

CISCO *Live!*



#CiscoLive



The bridge to possible

# Transforming Security with Simplicity in Times of Uncertainty

IT Leadership Program

Josephina A Fernández

Sr Director – Enterprise Security

ITLGEN-2103

CISCO *Live!*

#CiscoLive



# Agenda

Industry

Challenges

Approach

Key  
Takeaways

# Slido Question:

What is your biggest security challenge at the moment?



# Evolving threat landscape

A new approach to security is needed  
to address identity, application, and network threats

## Targeting Identity



## Targeting Apps



## Targeting Devices



# Evolving threat landscape



Let's see the results from Slido!



# Challenges Faced

## Technology

Technical debt: complexity and lack of scalability

Heavy reliance on home-grown tools

Redundant solutions

Lack of standardization across '000s of applications



## Resources

Fragmented security teams

Lack of accountability model within leadership team

Delivering multiple things without focus on priorities

IP risk due to geographical presence of teams



## User Experience

Authentication

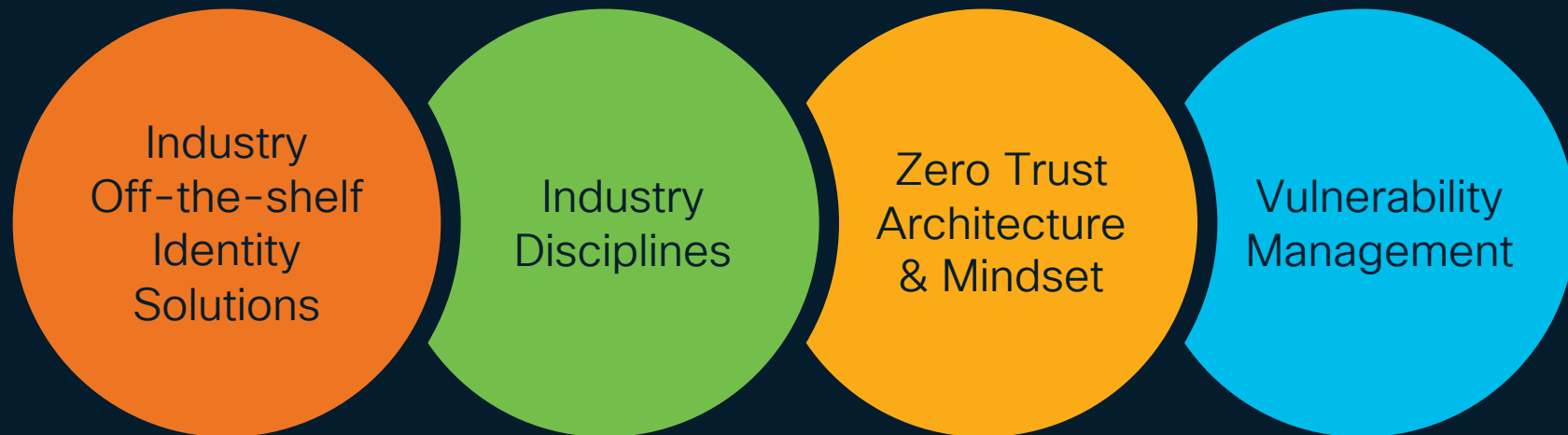
Frequent password resets

Inconsistent experience when accessing apps (VPN, no VPN)





# Approach



# Industry Off-the-shelf Identity Solutions

## New Internal & External Identity Provider



Align “Cloud First” and  
“Buy vs Build” principles

Address “Strengthen the Core” gaps

“Co-development”  
and “showcasing Cisco  
technology at scale”

## Identity Governance



Opportunity to reduce Total Cost of  
Ownership(TCO)

Adopt industry standards

Drive adoption of our services by  
Engineering Business Units(BUs)

## Privileged Identity Management



Address proliferation of tools across  
different teams

Eliminate reliance on homegrown code in  
favor of standard integrations

Full cycle solution to managing privileged  
accounts

# Industry Disciplines

## External Directory Services

Identity lifecycle, directory, authentication, federation, and entitlements

## Internal Directory Services

Directory and Authentication services

## Identity & Access Management

Creates, changes and exit accounts  
Integrates with HR, directories and applications

## Privileged Identity Management

Defines and protects privileged accounts, passwords, certificates and keys

## Data Security

Protect from external & insider threats  
Data classification & risk determination  
Workstation security

## Architecture & Research

Central team  
Visions, POC's & strategies  
Research risks/attacks & response

## Security Intelligence Monitoring & Response

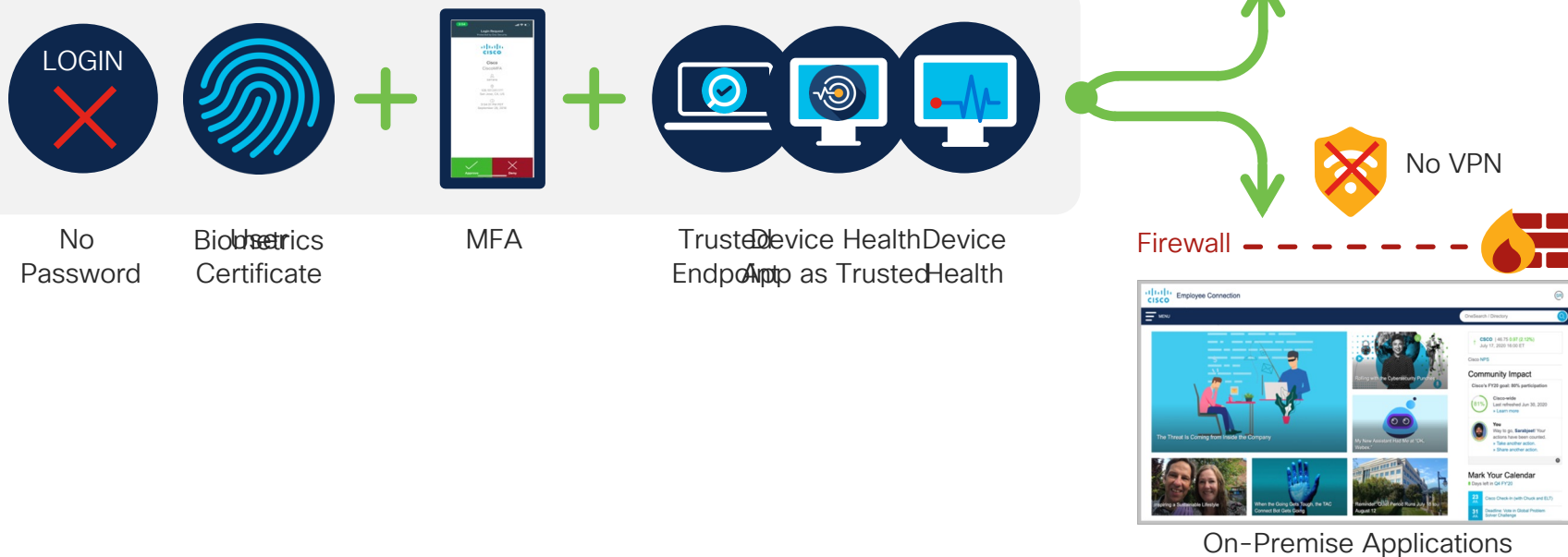
Authentication, access, data usage/protection and device posture

Integrated with all security platforms and selected application

Supports Zero Trust & Removal of 90-day password changes

# Zero Trust

Borderless Access with Improved Authentication





# 5-Month Deliverables

Initial deployment of Zero Trust leveraging Duo to 21% of the workforce.

Offered  
borderless  
application  
access

Improved  
authentication  
experience

Reduced  
information risk



Enable borderless  
(VPN-less) access to  
10-15 identified applications



Deploy user/device  
certificates



Per-app access  
controls



Does not impact  
existing experience

# Inventorizing Vulnerabilities

## Goal

Efficiently remediate Observable/Exploitable Vulnerabilities for the inventory of applications managed by an Organization.

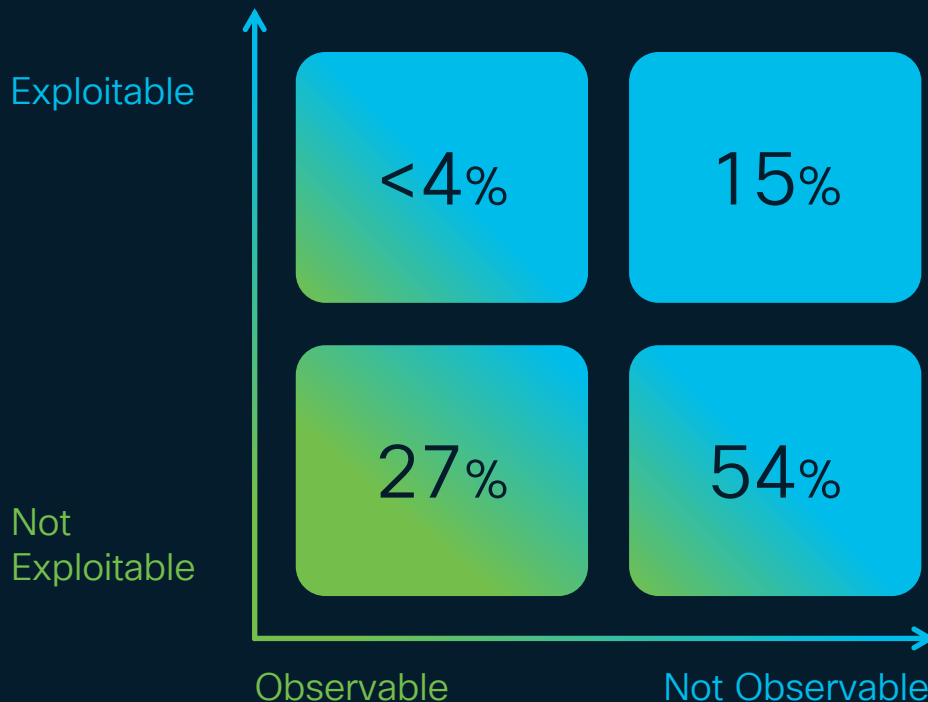
Communication Channels

Consistent Coverage/Identification

Platform Efficiency

Velocity

Capacity



# Key Takeaways & Lessons Learned

Accelerating  
through  
Standardization

Consolidate capabilities  
Increase interoperability

Organizing  
around  
Industry  
Disciplines

Drive clear accountability  
Align on a joint vision

Introducing  
Zero Trust  
principles to  
organization

Improve security AND  
user experience  
  
Start small,  
gain experience,  
expand

Vulnerability  
Management

Prioritize Observable  
and Exploitable  
vulnerabilities

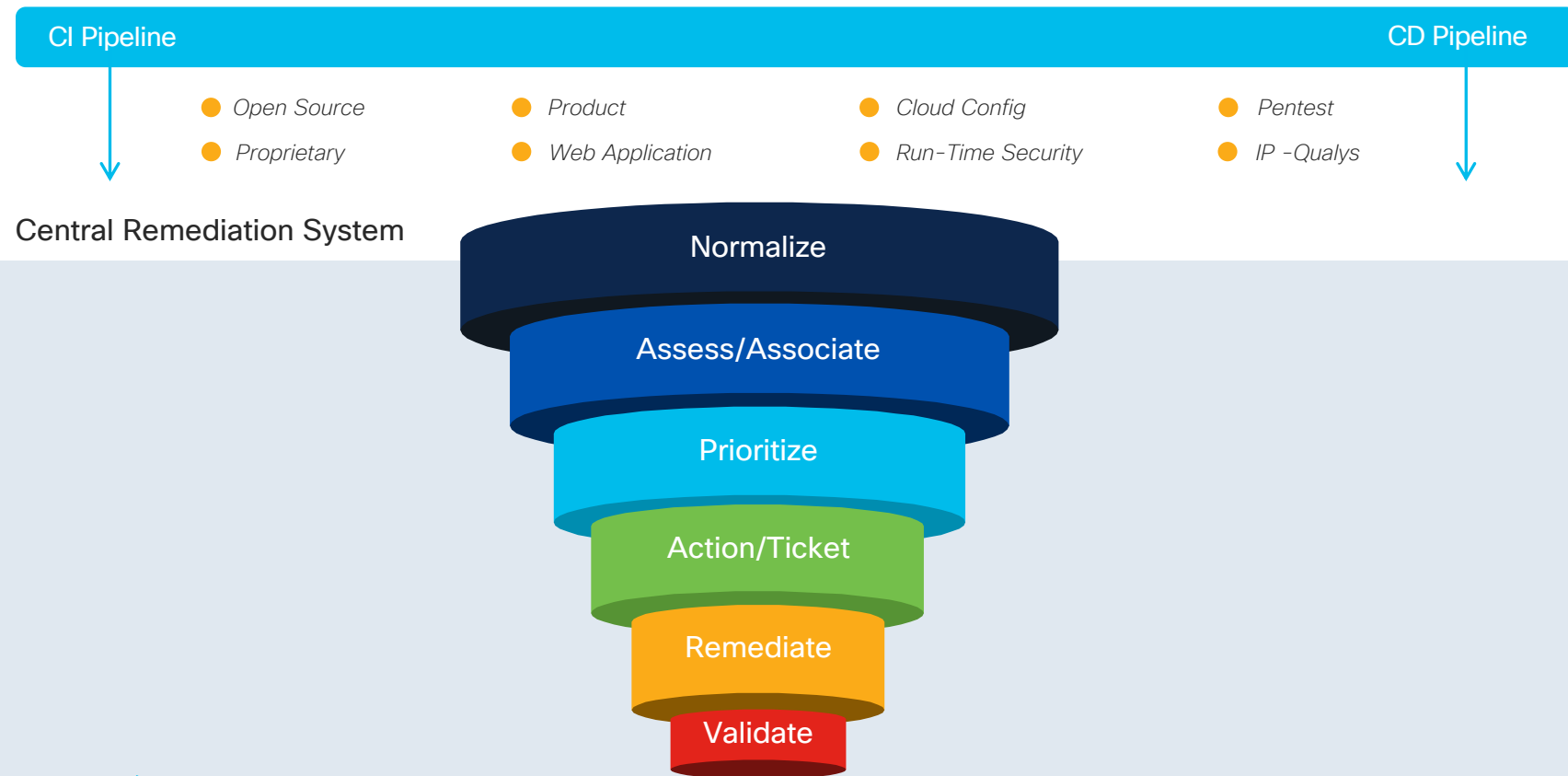


The bridge to possible

# Thank you



# Critical Stages of Remediation Workflow Cycles



CISCO *Live!*



#CiscoLive

# Industry Off-the-shelf Identity Solutions

## New Internal & External Identity Provider



Align “Cloud First” and  
“Buy vs Build” principles

Address “Strengthen the Core”

“Co-development”  
and “showcasing Cisco  
technology at scale”

## Identity Governance



Fulfillment & Verification

Reviews & Certification

Risk Assessments

Role Mining, Analysis  
& Management

## Privileged Identity Management



Privilege Accounts

Identity Administration

Cloud Service Administration

Critical Business Administration

Security & Management Tools

# Closing



Visit the Cisco Showcase for related demos.



Book your on-demand meeting.



Attend the event, Capture the moments



Visit the On-Demand sessions at [www.CiscoLive.com/on-demand](http://www.CiscoLive.com/on-demand)

Add your own take-away bullets

Josephina: Shortened  
some of the text below.

# Key Takeaways & Lessons Learned

Executive  
Buy-in/  
Sponsorship

'Air Cover' enables team  
to be bold and move  
quickly

Introducing  
Zero Trust  
principles to  
organization

Share benefits to  
employees/leadership

Start small,  
gain experience,  
expand

Lean team  
structure for  
the cross  
functional team

Empower individuals  
who make decisions for  
their organization

Active  
communications

Respond publicly to  
public input/critique

Leveraging weekly  
newsletter for  
momentum and  
sense of urgency