

# Rackspace Roadmap Themes

Evolving cloud technologies for the next generation

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# 3 year roadmap? In the Cloud industry?

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How to build a roadmap? Start with the customer...

# GOAL: Greater Insight (for the same or less \$/£/CHF/...)



MORE

with

SAME or LESS

more insight

...

same infrastructure

more insight

...

same people

faster insight

...

same budget

more infrastructure

...

same people

more data

...

same time

# CHALLENGES



*to help solve:*

federation  
automation



Better infrastructure (OCP)  
new analytics tools  
new virtualization techniques  
automation



automation  
federation  
orchestration  
people training

# THEMES

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## INFRASTRUCTURE

opencompute

bare metal provisioning

tiered storage (archiving)

# THEMES

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## FEDERATION

openstack: identity, service catalog, image mobility, ...

network virtualization (SDN over WAN)

WAN services: QoS, optimization, bandwidth on demand

## AUTOMATION

devops

bare metal provisioning (ironic)

monitoring services: aggregation, correlation

logging services

configuration management → PaaS 2.0

# THEMES

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## VIRTUALIZATION

containers

ZeroVM

bare metal (no VM)

## DATA and ANALYTICS

ingest (streaming, filtering)

data warehousing

realtime analytics (predictive, etc)

nosql

distributed analytics



# THANK YOU



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# Topic Brainstorm

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## Open Compute

- Scaling architecture
- How a ref model is developed/defined

## Federation

- Moving data around
- Orchestration of pools of infrastructure
- OpenStack Federation
  - More than one cloud
  - ID
  - Workflow orchestration

## Ironic



# Topic Brainstorm

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## Storage

- ZeroVM to do analysis near data
- Price
- Archiving
  - Extension of swift
  - Tiering (SSD, Disk, Tape,)
- Storage at scale

## Analytics

- Analytics-aaS
- DW-aaS

# Topic Brainstorm

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## Logging-aaS (Meniscus)

- DR
- Quicker dev cycles
- Scale

## Monitoring

- Distributed infrastructure monitoring
- Derive insights
- Relation of infrastructure and data (cern where experimental data validity depend on system availability)

# Topic Brainstorm

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## Data

- Acquisition
- Filtering (streaming/realtime processing)
- Correlation
- Ingest
- Analysis
  - Linking of infrastructure and app data

## Virtualization

- ZeroVM
- containers