# Walmart Private Cloud Rebalance



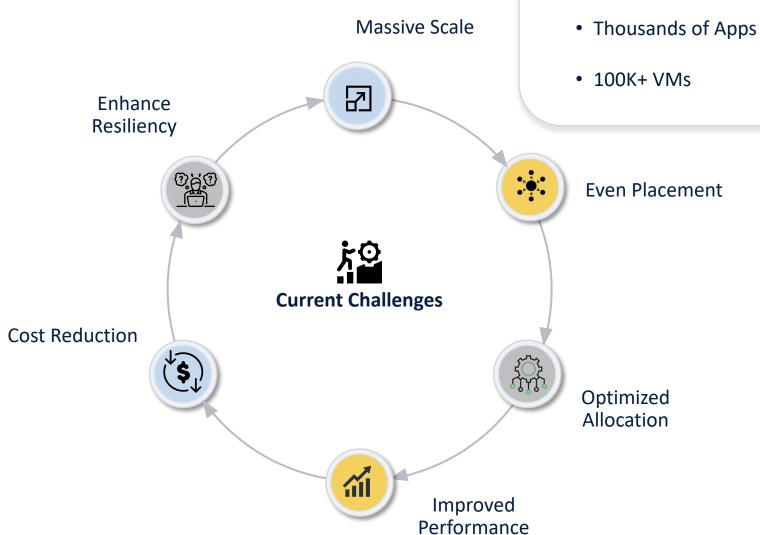








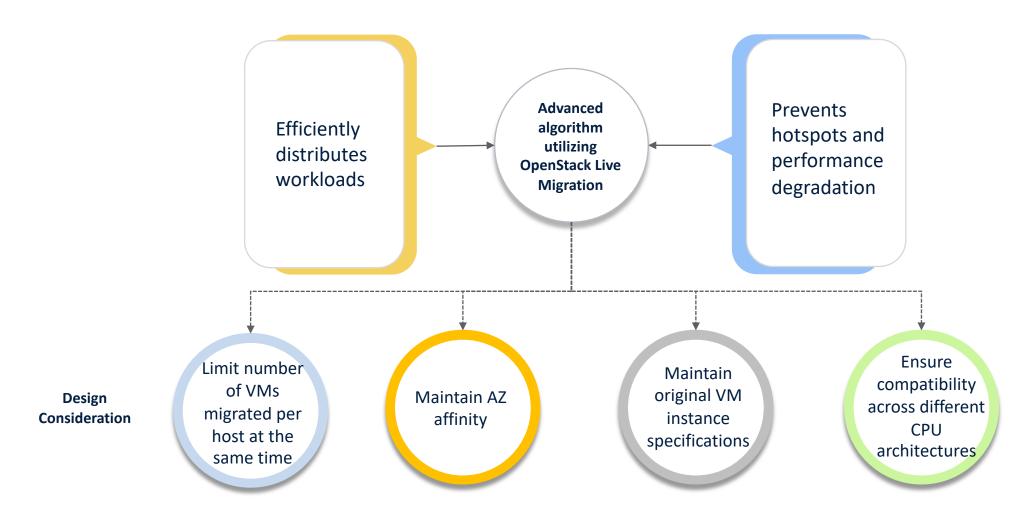
# Why Do We Need Rebalance?



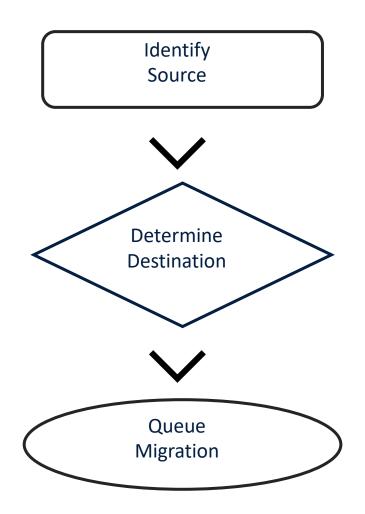
Multiple Openstack Endpoints

Couple Of Millions Physical Cores

### What is Cloud Rebalance?



## How does it work? (Rebalance Architecture/Flow)

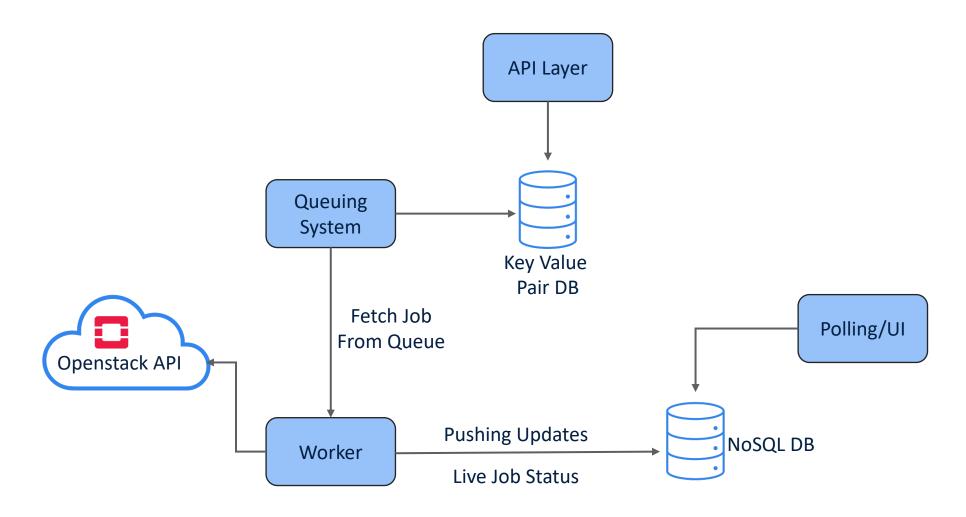


App-based distribution Node CPU Load Instance CPU Steal

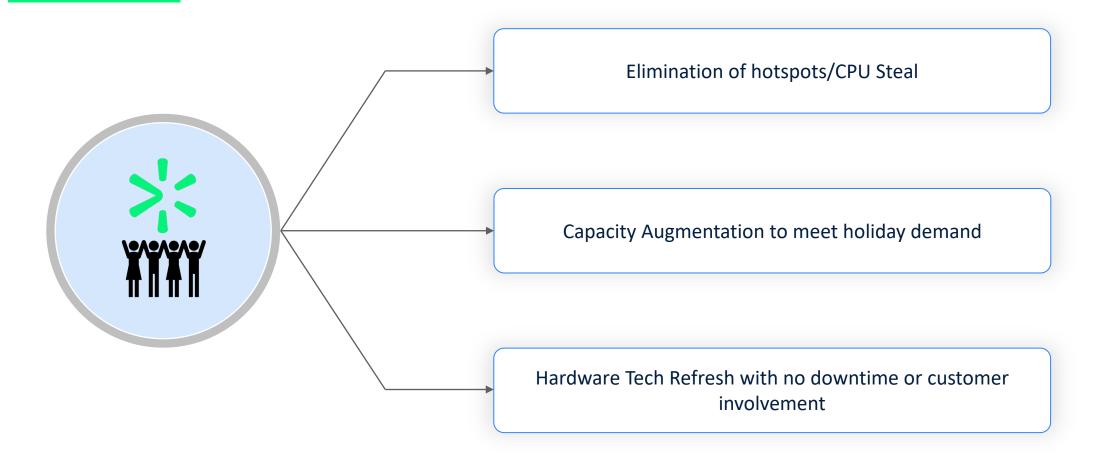
Minimize same app VMs per host Pre-calculate thresholds Minimize migration requests

Lock host to avoid conflicts

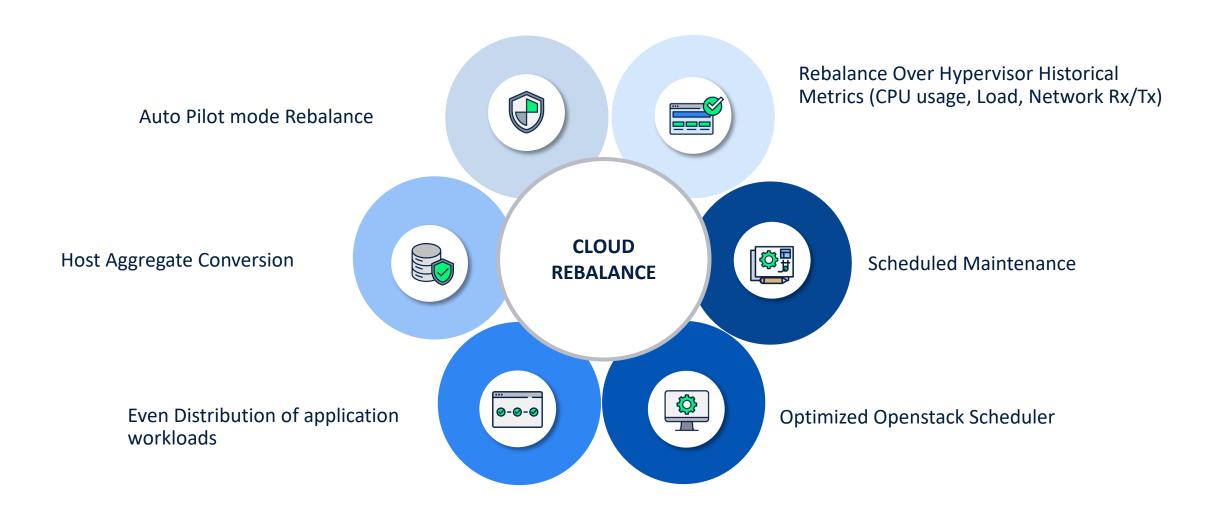
# Rebalance Architecture/Flow Continued



#### **Recent Successes**



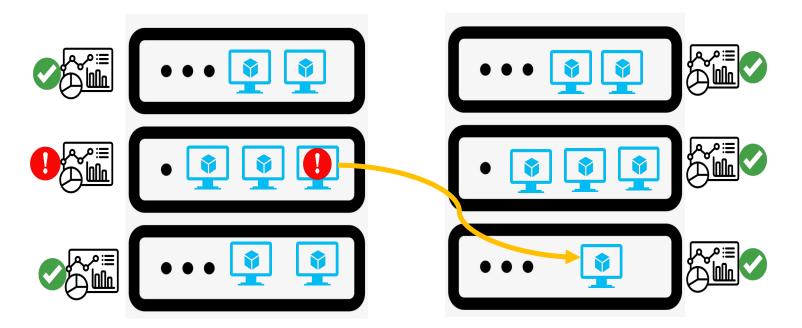
#### **Additional Use Cases**



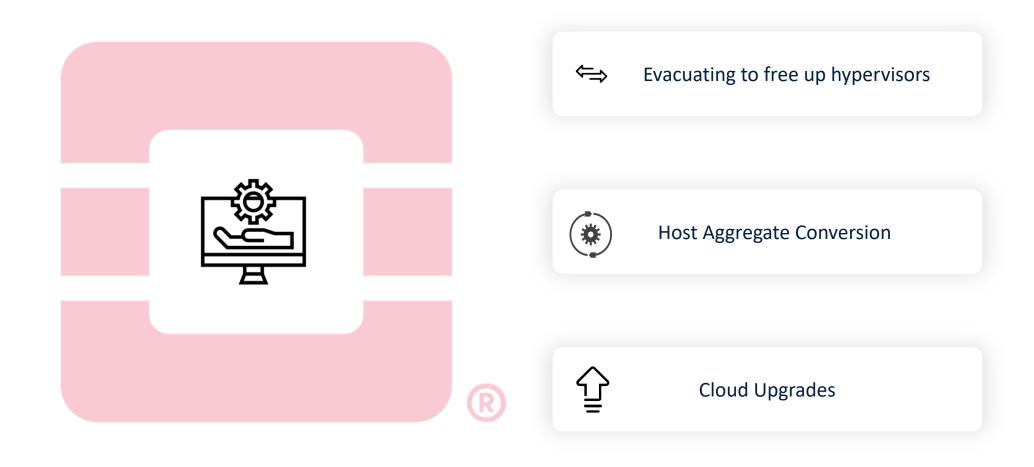
## Expand Use Case: Auto Pilot Mode Rebalance

#### Fully Automated Migration based on Metrics Trend

- CPU steal
- Resource constraints
  - CPU
  - Memory
  - Disk
  - Network



# **Expand Use Case: Scheduled Maintenances**



# Q & A













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