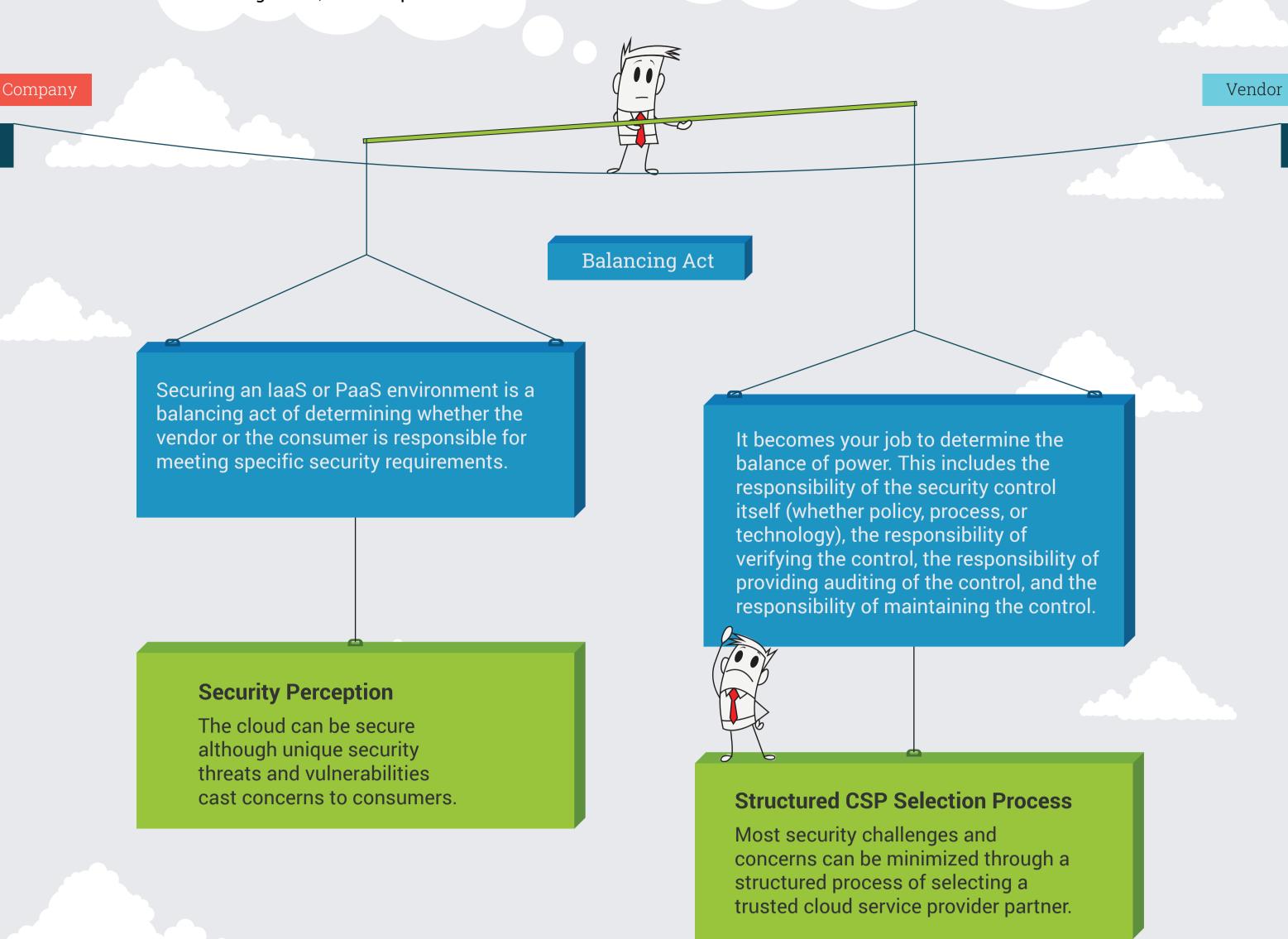


How to Secure Your IaaS and PaaS Environments

Keep your information security risks manageable when leveraging the benefits of cloud computing.

If you want to take advantage of any of the public laaS or PaaS benefits, you have to secure your new environment. To ensure data protection and secure operations from creation to decommission, you have to achieve control, visibility, data security, management, and compliance.

The ability to secure expanding operating environments, such as the cloud, is a core responsibility of security professionals. Organizations must be able to take advantage of the latest technological capabilities without putting their enterprise or information at unreasonable risk. The person in charge of security at the organization must ensure that IT can enable business objective realization in a secure and safe way.

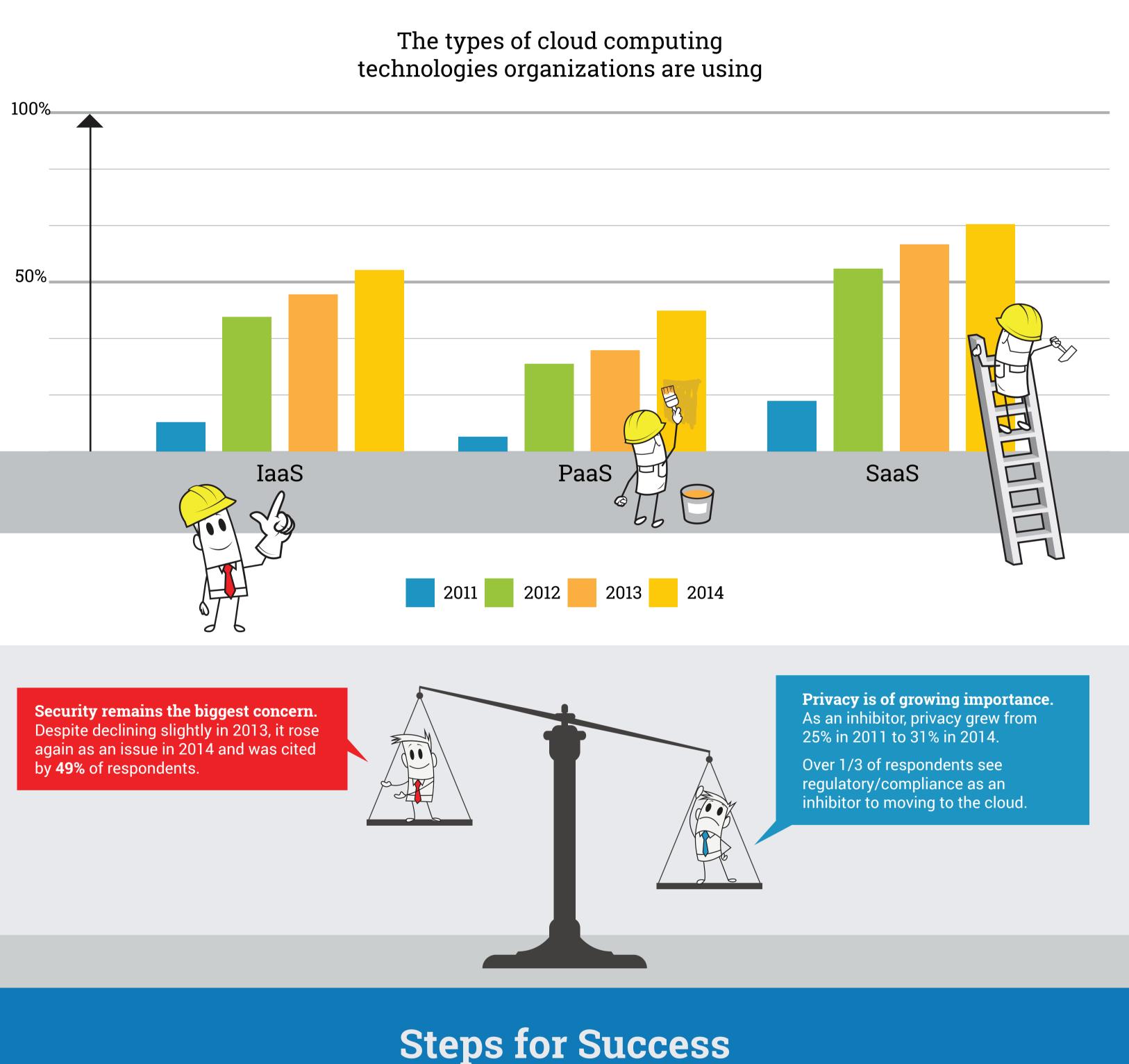


Cloud Security Alliances's "Nine Notorious Cloud Security Risks": 1. Data breach

- 2. Data loss 3. Account of service traffic hijacking
- 4. Insecure interfaces and APIs
- 5. Denial of service
- 6. Malicious insiders
- 7. Cloud abuse
- 8. Insufficient due diligence
- 9. Shared technology vulnerabilities
- Source: https://cloudsecurityalliance.org/research/top-threats/

Approximately 66% of data is in the cloud today, and

49% of companies are using cloud to fuel revenue generation or new product creation.



Step 2

laaS and PaaS present unique security risks and threats compared to traditional physical infrastructure. Determine your organization's overall laaS/PaaS risk profile.

Determine your hosted IaaS/PaaS specific risk profile

 Systems moving to the cloud Industry profile

Threats Organization type Current risk management Data

Your hosted cloud risk profile is based on:

- Compliance
- User community size

Step 1



your laaS/PaaS program needs, as well as whether your vendor or you will be responsible for their deployment.

Determine your cloud security control requirements

Various security controls must be accounted for within a cloud

environment. From your risk profile, determine what security controls

Info-Tech's custom cloud security framework is the CAGI model: Completeness of security controls Auditability of cloud environment Governability of cloud environment

Interoperability of cloud system



Vendor selection and relationship management is an extremely

Implement your hosted cloud security controls

Identify potential obstacles and stakeholders, develop your implementation roadmap, and create a communication plan to



Build an IaaS/PaaS security governance plan to manage your vendor to ensure a successful relationship and continued security, in addition to ensuring your internal controls are maintained and secured.

"The key challenges are process related, policy related, and culturally related. These are the most difficult to change."

- Steve Woodward, CEO, Cloud Perspectives



