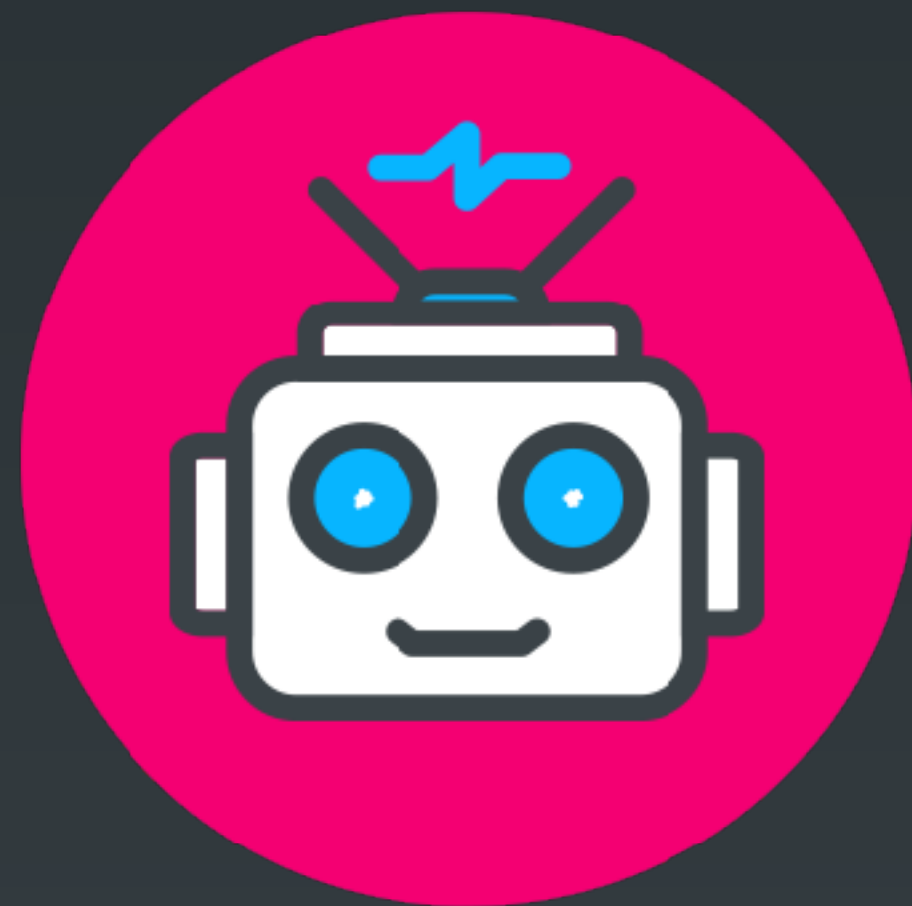




CLOUDCOVER



*EXTREME  
AUTOMATION*



*LIGHTSPEED  
DELIVERY*



*KING KONG  
SCALABILITY*



*AGILE  
AS F* 

***WE***  ***REDIS***



***REDIS @ KING-KONG SCALE***





*REDIS NEEDS LOTS OF*

**RAM**





***REDIS IS SINGLE-THREADED***

***SPLIT MASTERS***





***CLUSTER MODE TO THE RESCUE***



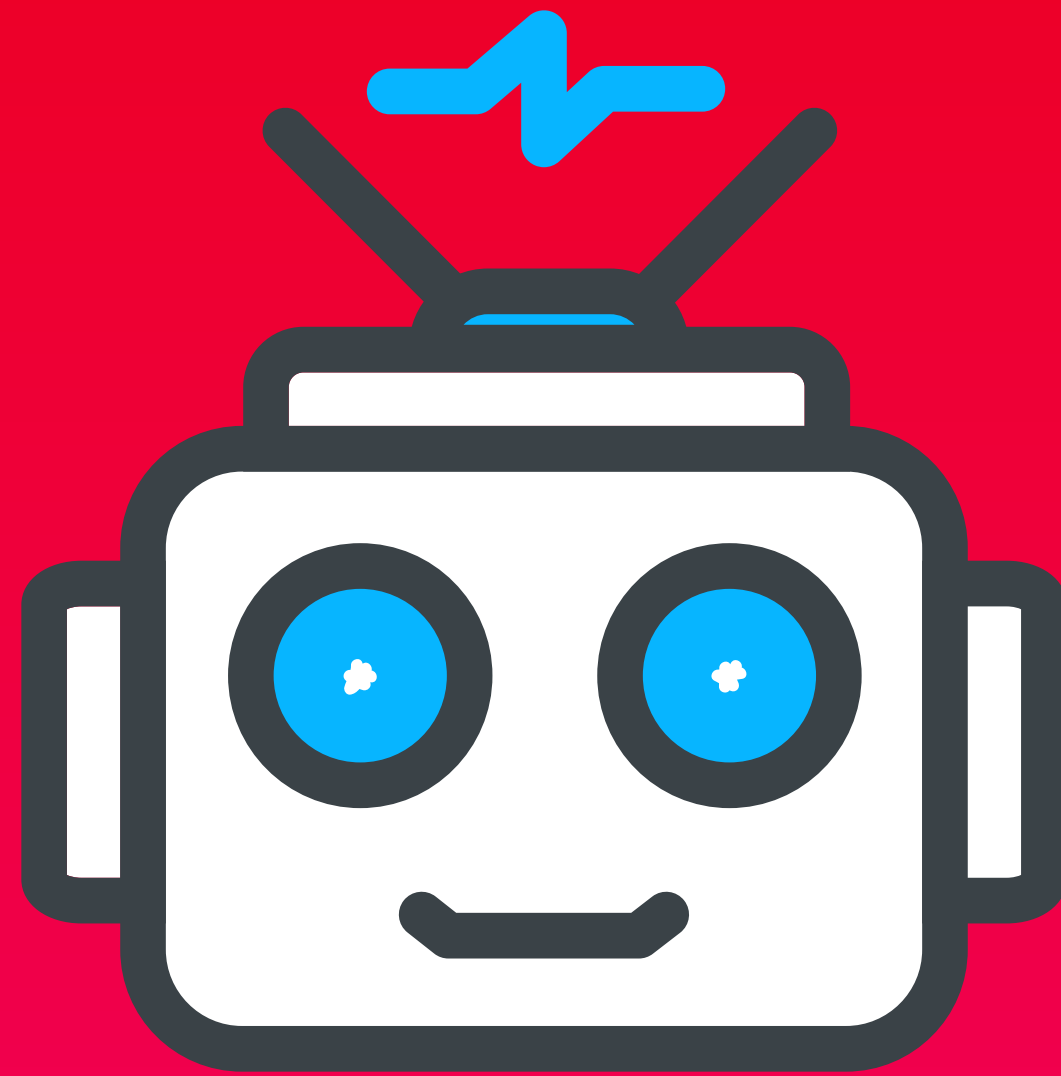
# REDIS IN CLUSTER MODE

- ★ Clustering is easy
- ★ Automatic Sharding
- ★ Rebalancing/resharding is easy
- ★ Redirected on write or read
- ★ Up to 1000 nodes (!)

# THE FINE PRINT

- ☁ Clustering is hard
- ☁ Needs the right driver
- ☁ Set related operations need a hashtag
  - Hashtags are a mechanism that allows “tagging” keys so they’re all on the same shard
- ☁ You probably need to modify your application to make clustering work
- ☁ You probably want the latest version of Redis to use clustering
- ☁ Redis Pub/Sub is **NOT** recommended in a cluster
- ☁ Redis cluster does not guarantee strong consistency
- ☁ RTFM: <https://redis.io/topics/cluster-spec>





***KUBERNETES & REDIS***

# KUBERNETES IS CONTAINERS ON CRACK

- ★ StatefulSets
- ★ Persistent Volumes
- ★ Completely Config File Driven (YAML)
- ★ <https://helm.sh> helps manage variables and compile templates/configs



***DEMO***

WE'RE HIRING SOLUTIONS ARCHITECTS IN SINGAPORE!  
LET'S TALK ;)



@viz



[viz@cldcvr.com](mailto:viz@cldcvr.com)

—

VISHAL PARPIA