# RSACONFERENCE
# CHINA 2012

RSA信息安全大会2012

## THE GREAT CIPHER
### MIGHTIER THAN THE SWORD
伟大的密码胜于利剑

# The 7 Deadly Sins:
# 7 Security Mistakes Enterprises Make When They Move to the Cloud
# - *and How to Avoid Them!*

**Dave Elliott**

**Global Cloud Marketing**

**Symantec**

CS-1003

Cloud Security

# The promise of cloud is great,

**Agility**   **Costs**

**Enabled by
Virtualization**

| | Traditional IT | Cloud Leaders |
|---|---|---|
| Servers per Admin | **50** | **5,000** |
| Time to Provision Server | **5 days** | **15 minutes** |
| Server Utilization | **20%** | **75%** |

# however success is not obvious.
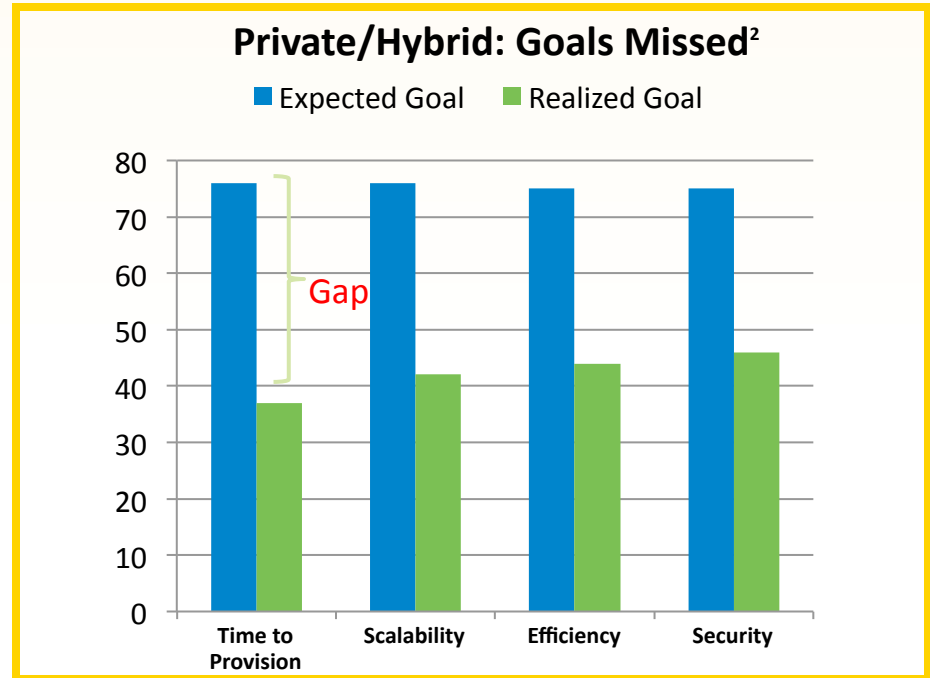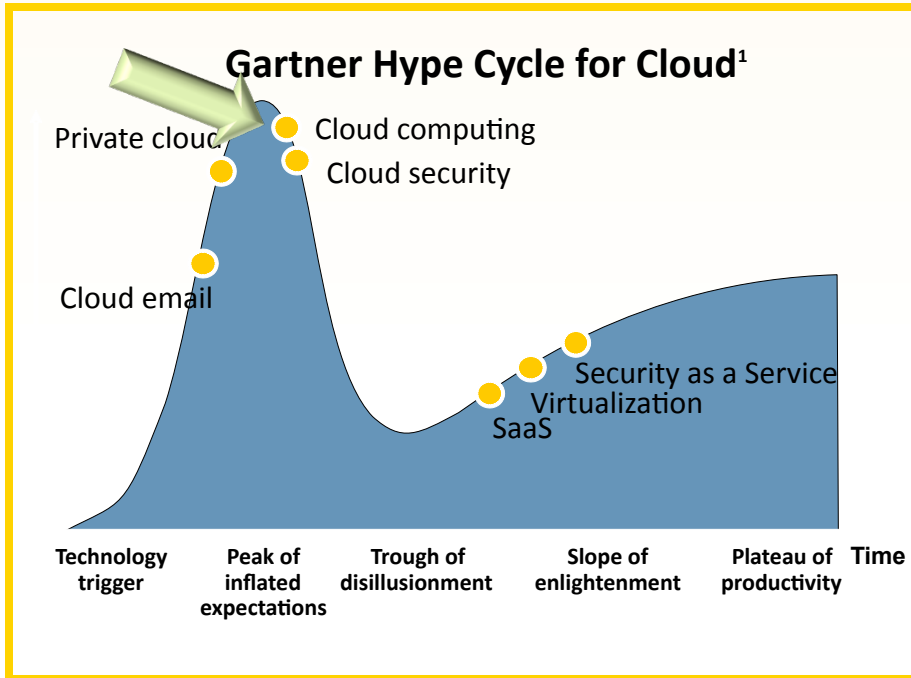
## Gartner Hype Cycle for Cloud[1]

Private cloud

Cloud computing

Cloud security

Cloud email

Security as a Service

Virtualization

SaaS

| Technology trigger | Peak of inflated expectations | Trough of disillusionment | Slope of enlightenment | Plateau of productivity | Time |

## Private/Hybrid: Goals Missed[2]

■ Expected Goal  ■ Realized Goal

Gap

80
70
60
50
40
30
20
10
0

Time to Provision    Scalability    Efficiency    Security

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# Cloud security concerns

| Concern | Percentage |
|---|---|
| Managing Access to Data | 56% |
| Data Leak Prevention | 48% |
| Intrusion Detection/Prevention | 45% |
| Backup and Recovery | 45% |
| Data Encryption | 44% |
| Ensuring Regulatory Compliance | 44% |
| Lack of Transparency | 42% |
| Keeping Compliant | 42% |
| Setting & Maintaining Security Policies | 42% |
| Patch & Vulnerablity Mgmt | 29% |
| Ensuring Technology Compliance | 28% |
| Inability to Build Proper Controls | 27% |
| Virus & Spam Detection/Prevention | 26% |
| Other | 2% |
| None of the Above | 1% |
| Not Sure | 4% |

Source: 2011 CSO Cloud Survey

# New challenges of cloud

**Misaligned Expectations**

**Unprepared IT Organizations**

**Data Access Control**

**Compliance**

**Shadow IT**

# Cloud Mistakes

# #1 Ignorance

### What It Is
Not knowing the value of information

### Why it Matters
- Information is your most important asset
- Cloud frees information to flow to the most efficient resource
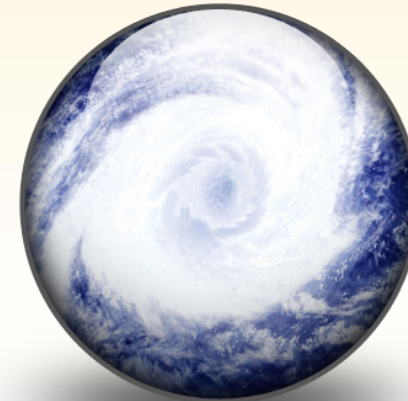- Cloud security starts with and must match information importance

### How to Overcome

1. **Get Educated – Leverage the CSA**
2. **Identify Information**
3. **Identify Risks**
4. **Don't Believe Vendors**
5. **Check References & Enforce**

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# #2 Resistance

## What It Is
Thinking of the cloud as competition.
Fighting instead of embracing the cloud.

## Why it Matters
- Cloud can be a game changer for your business
- Your competition, customers, and partners are going to the cloud
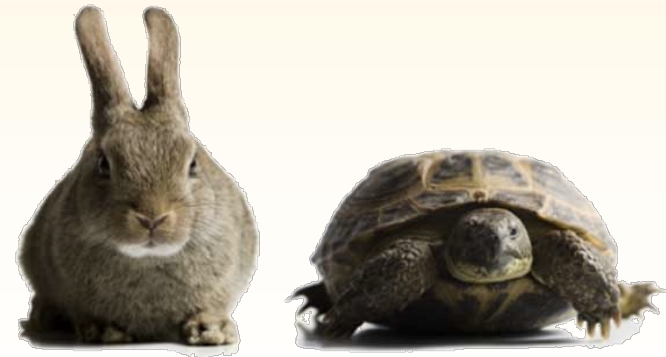- Security must evolve from the "say no" organization to business enablers

## How to Overcome

1. **Accept and Embrace Cloud**
2. **Start with Clear Objectives and Definition of Cloud**
3. **Establish a Charter and Appoint a Cloud Leader**
4. **Start Small – But Start Now**

# #3 Pride

## What It Is
Thinking the cloud will be easy.
Not instrumenting for the cloud.

## Why it Matters
- Cloud can be a game changer for your business
- Your competition, customers, and partners are going to the cloud
- Security must evolve from the "say no" organization to business enablers

## How to Overcome

1. **Leverage Key Partners**
2. **Get Educated**
3. **Identify Existing Solutions – Don't Reinvent the Wheel**
4. **Execute Aggressive Planning & Budgeting**

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# #4 Isolation

## What It Is
Thinking of the cloud as a separate island of IT

## Why it Matters
- Cloud represents an evolution in IT delivery, not something completely different
- Multiple policies and teams create confusion, duplication of effort and unnecessary risk

## How to Overcome
1. Demand Clarity of Security Ownership
2. Leverage Existing GRC Policies
3. Clearly Identify Cloud Project Priorities as Part of Regular Planning
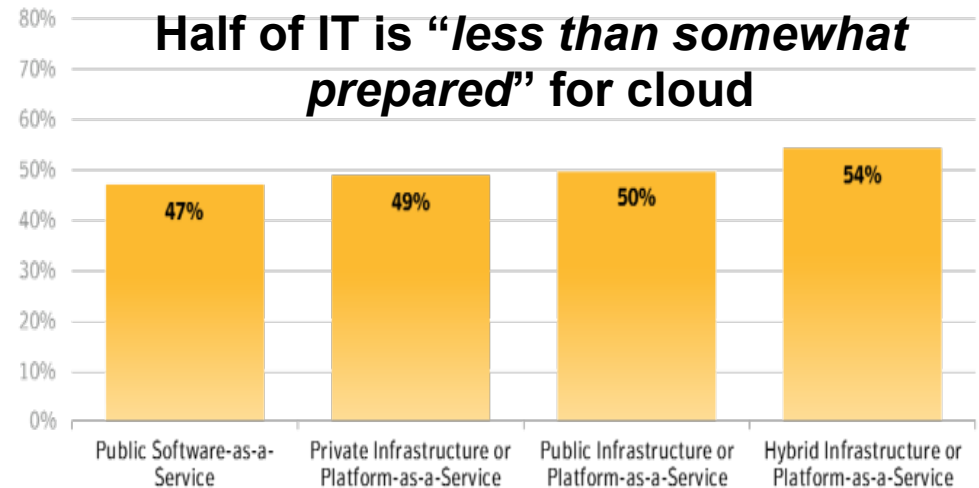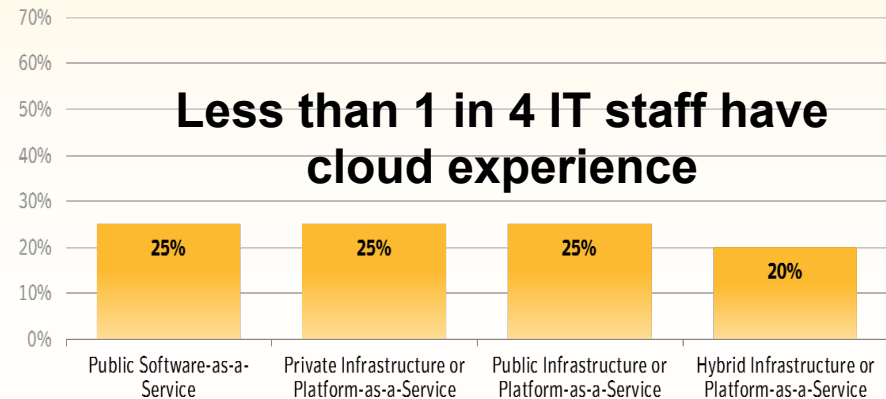4. Consider Cloud in the Context of Virtualization & Mobile

# #5 Preparation

## What It Is
Moving to the cloud without proper skills or planning

## Why it Matters
- Most cloud projects fail to meet expectations
- Typical IT organizations lack experience and skills to succeed in the cloud

**Less than 1 in 4 IT staff have cloud experience**



| | | | |
|---|---|---|---|
| 25% | 25% | 25% | 20% |
| Public Software-as-a-Service | Private Infrastructure or Platform-as-a-Service | Public Infrastructure or Platform-as-a-Service | Hybrid Infrastructure or Platform-as-a-Service |

**Half of IT is "*less than somewhat prepared*" for cloud**



| | | | |
|---|---|---|---|
| 47% | 49% | 50% | 54% |
| Public Software-as-a-Service | Private Infrastructure or Platform-as-a-Service | Public Infrastructure or Platform-as-a-Service | Hybrid Infrastructure or Platform-as-a-Service |

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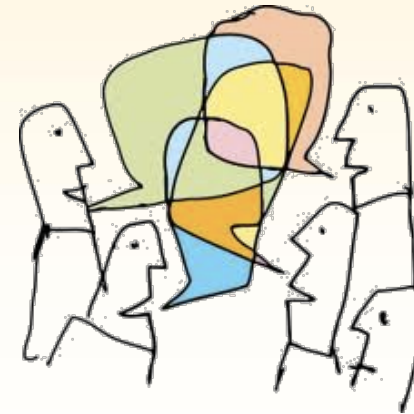- Typical IT organizations lack experience and skills to succeed in the cloud

## How to Overcome

1. **Make a Commitment to the Cloud**
2. **Enact Cloud Training for Yourself and Your Organization**
3. **Leverage Partners That Have Been Successful**

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# #6 Ambiguity

## What It Is
Uncertainty and a lack of clarity increases risk

## Why it Matters
- Legal cost of a data breach may be high
- Business costs of a cloud failure may be high

## How to Overcome

1. Establish Clarity on Ownership
2. Set Clear Definitions & Objectives
3. Identify Legal Issues
4. Establish & Enforce SLAs and Incident Response
5. Demand Robust Reporting
6. Make Cloud Part of Regular Planning

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# #7 Risks

## What It Is
Failing to establish policy, assess risk and compliance, across multiple clouds
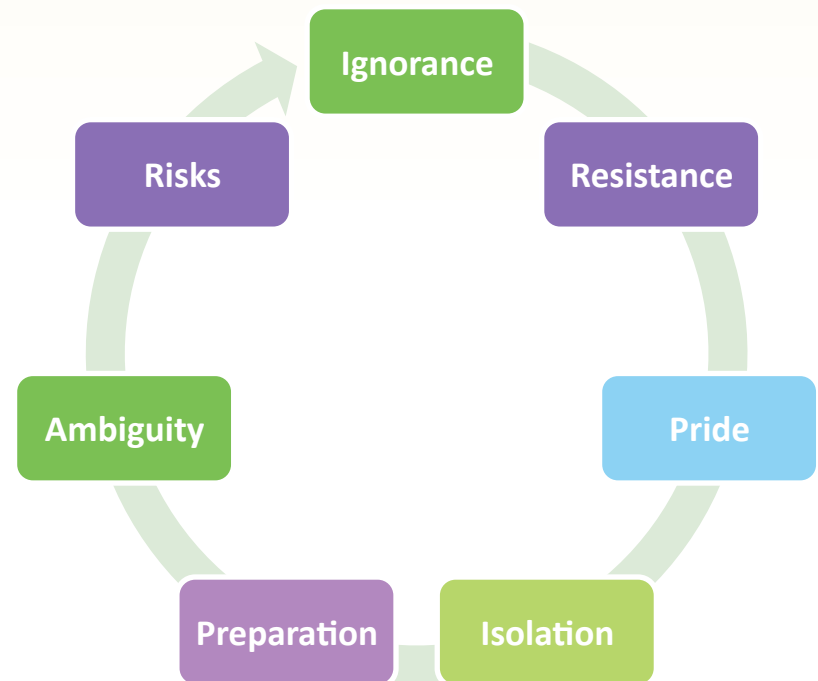


## Why it Matters
- Your organization will use many clouds – not just one
- Risks will change as your information is exposed to the cloud

## How to Overcome
1. Harmonize cloud policy and risk with existing GRC strategies
2. Leverage cloud vendor security features such as security groups and availability zones
3. Know your data and make smart decisions for your business

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# Summary

- Cloud can deliver game changing benefits
- Common security mistakes are avoidable
- Embrace the cloud and lead the change

Ignorance

Resistance

Risks

Pride

Ambiguity

Preparation

Isolation

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# Thank You

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