

# AXS | GUARD

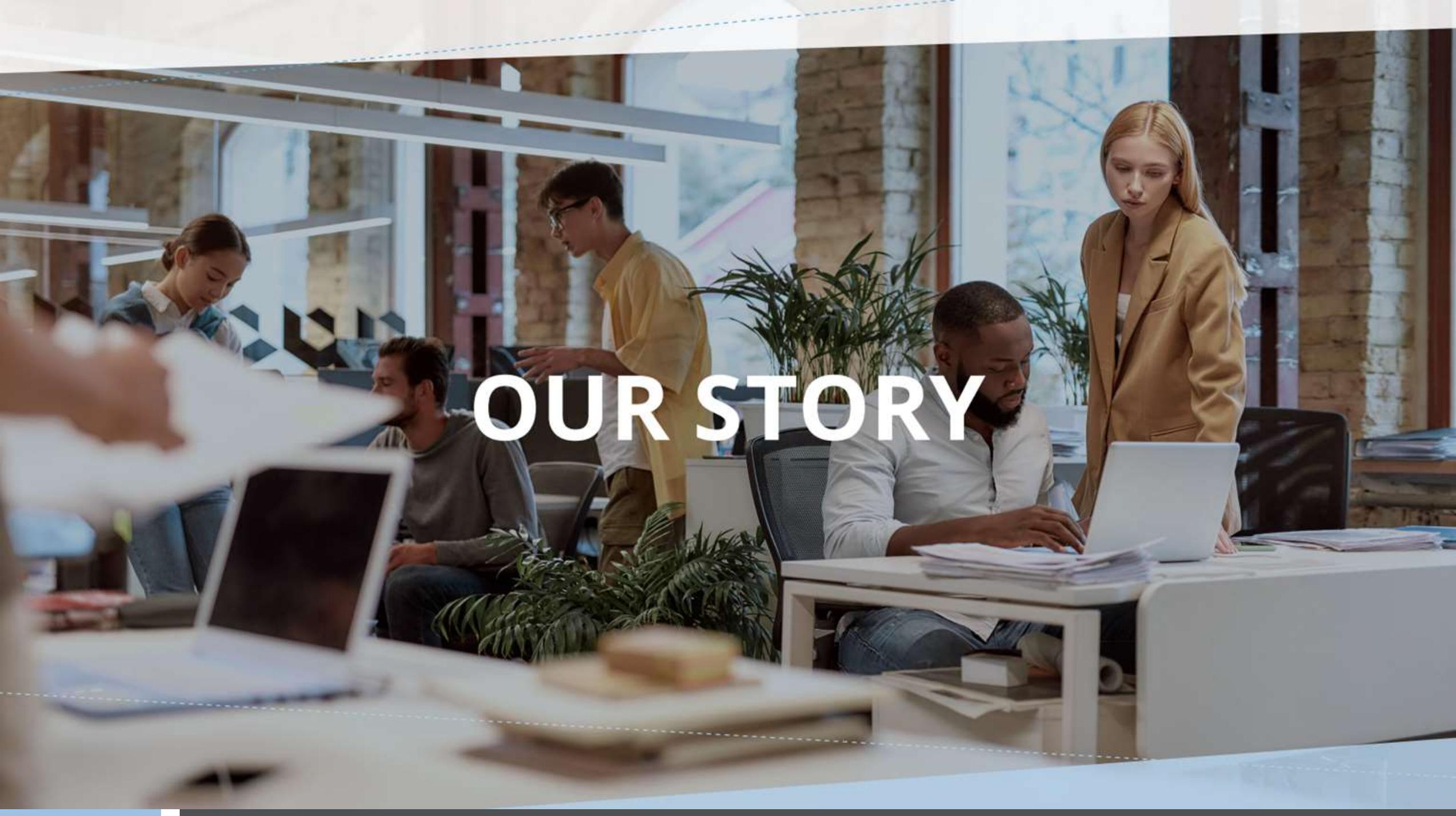
CYBERSECURITY WITHOUT WORRIES  
ALWAYS & EVERYWHERE

OpenShift (k8s++) & OpenStack technology  
in a real use case

# Agenda

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- What we do
- What we needed
- How we did it
- Lessons learned
- Q&A



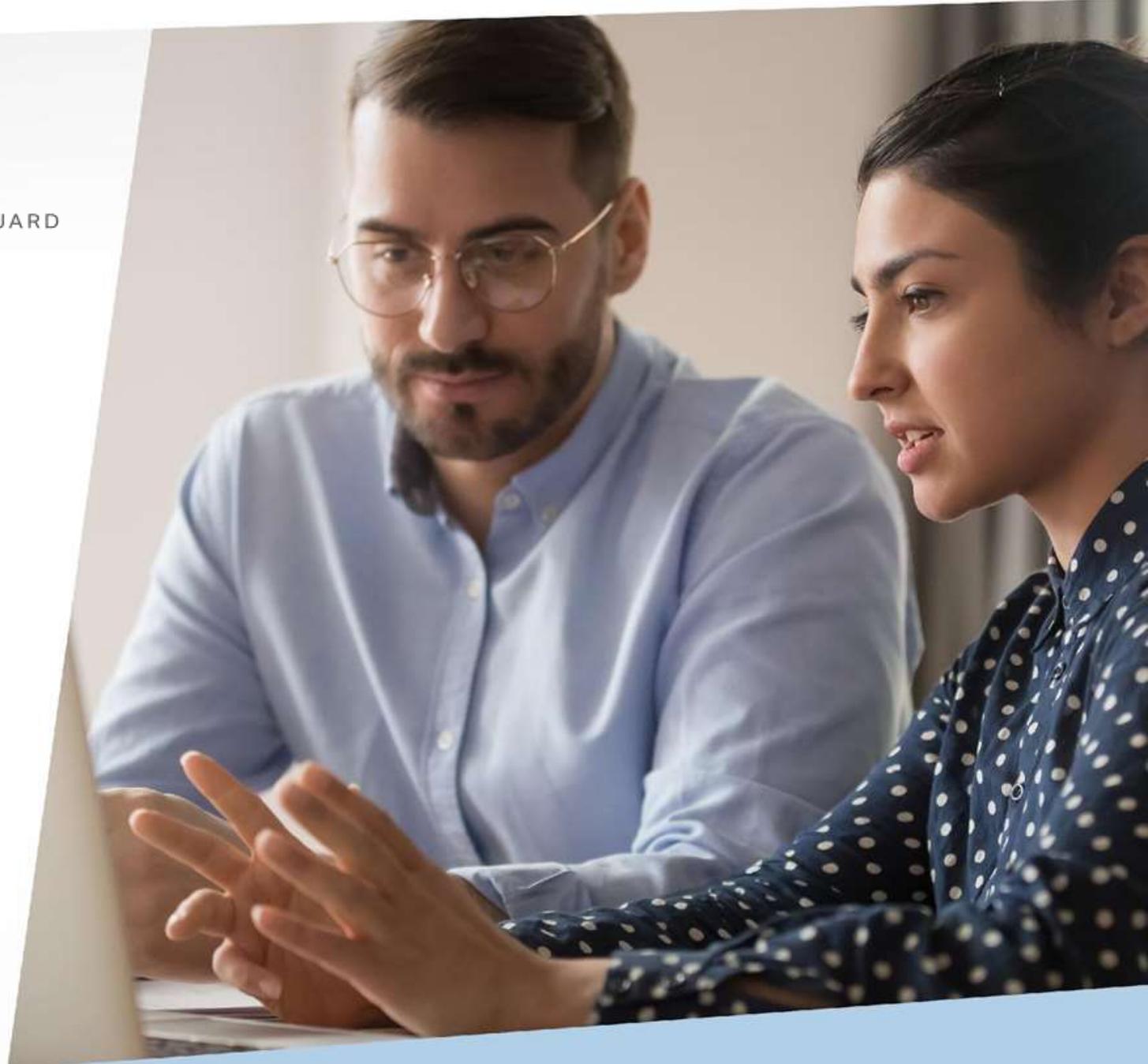
# OUR STORY

## WHO



# Over 25 years of expertise and local leadership in cybersecurity.

- Founded by Alex Ongena in 1996.
- Ahead of our time from the start with avant-garde security solutions.
- Continuous innovation in an ever-evolving cybersecurity landscape.
- Acquired twice over the years, proudly independent again since 2017.
- Protecting +1500 customers.



## WHAT

**AXS Guard's worry-free platform is a managed firewall that secures employees, sites and IT infrastructure.**

We offer a 'zero trust' approach: restricting access controls to anyone we do not know, without sacrificing performance and user experience. Never trust, always verify.

The AXS Guard platform covers the full spectrum of cybersecurity, including:

- Connectivity
- Application Security
- Network Security
- Access Protection
- Content Protection
- Device Protection



## WHY

# Because security shouldn't cause worry but bring peace of mind.

At AXS Guard, we believe that cybersecurity should never be a burden, and that a business' online security should always be on point, without any concerns.

**Our goal is to ensure that your company and your clients can focus on daily operations, fully protected and without worries or fear of reputational damage because of ransomware.**

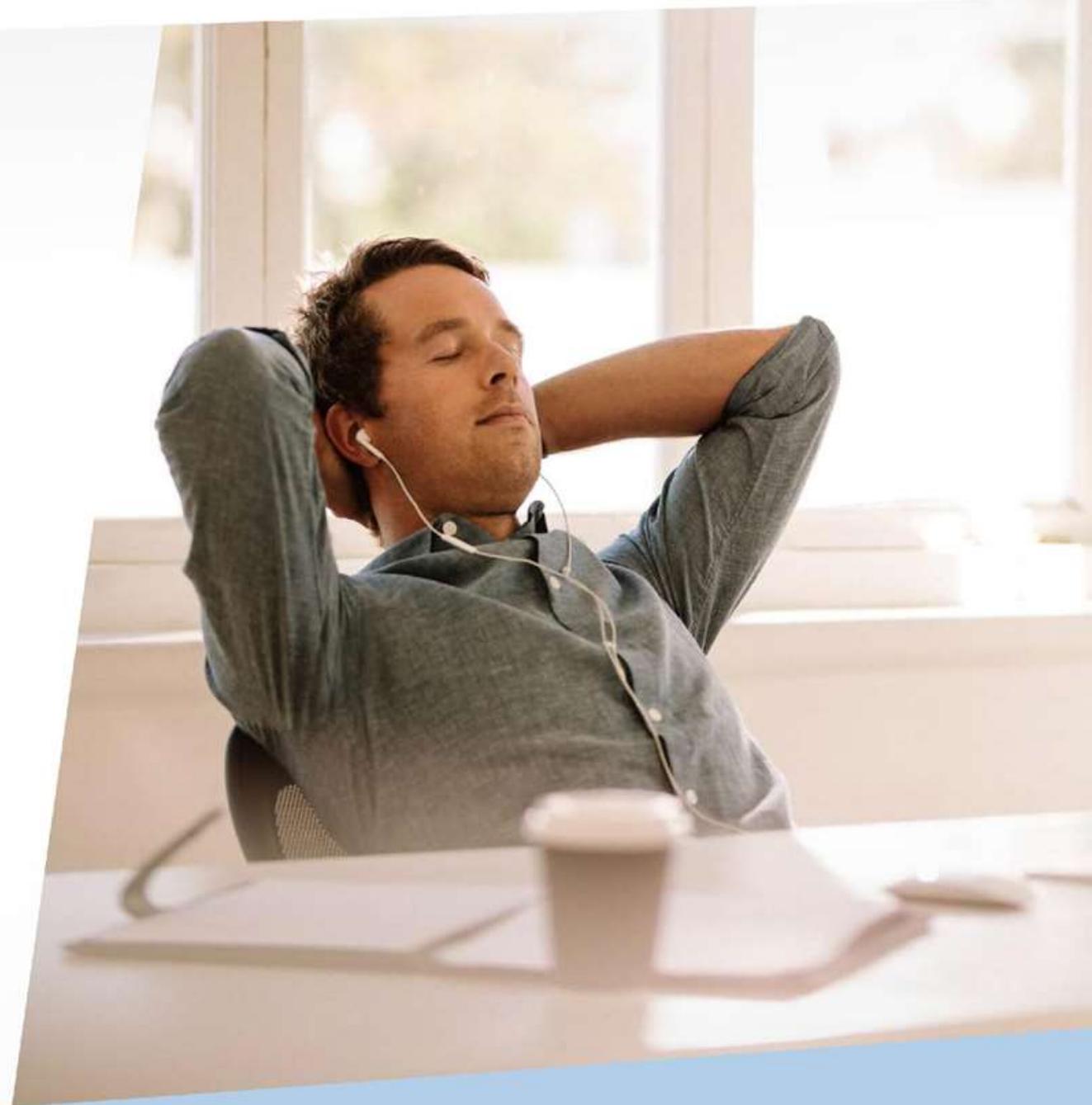
After all, staying safe is about mental well-being as well!

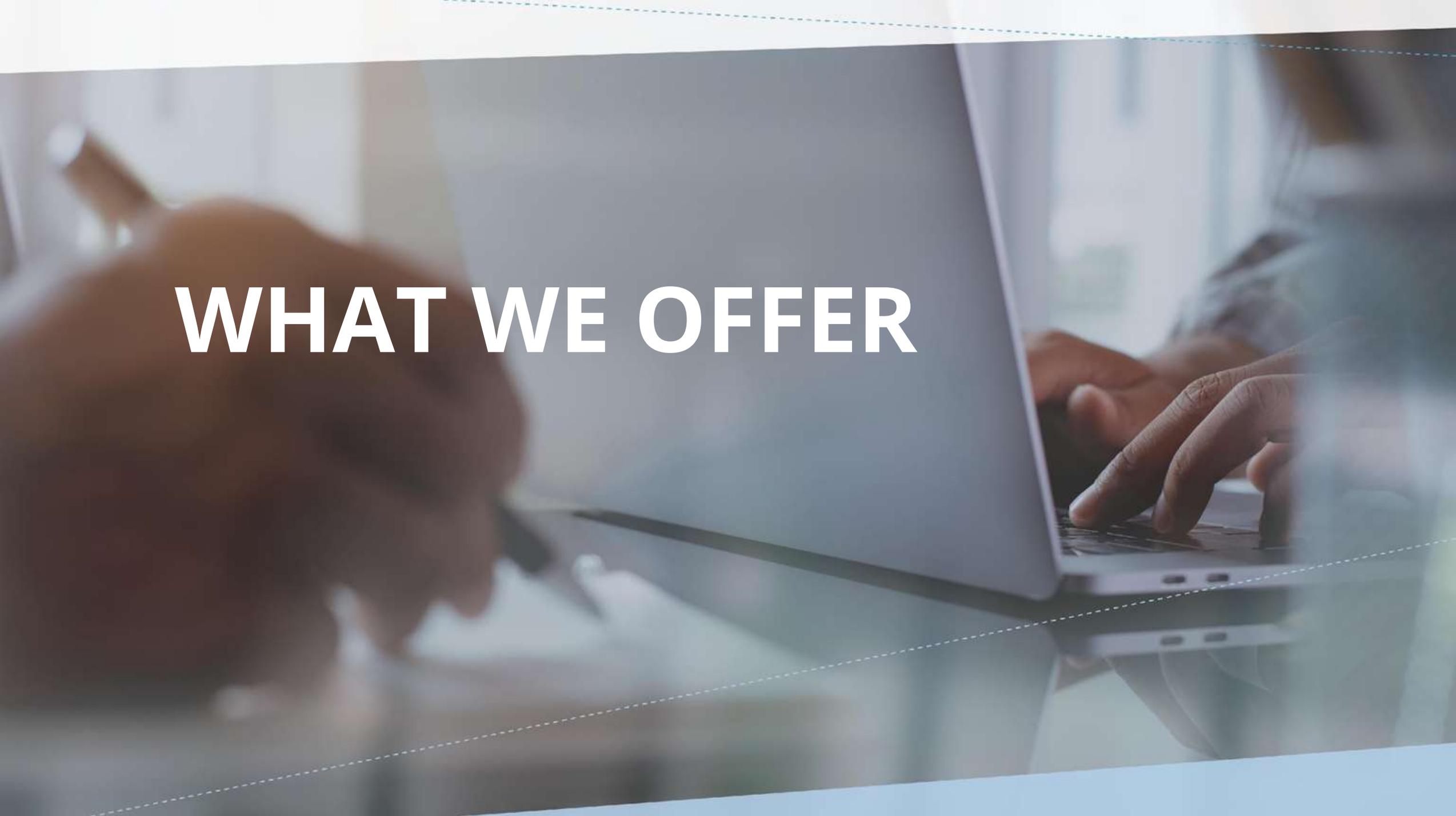
## HOW

# Solutions and services that allow you to sleep on both ears.

Our integrated security solutions are designed to address all your security concerns. We are always at your side. In-depth reseller support and training care part of an extensive partnership for anyone using AXS Guard services.

AXS Guard is a partner you can trust on.



A blurred background image showing a person's hands typing on a laptop keyboard. In the foreground, a piggy bank is visible, slightly out of focus. The overall scene suggests a connection between technology and finance. The text 'WHAT WE OFFER' is overlaid in the center in a bold, white, sans-serif font. The image has a light blue gradient at the bottom and top edges.

# WHAT WE OFFER

# A cybersecurity solution according to your needs and budget



## Bundles



## Basic

Contains all essential security features.



## Standard

The best option for most organizations.



## Enterprise

For extra security.

# AXS Guard works on the platform of your choice



## Platforms



## Hardware

Choose from a variety of performance levels, adapted to your needs and budget.



## Virtual

Deploy AXS Guard in your on-premise VM network.



## Cloud

Secure your Azure Cloud or hybrid environment.

## Additional security features



### **Strong Authentication**

One-time passwords are more secure than static passwords.



### **Premium Threat Protection Pack**

Complete cybersecurity protection. Including Geo Blocking, SecureDNS, Premium Web & Email Content Scanning.



### **ReaQta Endpoint Security (EDR)**

Effectively securing all users' devices against cyberthreats.



### **SecureDNS**

Intelligent, real-time protection at DNS level.

# Additional cybersecurity solutions



## Personal AXS Guard (PAX)

Hardware + software for VPN, to easily connect your company sites and/or machines with a central point.



## Remote Workspace

A secure, browser-based solution for all your home office users.



## AXS Guard Cloud

Central management portal to manage and troubleshoot any AXS Guard appliance remotely.

# Under the hood

- Hardware & Software Appliances
  - On premise
  - Public Cloud (Azure, AWS, Google)
- AXS Guard Cloud Platform
  - Central Management
  - Cloud Services
    - Update Services
    - Security Services



# Our needs?

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- Development
  - Appliances (= firmware)
  - Web Applications
  - Web [Security] Services
- QA & Testing
  - Automated
  - Human
- Production [Cloud] Services
  - Own Software
  - 3rd Party (Open Source)
  - 99.999% uptime
- Simulation of Customer environment

# Some facts & Figures

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- 30+ Security features
- 1+ Million lines of code
- 50+ Application Services
- 5+ Firmwares
- 30.000+ tests
- 70+ backend systems
- 3 environments  
(dev,qual,prod)
- 2 datacenters
  
- 10 developers

# How do we manage this?

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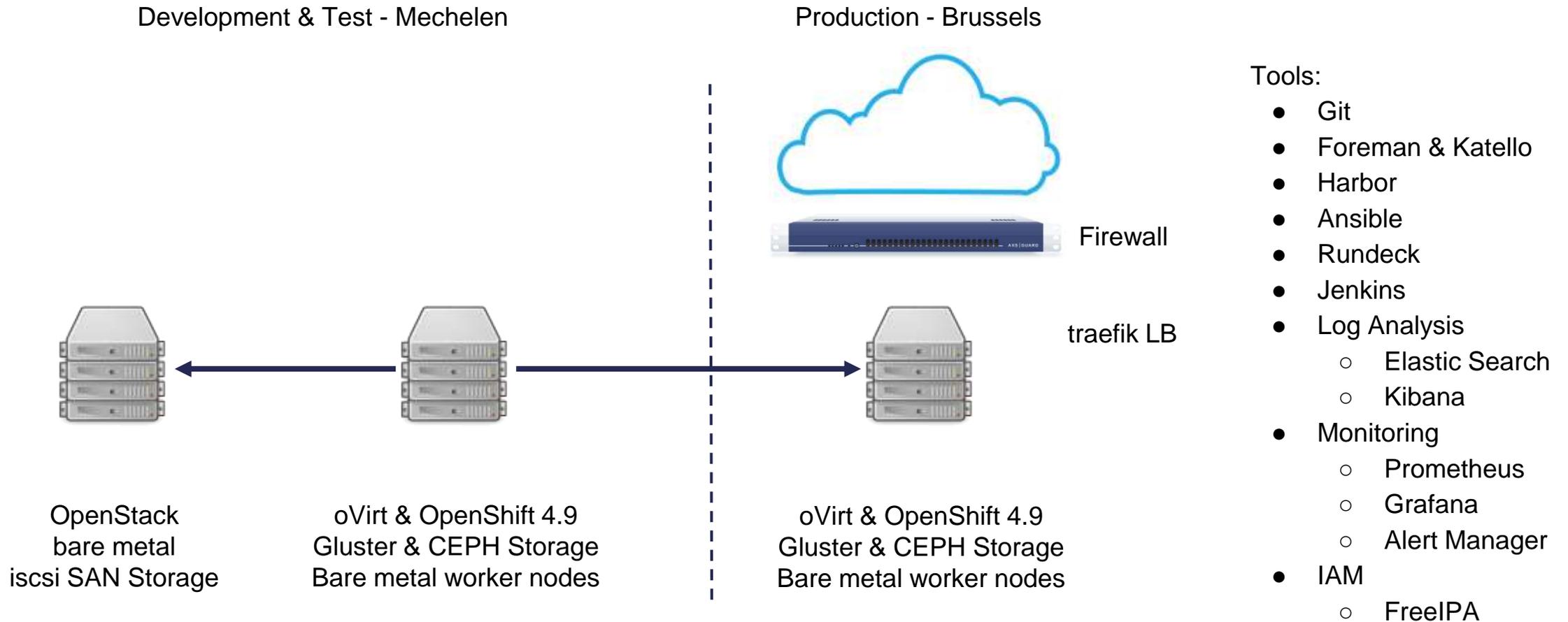
## Hardware & tooling

- Linux & Open Source only
- Everything runs everywhere on own hardware
- oVirt - general purpose virtualisation @ each location
- Multi node OpenShift cluster @ each location
- Multi node OpenStack

## Apply all modern techniques

- DevOps pure sang
  - Full Automation
  - CI/CD
  - Configuration as Code
- Delegate Production responsibility to Developers

# Simplified view



# Purposes 1/2

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## **OpenShift Mechelen:**

- Product builds (source -> image)
- Application builds (source -> image)
- Unit tests
- System Test “driver”

## **OpenStack:**

- Unit under test (Product)
- Surrounding Services & Back End Servers (M\$ mainly)
- Customer Setup simulation by Support
- Developer Test Setups

# Purposes 2/2

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## **OpenShift Brussels:**

- Cloud Applications
- Update Services
- Own Production Applications
- ...

# Lessons Learned

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- Own Hardware vs Public Cloud is \$ vs \$\$\$\$\$
- Automate, automate, automate, ....
- **Git is the only** source of truth
  - Source code / documentation / ...
  - Infrastructure as code
  - CI/CD code
- Use your own repository system for sources, images, ...
  - Sources, Images & tags on public repos disappear regularly
- Migrate all your Applications to containers
- Update often, move forward in small steps, no big bang
- Maintain your own base images
- Use k8s Operators

A hand is pointing at a laptop screen. The background is a blurred image of a person's hand pointing at a laptop screen, overlaid with a semi-transparent blue filter.

# THANK YOU

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