


Hands-off security: protecting the information journey from mobile to cloud

Dr. Dimitrios Patsos
CTO, ADACOM S.A.



A photograph of a computer lab or office with several workstations. In the foreground, a black computer monitor sits on a desk, with a black keyboard and mouse in front of it. The background shows more desks and monitors, slightly out of focus. A white thought bubble with a black outline is positioned in the upper right area of the image.

Users gone
home

A photograph of a computer workstation in a server room. In the foreground, a black computer monitor sits on a desk, with a black keyboard and mouse in front of it. The background shows rows of similar workstations and server racks, slightly out of focus. A white thought bubble with a black outline is positioned in the upper right area of the image.

No remote
access

A photograph of a computer workstation in a dimly lit office. In the foreground, a black computer monitor sits on a desk, with a black keyboard and mouse in front of it. The background shows other desks and monitors, slightly out of focus. A bright light source, possibly a window, is visible in the distance, creating a soft glow. A white cloud-shaped speech bubble is overlaid on the right side of the image.

Sunshine
(No Clouds)

mobile users

BYOD

extranets

social

VPN

remote access

“always on”

executives

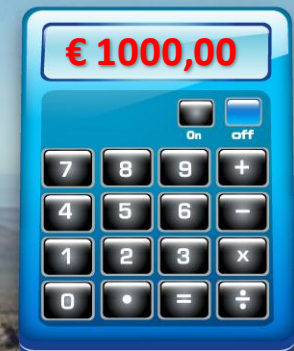
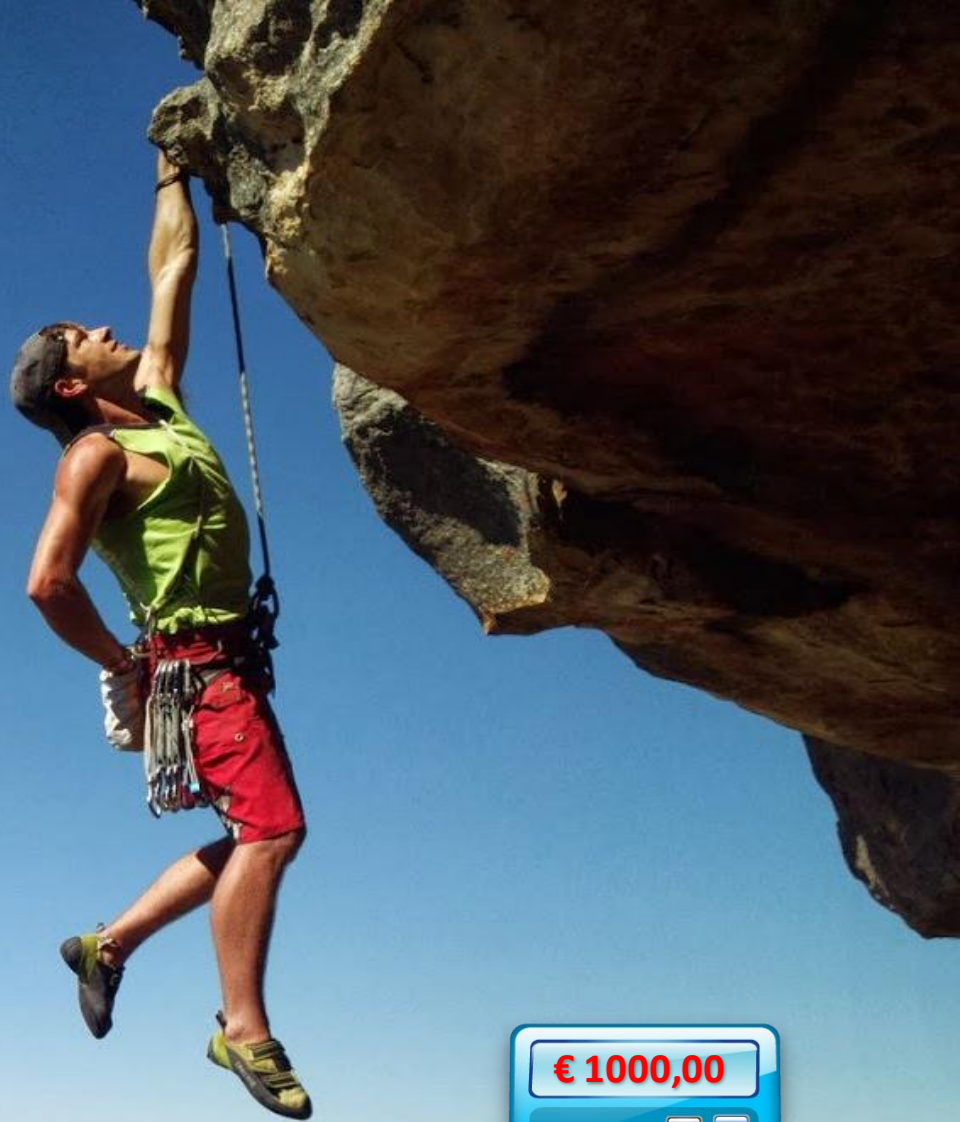
web apps

contractors



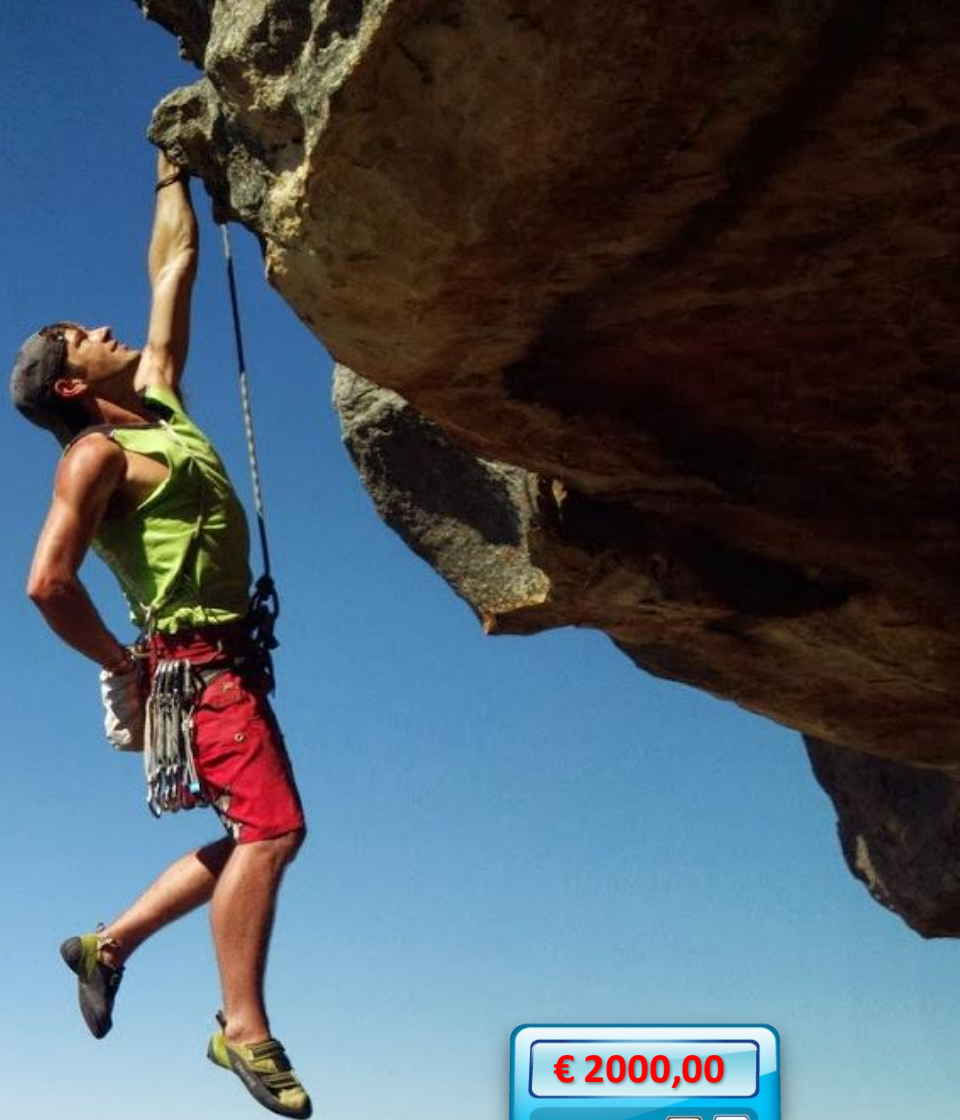
Building a Secure App

- Secure the OS



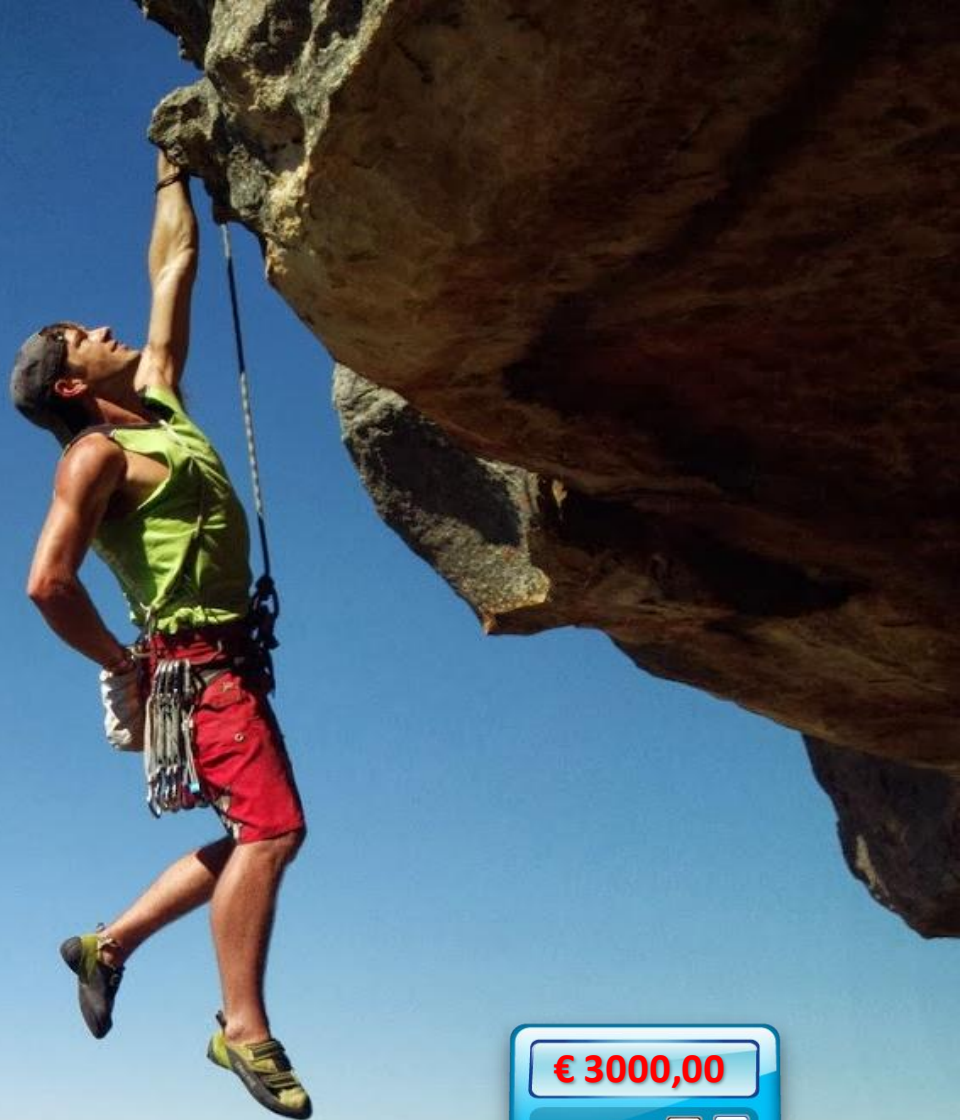
Building a Secure App

- Secure the OS
- Secure the Database



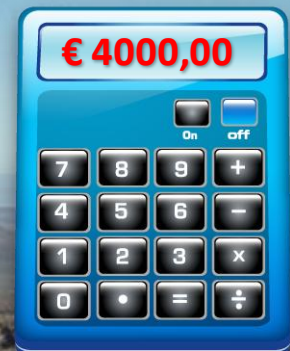
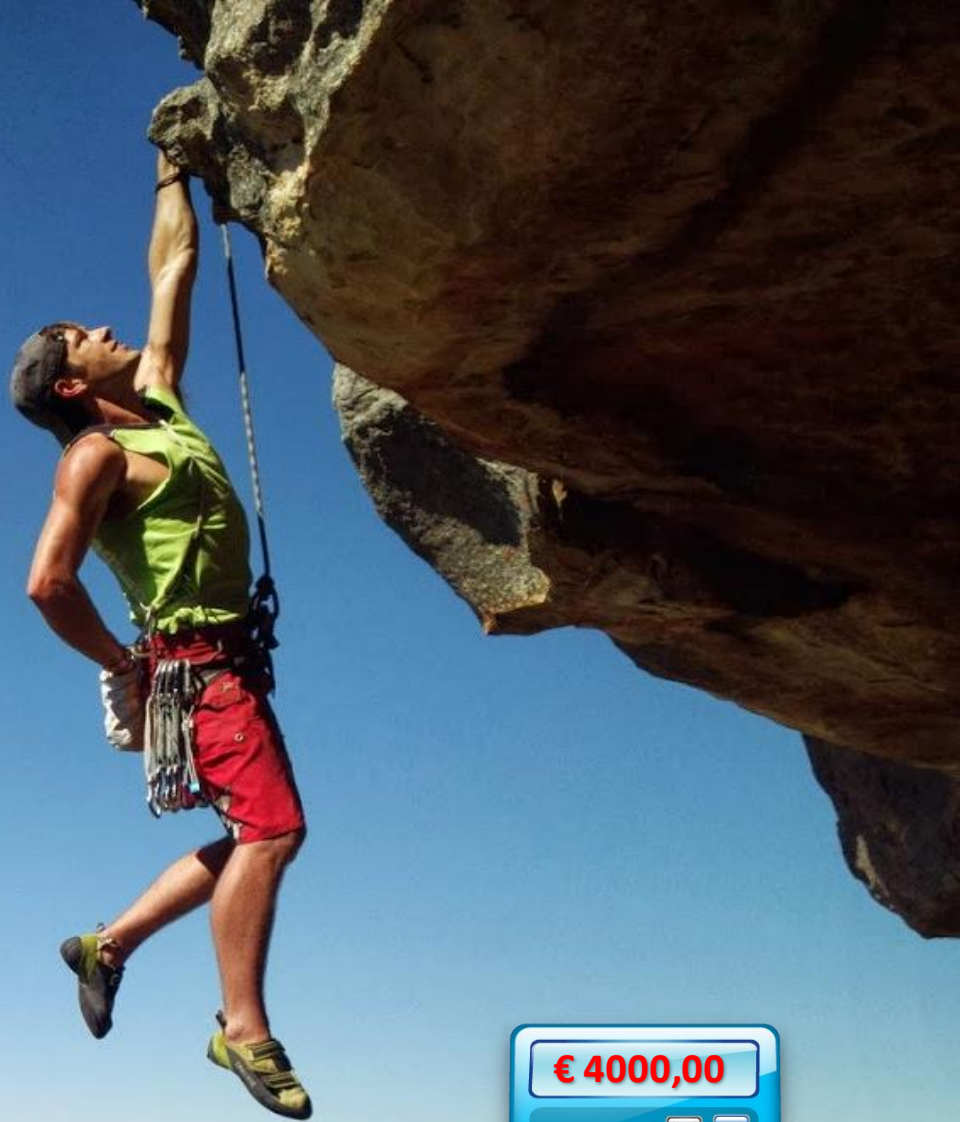
Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application



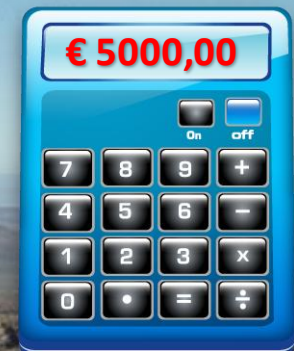
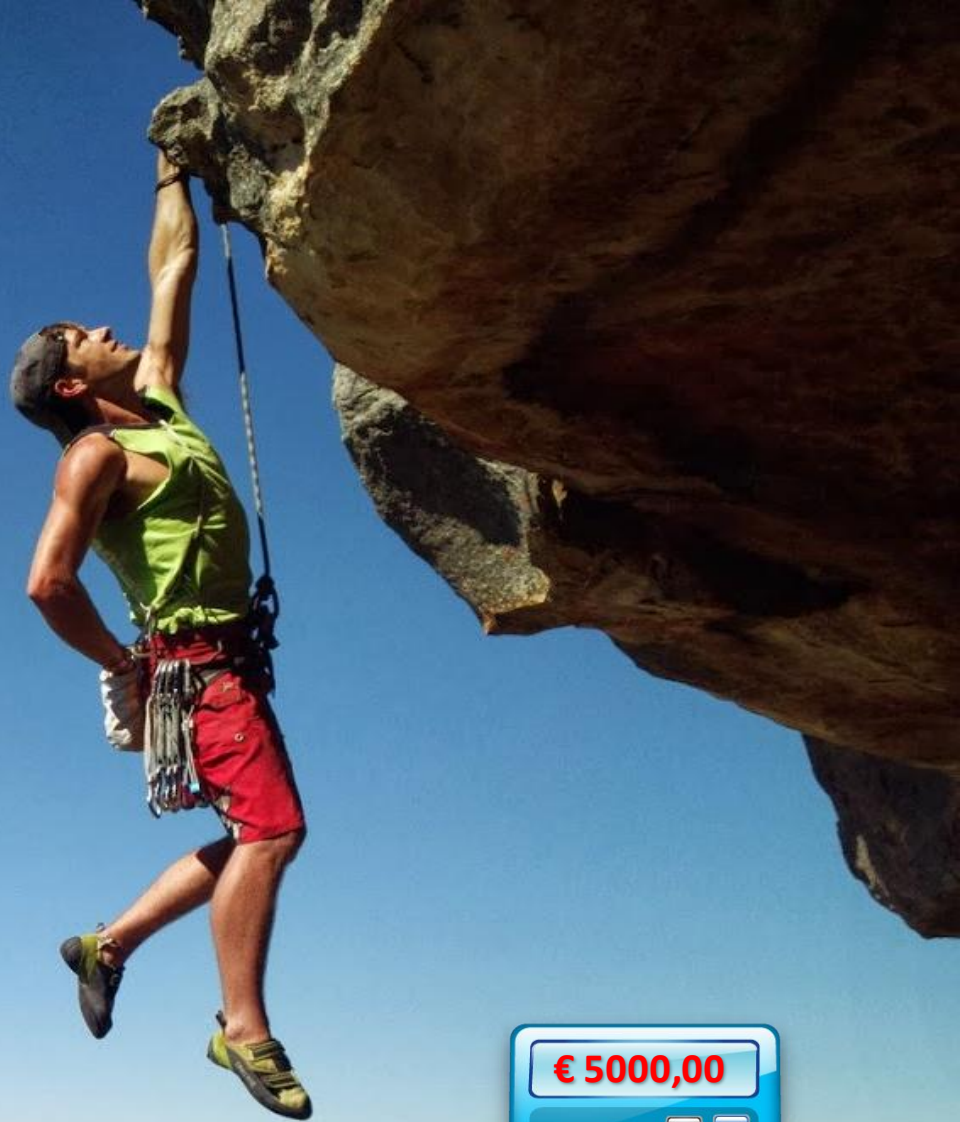
Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application
- Isolate the networks



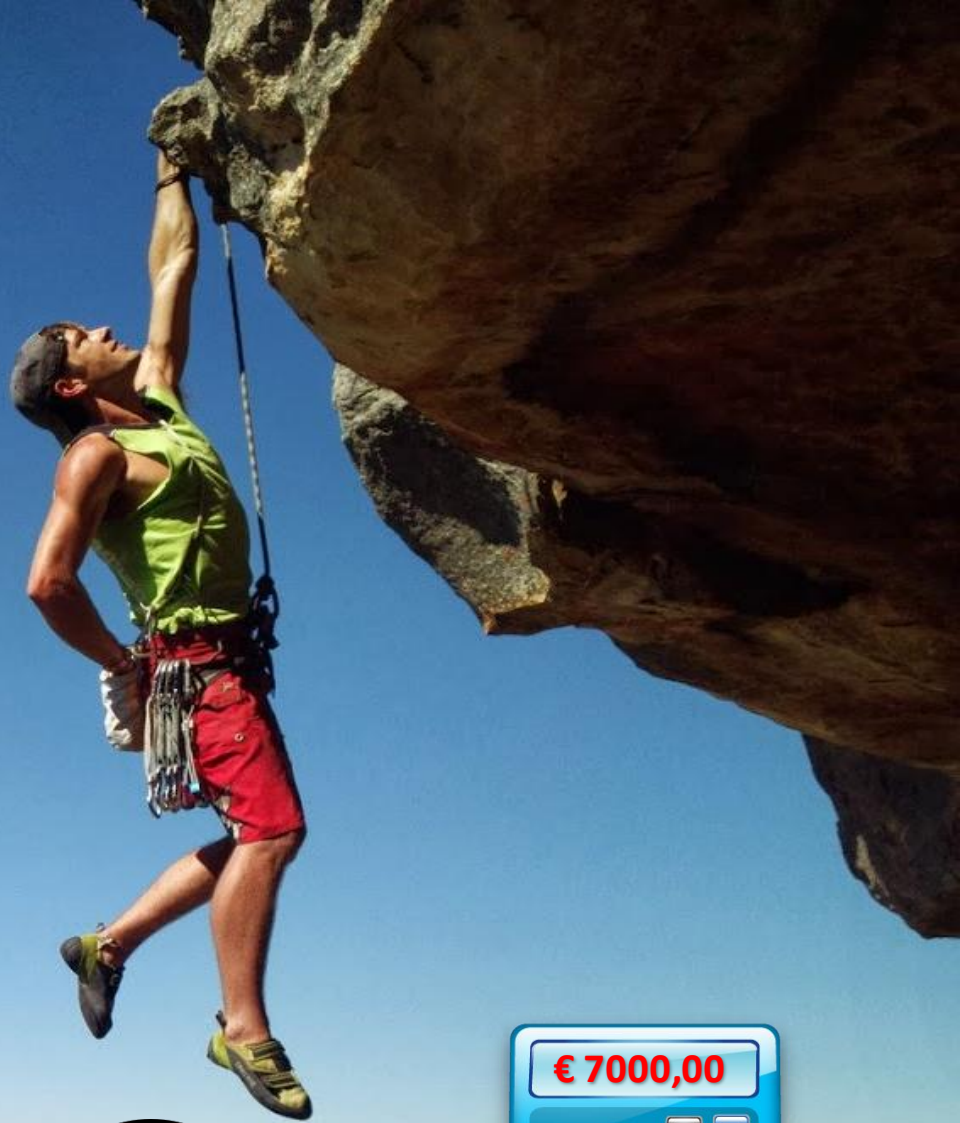
Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application
- Isolate the networks
- Development – Test



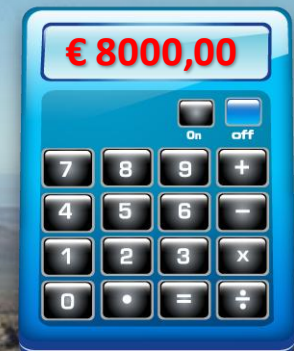
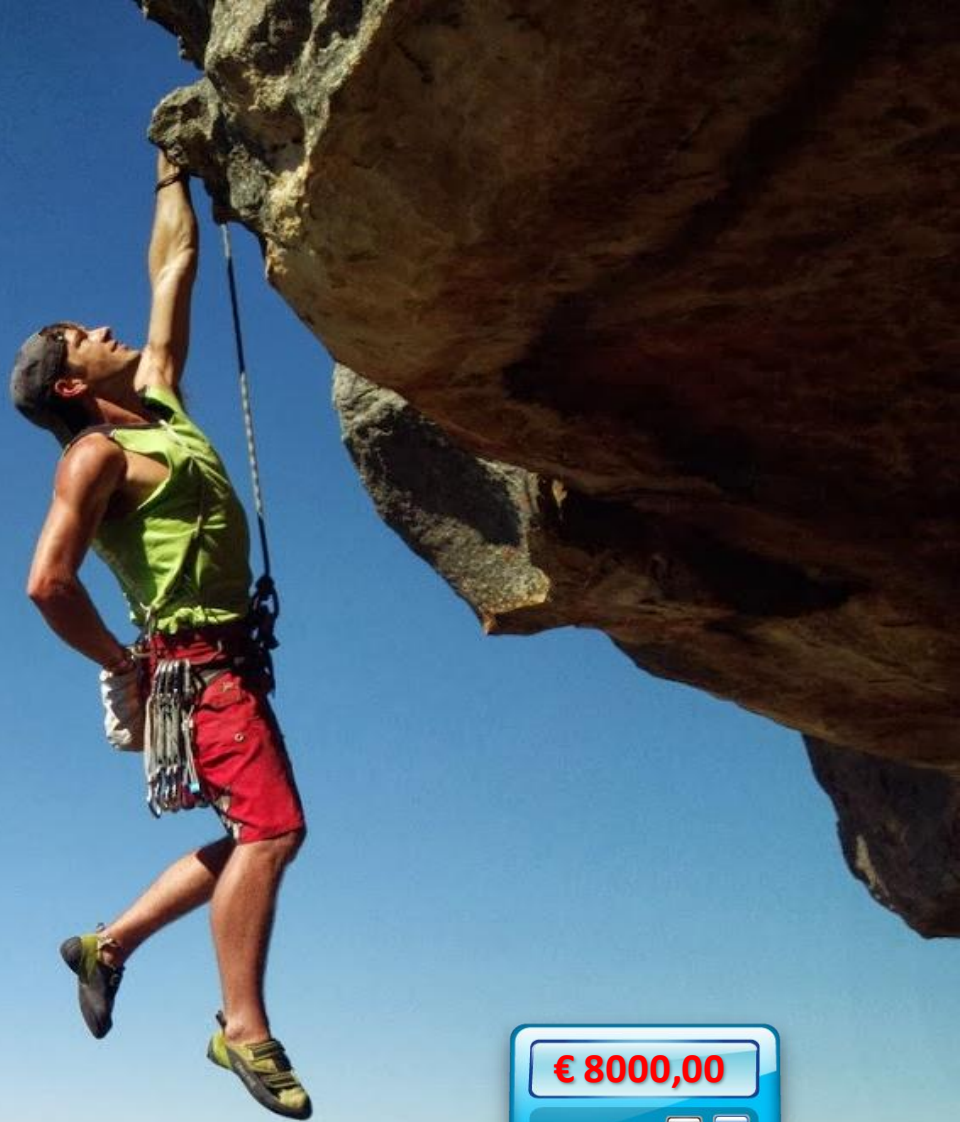
Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application
- Isolate the networks
- Development – Test
- Penetration Test



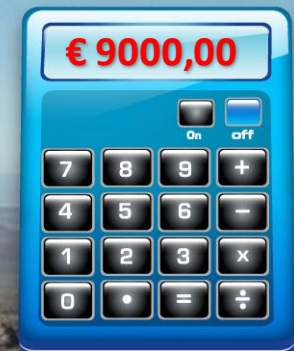
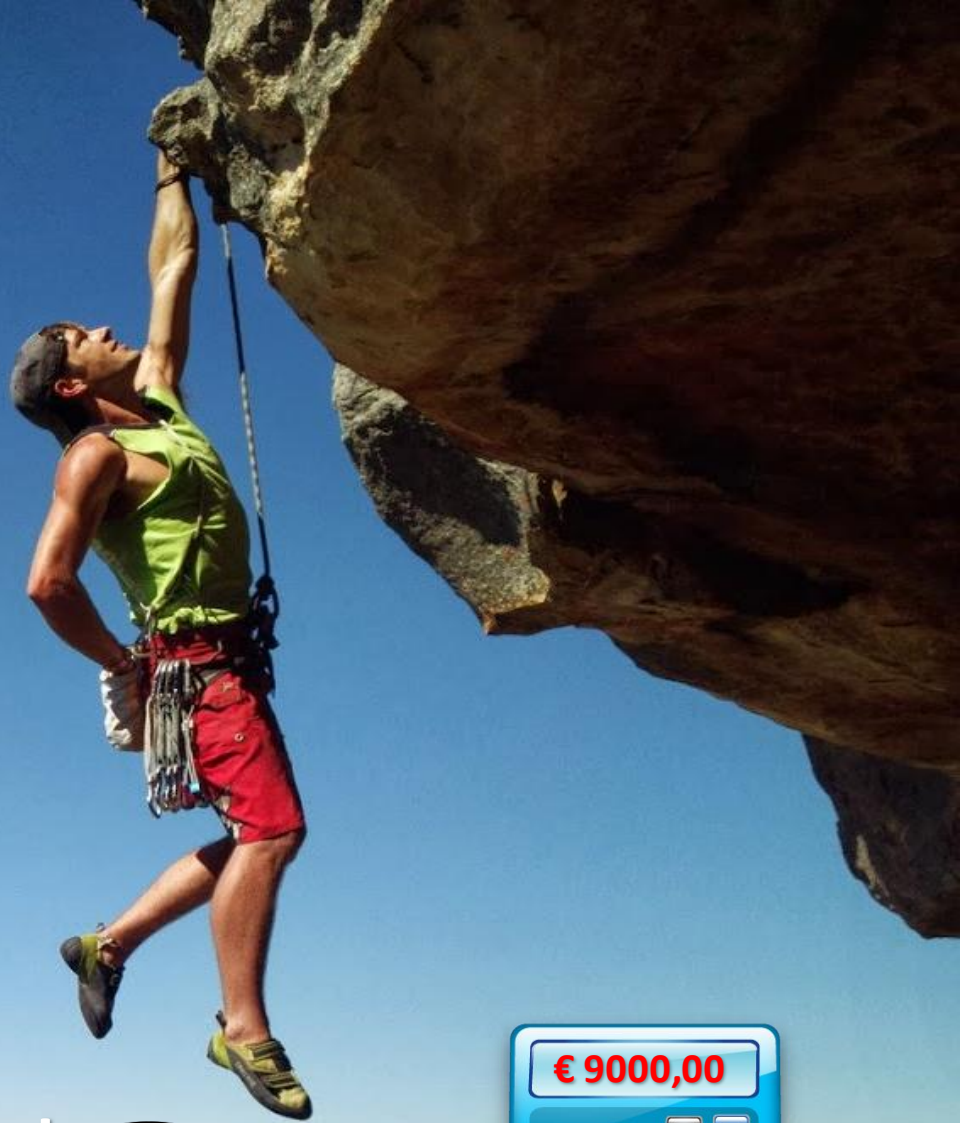
Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application
- Isolate the networks
- Development – Test
- Penetration Test
- Process Check



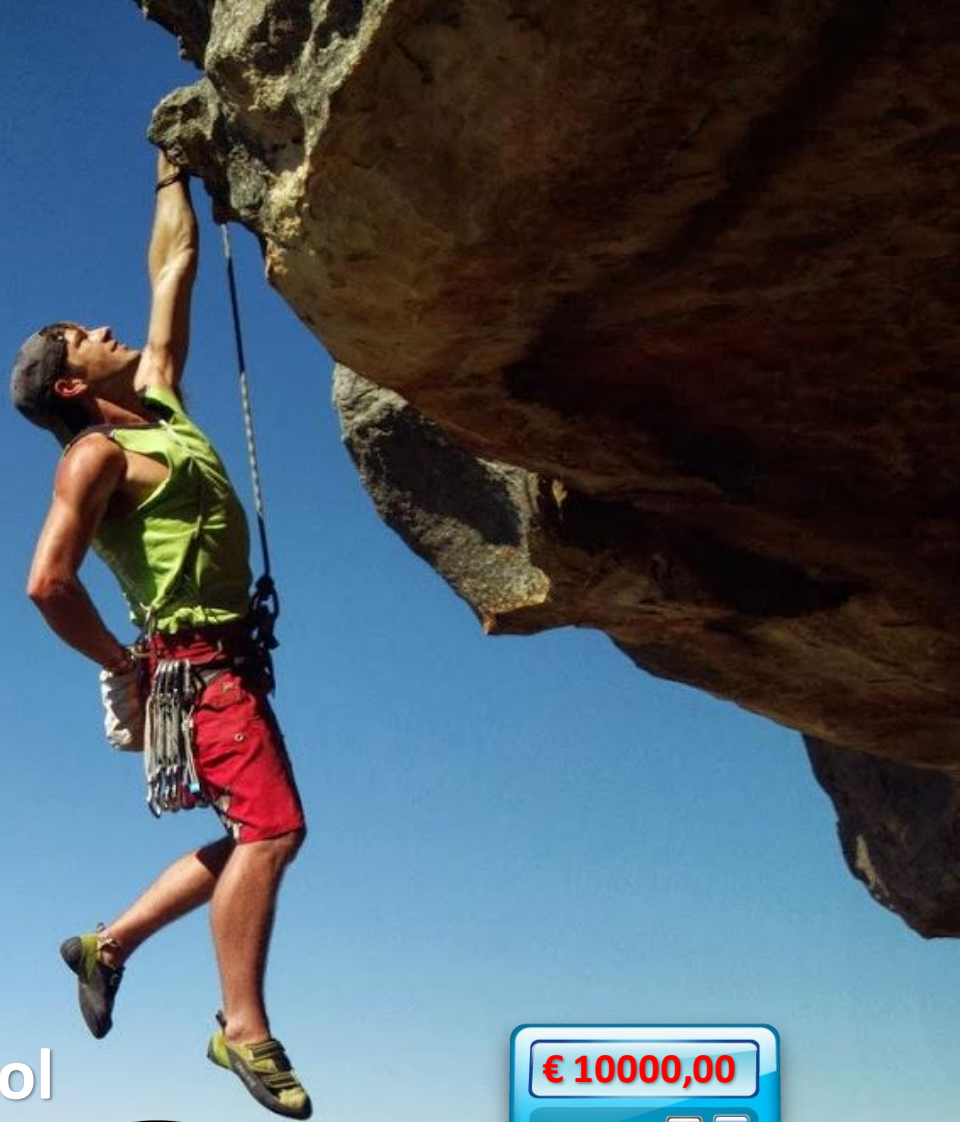
Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application
- Isolate the networks
- Development – Test
- Penetration Test
- Process Check
- Firewall and access control



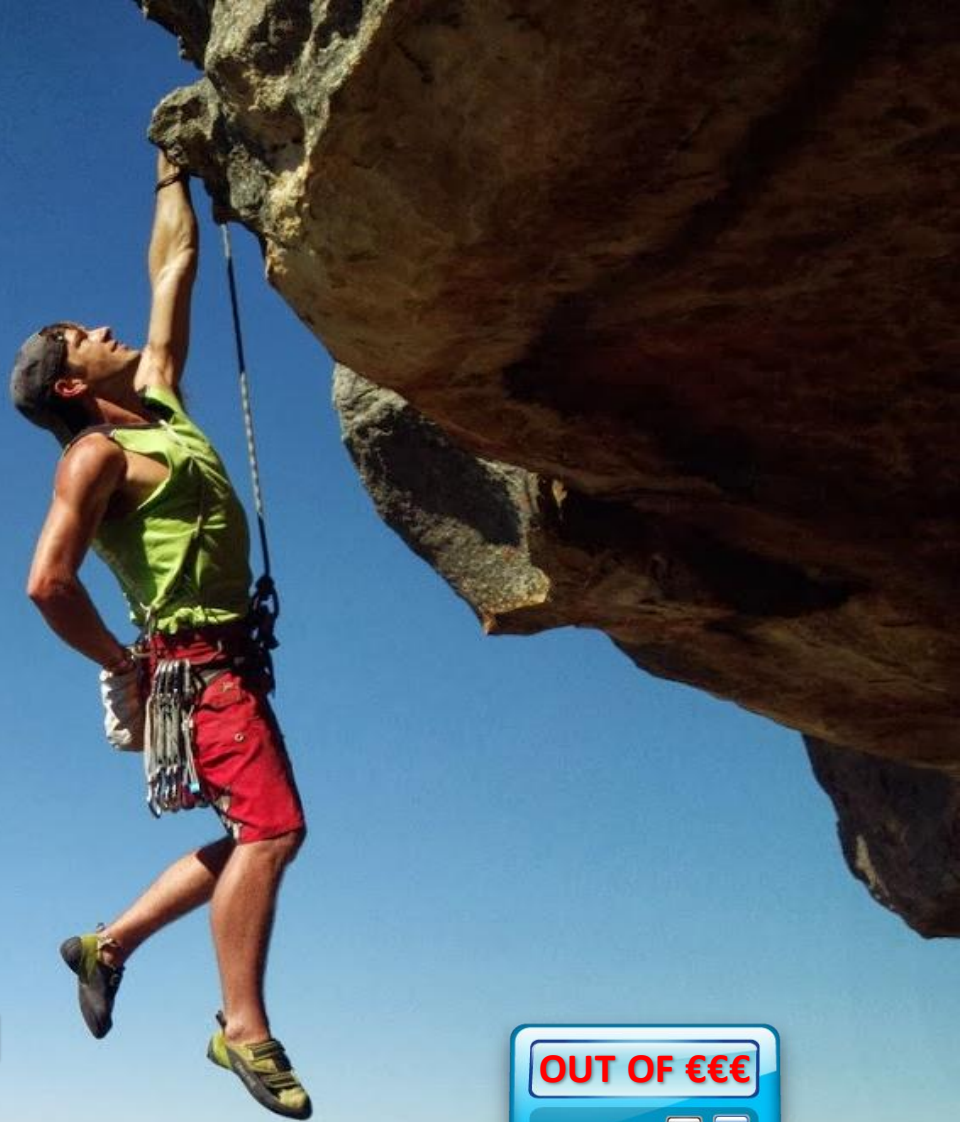
Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application
- Isolate the networks
- Development – Test
- Penetration Test
- Process Check
- Firewall and access control
- Compliance Check



Building a Secure App

- Secure the OS
- Secure the Database
- Secure the application
- Isolate the networks
- Development – Test
- Penetration Test
- Process Check
- Firewall and access control
- Compliance Check
- Production



Buying a Secure App - SaaS

Google Apps for Work

Contact us

Get started

Home Products ▾ Pricing Learn More ▾

Support Sign In

Google Apps

\$5

per user per month

or \$50 per user per year plus tax

Get started

Google Apps for Work includes:

- Business email addresses (name@yourcompany.com)
- Video and voice calls
- Integrated online calendars
- 30GB of online storage for file syncing and sharing
- Online text documents, spreadsheets and slides
- Easy to create project sites

Google Apps
with unlimited storage and Vault

\$10

per user per month

or \$120 per user per year plus tax

Get started

Everything in Google Apps for Work plus:

- Unlimited Storage (or 1TB per user if fewer than 5 users)
- Advanced admin controls for Drive
- Audit and reporting insights for Drive content and sharing
- Google Vault for eDiscovery covering emails, chats, docs and files

Buying a Secure App - IaaS

Amazon Web Services

PRODUCTS & SERVICES

Amazon WorkDocs

Product Details

Pricing

FAQs

RELATED LINKS

Documentation

Get Started for Free

Create Free Account

Pricing

With Amazon WorkDocs, there are no upfront fees or commitments. You pay only for active user accounts, and the storage you use. In most regions Amazon WorkDocs costs \$5 per user per month* and includes 200 GB of storage for each user. Amazon WorkDocs provides a 30-day free trial with 200 GB of storage per user for up to 50 users.

Amazon WorkSpaces users receive access to Amazon WorkDocs for no additional charge. This includes 50 GB of storage per WorkSpaces user. For a discounted rate of \$2 per WorkSpaces user per month**, this can be upgraded to 200 GB of storage.

You can set limits on the amount of storage your users can use. If you need more than 200 GB of storage for your users, additional storage will be charged at the rates shown below. As you store more data in Amazon WorkDocs, the cost per additional GB decreases.

*\$8 per user per month in the Asia Pacific (Sydney) region, \$7 per user per month in the Asia Pacific (Singapore) region

** \$3 per user per month in the Asia Pacific (Sydney) and Asia Pacific (Singapore) regions

Get Started with AWS for Free

Create a Free Account

Or Sign In to the Console

Receive twelve months of access to the [AWS Free Usage Tier](#) and enjoy AWS Basic Support features including, 24x7x365 customer service, support forums, and more.

Additional Storage over 200 GB per user

Price Tier	Cost per additional GB	Cost per additional GB
	US-East (Virginia), US-West (Oregon), EU (Ireland) and Asia Pacific (Singapore) region	Asia Pacific (Sydney)
First 1 TB / Month	\$ 0.0300	\$ 0.0330
Next 49 TB / Month	\$ 0.0295	\$ 0.0324
Next 450 TB / Month	\$ 0.0290	\$ 0.0319

CloudWalking

Public

Community

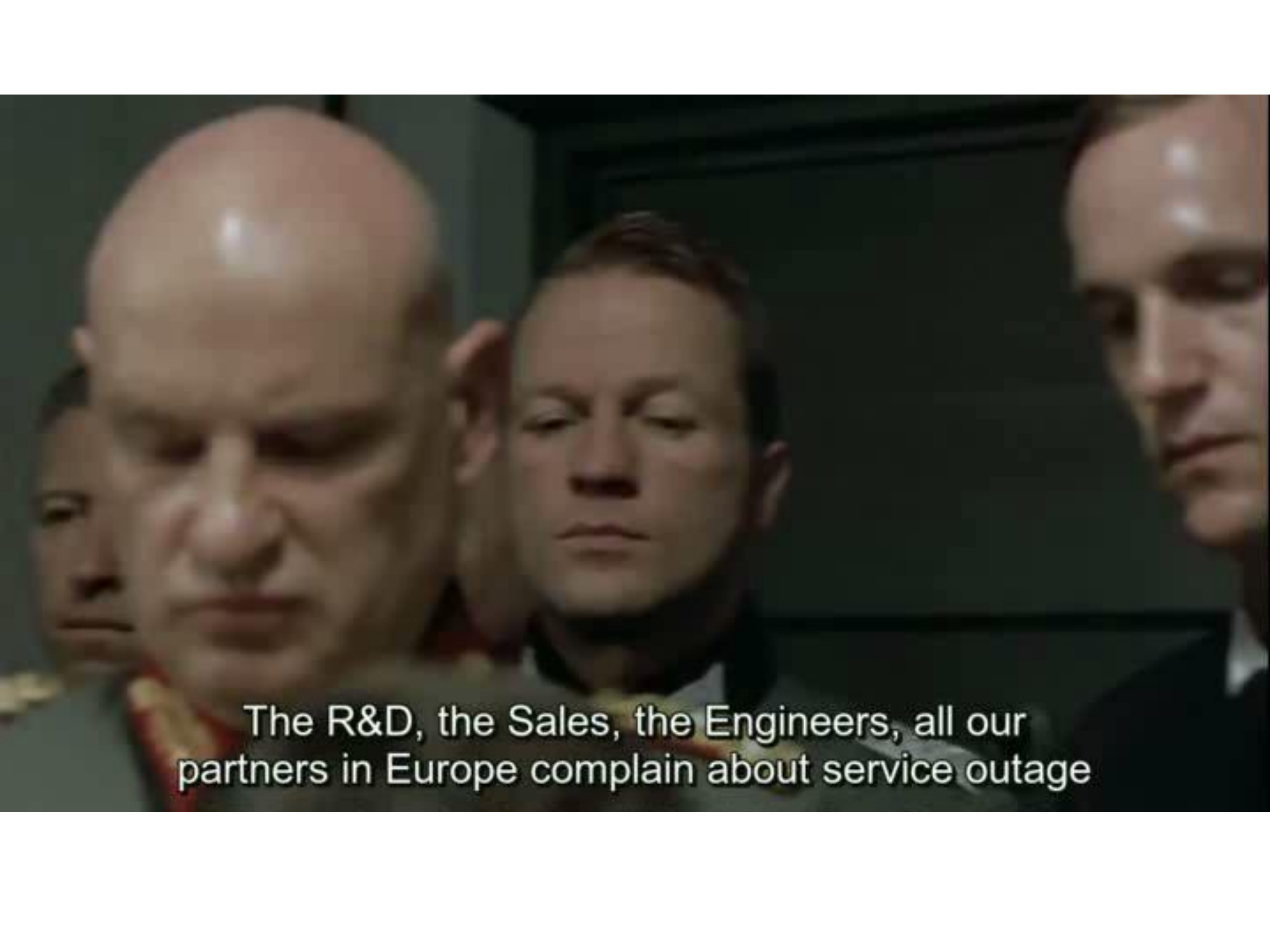
Private

Higher

Likelihood of
Data Security,
Privacy and
Control Breach

Lower





The R&D, the Sales, the Engineers, all our
partners in Europe complain about service outage

Hands off Security: Risk Assessment for the Clouds

- Resource Exhaustion
- Customer Isolation Failure
- Management Interface Compromise
- Data Leakage (intra-cloud)
- Insecure Deletion of Data
- Distributed/Economic DoS
- Compromise of Encryption Keys/Hypervisor
- Subpoena and E-Discovery
- Changes of Jurisdiction
- Licensing
- New Procurement Source



Hands off Security: Risk Assessment for the Clouds

- Social Engineering (to the Cloud Provider)
- Compromise of Logs
- Theft of Equipment
- Side Channel Attacks
- Reputation Attacks
- Encrypted Archives
- Co-residence attacks
- Data Sanitization
- Right to be forgotten
- Stakeholder SLA
- Lack of Vetting Process



Summary



- Cloud is here to stay
 - Selection of what to move and what to keep
 - Focus on user and data centric control models
 - Speak business
 - Cloud Security can further enhance business efficiency
 - Compliance becomes a byproduct
 - Keep calm and...prepare for the inevitable
-
- *Further Reading: NIST SP 500-299, ISO 27017, enisa.com, CSA,*



any questions ?

THANKS FOR
WATCHING