

# 青云的设计理念以及架构实践

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# WHY DO WE BUILD QINGCLOUD?

- QINGCLOUD History
- We don't invent anything new, just create a new IT resource delivering channel

# WHY DO WE BUILD QINGCLOUD?

- What user really want?
  - VPS or Cloud Computing?
  - IT infrastructure migration
  - Why cloud then?

# WHY DO WE BUILD QINGCLOUD?

- QINGCLOUD is NOT OPENSTACK
  - Why not use openstack?
  - Is there compatibility problem?

# WHY DO WE BUILD QINGCLOUD?

- DESIGN GOAL
  - We must control our own fate
  - IT infrastructure equivalent
  - Performance equivalent
  - Super elastic and fast
  - Fully scale out
  - Modular design
  - Low touch

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# HOW TO BUILD QINGCLOUD?

- General Questions:
  - Why charge by seconds?
  - Which OS to use?
  - Open source?
  - The abilities for building IAAS?

# HOW TO BUILD QINGCLOUD?

- NETWORK IS A MUST
  - Layer 2 isolation
  - Topology
  - Virtual switch, virtual router, virtual gateway
  - Hybrid cloud



# HOW TO BUILD QINGCLOUD?

- STORAGE IS KEY
  - Stability
  - Performance
  - Capacity
  - Distributed block system
  - Massive storage system
  - Replicas and backup

# HOW TO BUILD QINGCLOUD?

- LOW-TOUCH IS SAVING LIVES
  - Bot p2p community
  - Auto scale and auto throttle control
  - Tickets, no IM
  - Continuous integration and delivery

# HOW TO BUILD QINGCLOUD?

- API IS THE SECRET
  - Separate user interface, minimized core system
  - Enterprise users like API
  - Virtual operators

# HOW TO BUILD QINGCLOUD?

- SECURITY IS IMPORTANT
  - Firewall on shared network
  - SSH key pair, force user to set password

# HOW TO BUILD QINGCLOUD?

- WHAT' S NEXT:
  - Technical PAAS
  - Next generation SDN
  - No virtual machine

# HOW TO BUILD QINGCLOUD?

- ENGINEER IS KING:
  - Technology can speak
  - Who really has the power to change the world?

Thank You