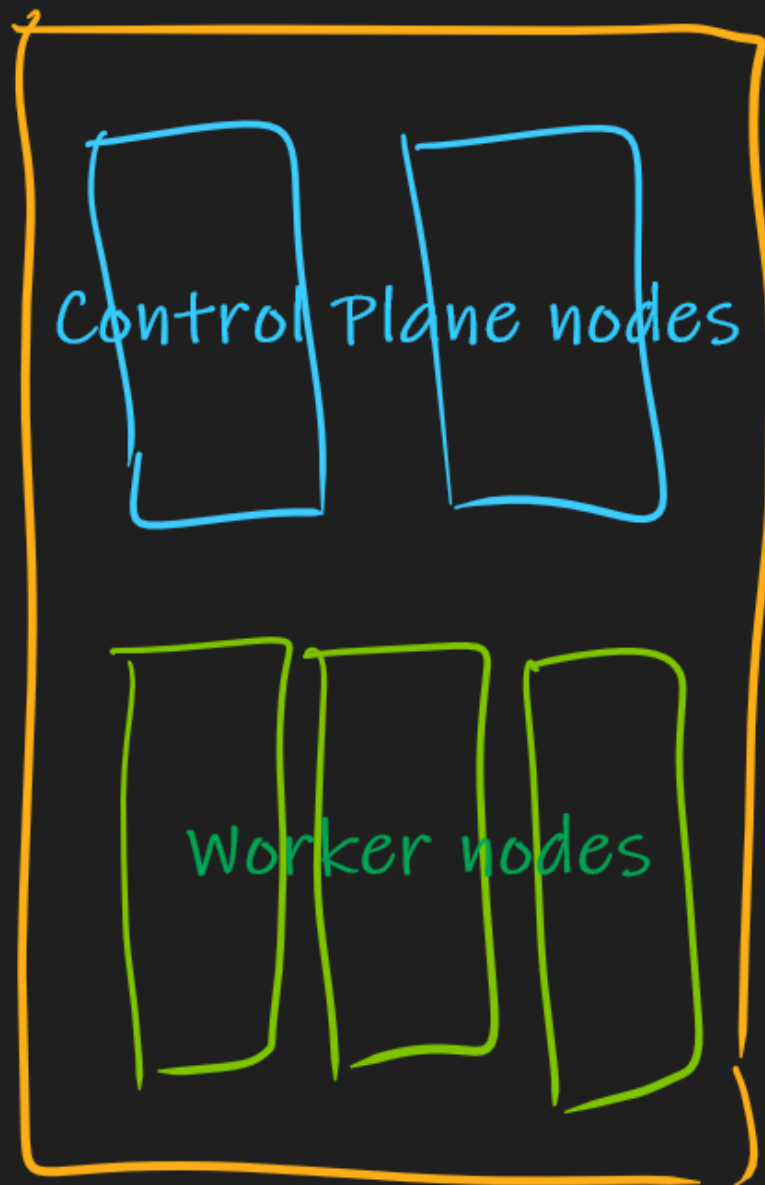
@ravi\_lobo

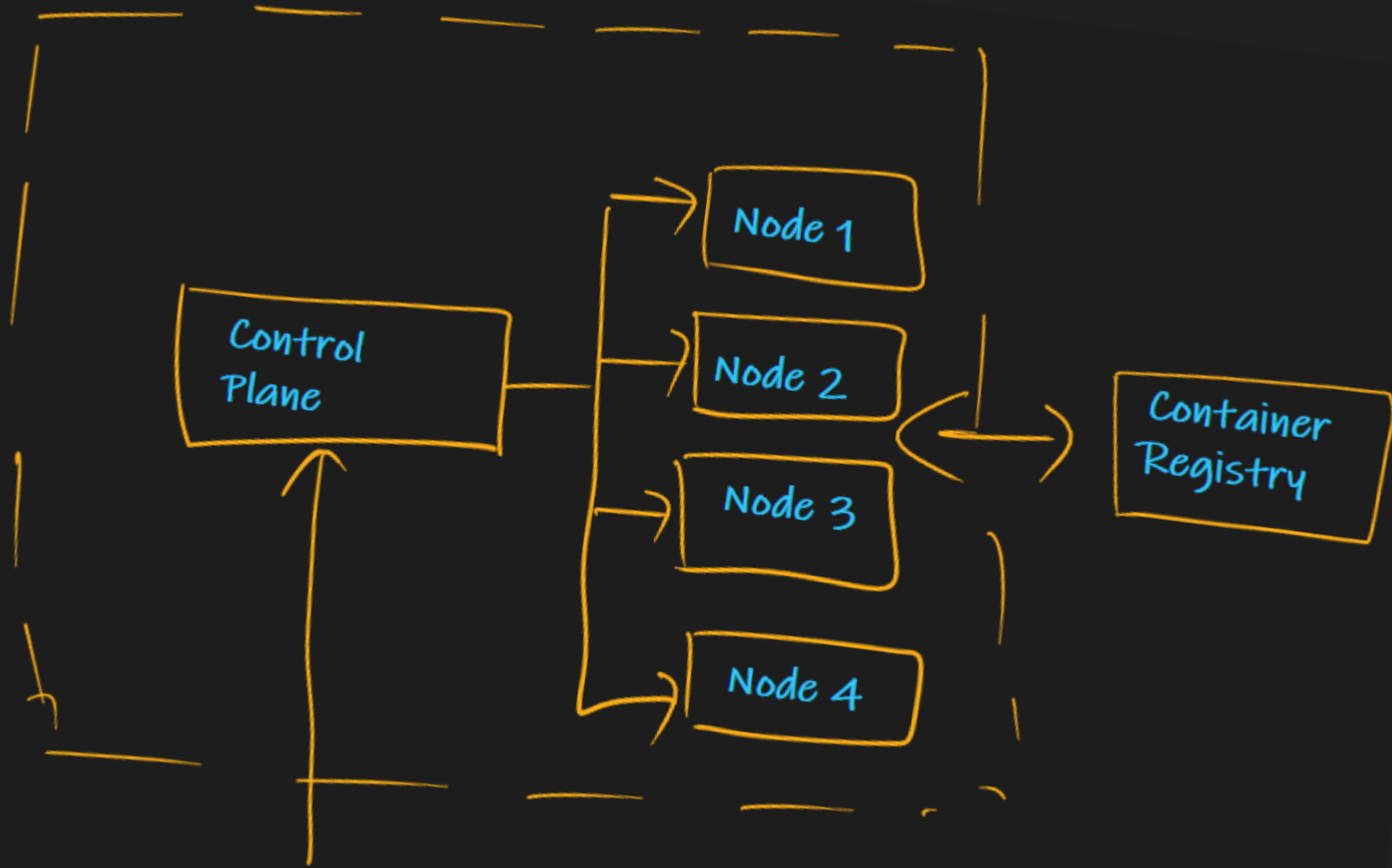


A diagram consisting of a large orange rounded rectangle containing two smaller rounded rectangles. The top rectangle is outlined in blue and contains the text 'Control Plane nodes'. The bottom rectangle is outlined in green and contains the text 'Worker nodes'.

Control Plane nodes

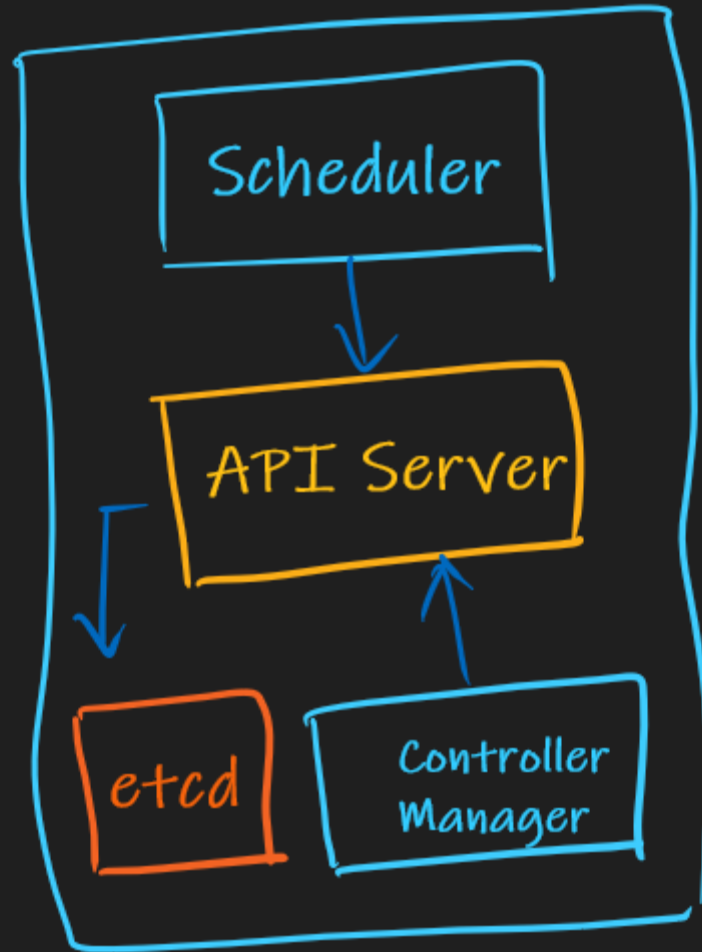
Worker nodes



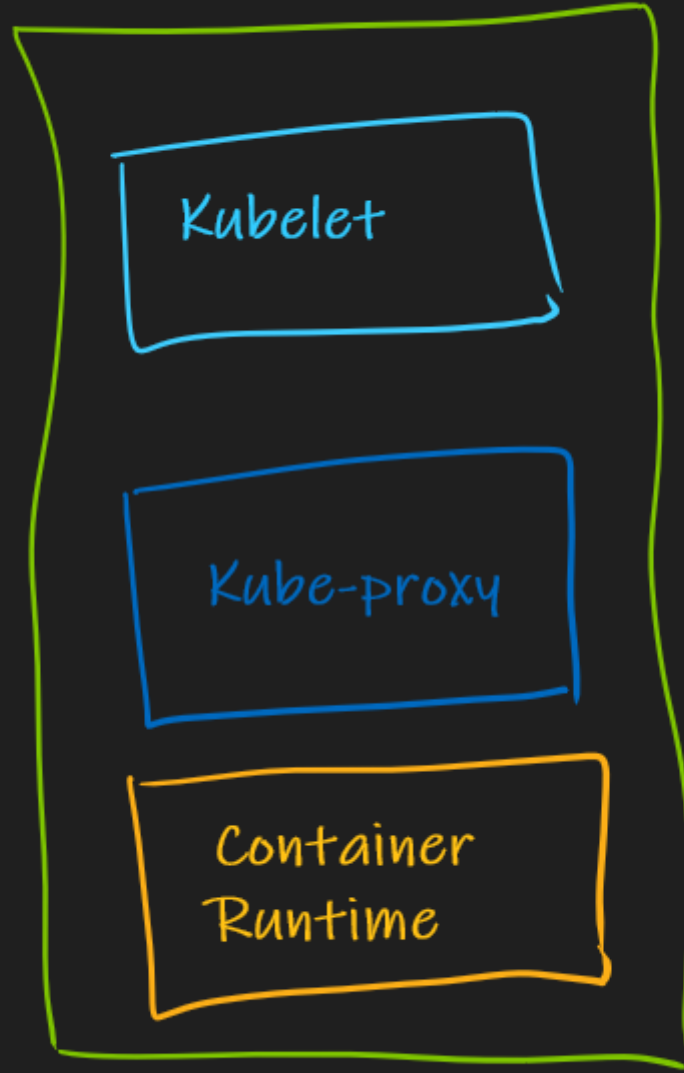


API Calls

## Control Plane Node



## Worker Node

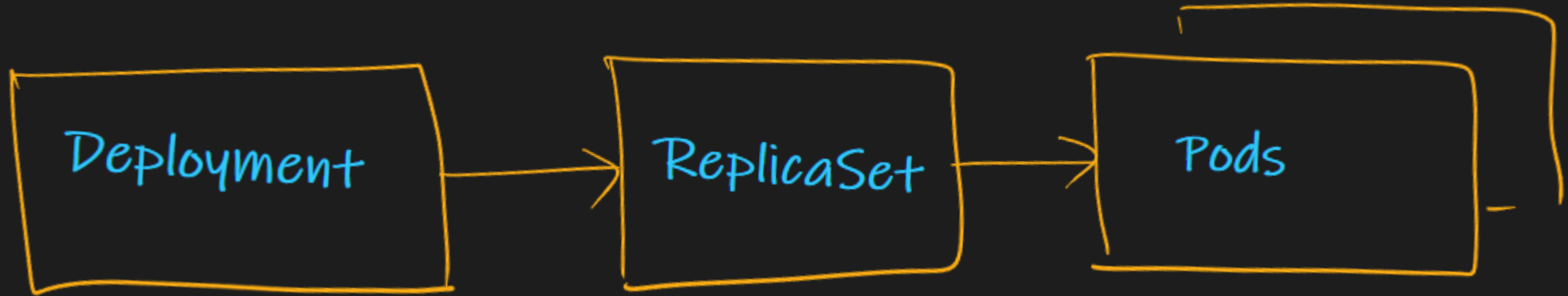


# Pods

- Basic scaling unit
- Ephemeral
  - Cattle
- Immutable
- Host containers



# Controllers







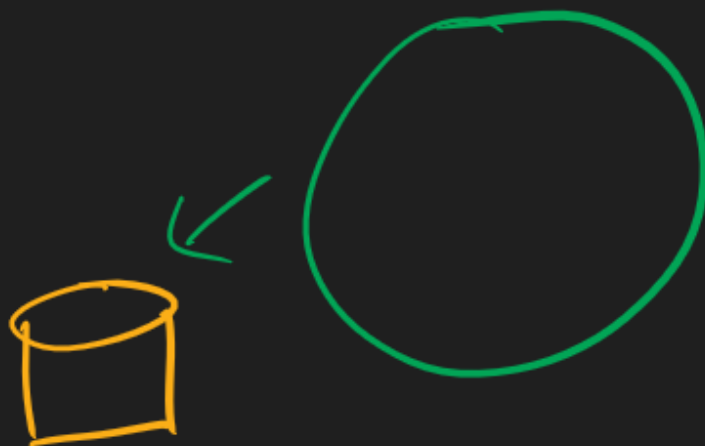


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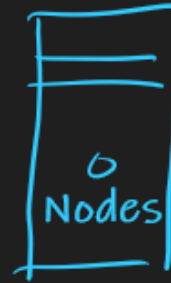














# Features

- Self-healing
- Immutable
  - No patching
  - YAML represents the end-state
- User experience

# Deploying AKS

- Azure portal
- PowerShell
- ARM templates
- Azure CLI

# Logistics

- Azure subscription
- Client tools
  - Azure CLI
  - Kubectl
  - VS Code
  - Azure Data Studio
  - Lens

What is AKS?

# Benefits

- Free\*
- PaaS
- Pause AKS

Why SQL Server on AKS?