Efficient Monitoring of Cloud Infrastructure

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Infrastructure Monitoring

• Why is it important?
  – uninterrupted services

• What can we monitor?
  – low level: infrastructure
  – high level: services

• Who is it for?
  – enterprise, small business, home
Cloud

• Is monitoring any different?

• Challenges:
  – large number of devices
  – geographically distributed
  – higher expectations of availability

• Higher level of automation is necessary
SLA (Service Level Agreement)

- SLA compliance monitoring
- user expectations can be (much) higher
- how:
  - alarms
  - reports
  - trends prediction
Security

• Network devices' configuration backups
  – TFTP, SSH, telnet

• Periodic security tests

• Monitoring system becomes a potential target
  – standard security measures
  – audit logs (crucial if monitoring system allows infrastructure modifications)
Notification Delivery Goes Mobile

• traditional: e-mail, SMS
  – content == series of messages

• emerging: mobile apps
  – delivery through push notifications
  – content is presented through app

• main advantage
  – less noise == less chance of overlooking important information
Questions?