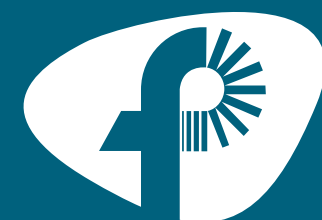




Expand your network across clouds while increasing your security level?

Antonis Paravalos
Networking Unit Manager
and Solutions Architect

vmware®



performance



CYBERSECURITY AND
CONTINUITY SOLUTIONS

Hello!

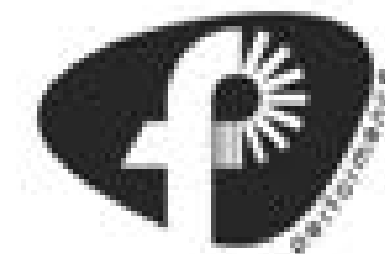
We are Trusted by Enterprises of all sizes

Partners with world-class Vendors

Engineers who love solving problems

Pragmatic and focused on your needs

We are **Performance**



Protecting
Enterprises
since 1997



Attackers: Prolific and Sophisticated



70%

**Lateral
Movement**



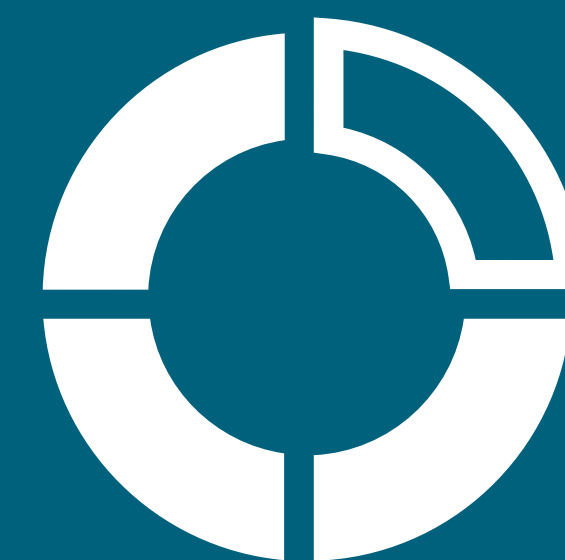
59%

**Internal
Attacks**



~24
days

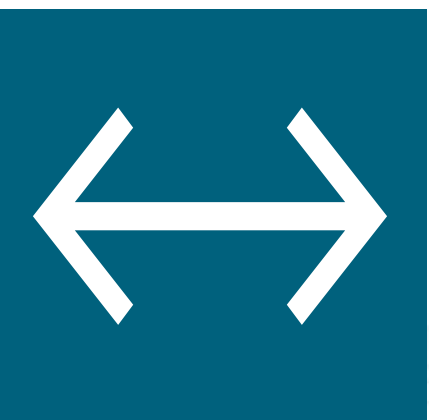
**Dwell
Time**



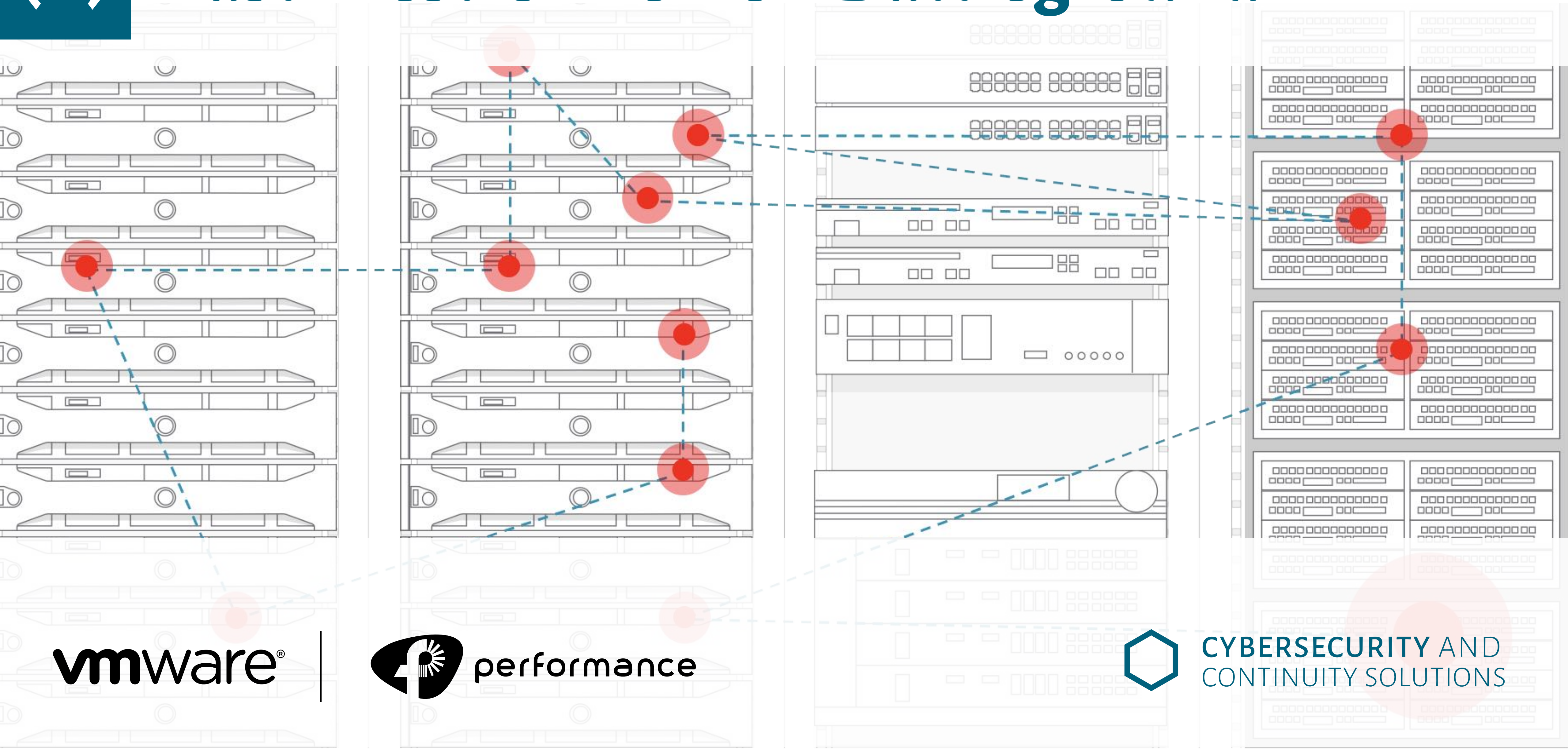
25%

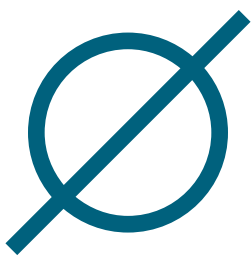
**Investigation
after ransomware**





East-West Is The New Battleground





Zero-Trust network segmentation



VISIBILITY

“Trust no one”



SEGMENTATION

“Least privilege access”



AUTOMATION

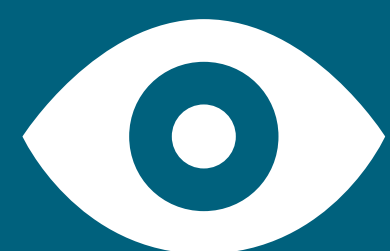
“Complexity is the enemy”



CYBERSECURITY AND
CONTINUITY SOLUTIONS



Zero-Trust network segmentation



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AUTOMATION

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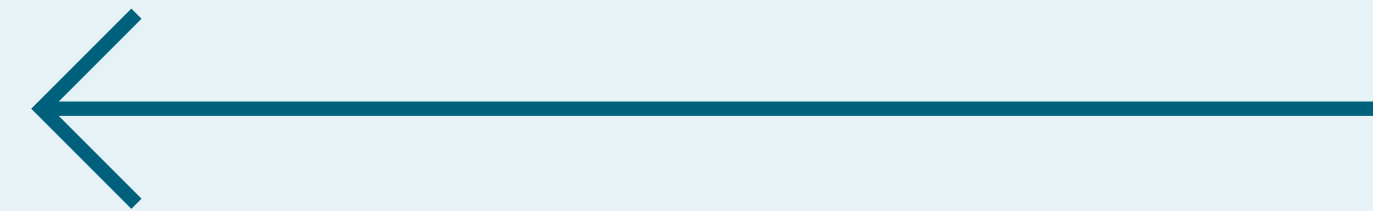
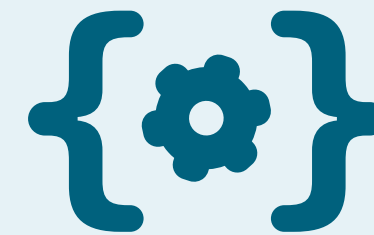
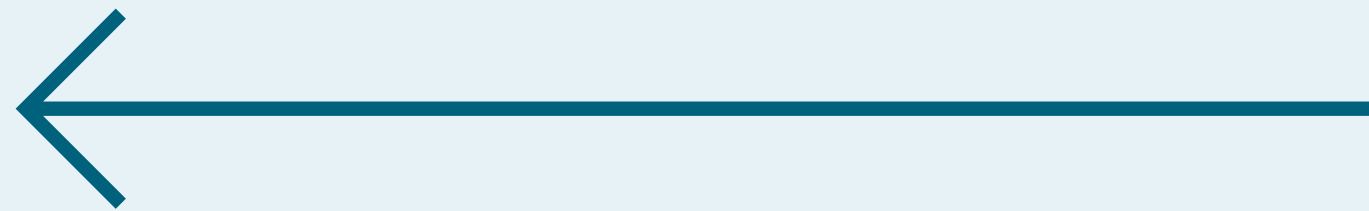


CYBERSECURITY AND
CONTINUITY SOLUTIONS



Visibility & Transparency

End-to-end **within** app stack



database

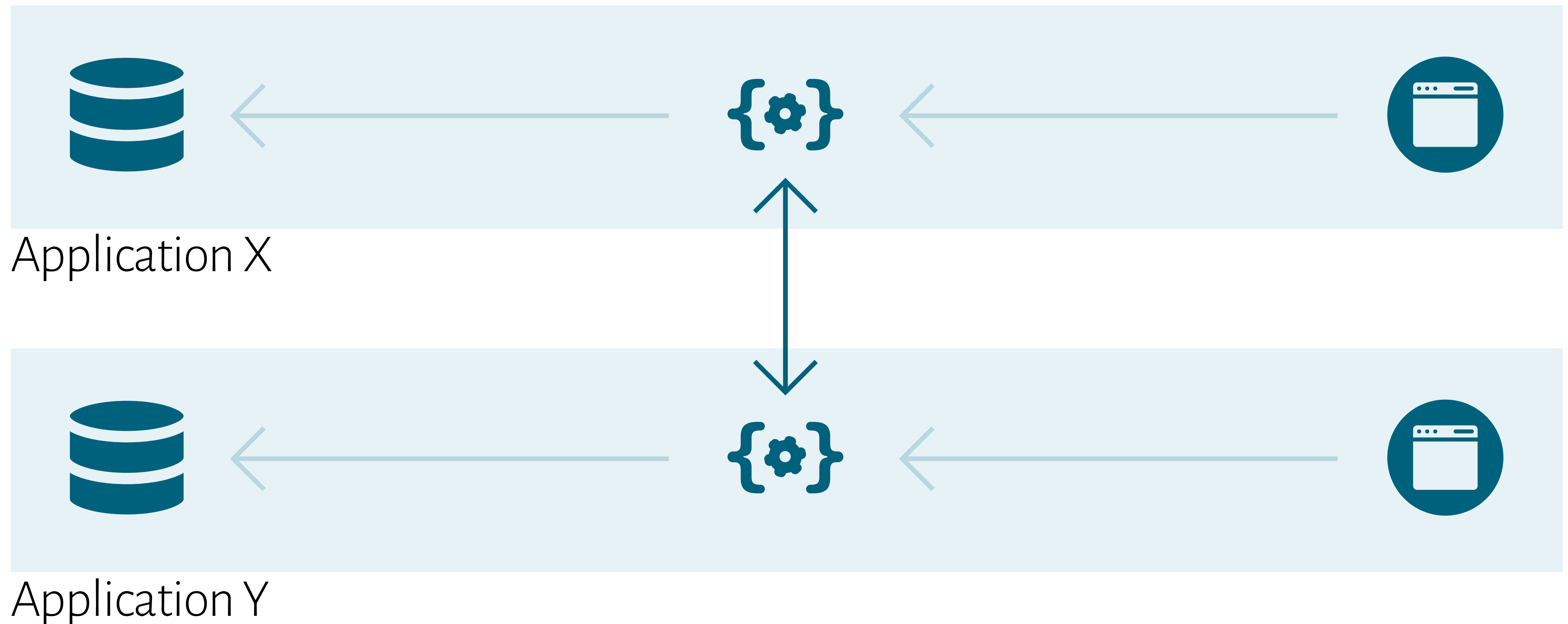
application

web server



Visibility & Transparency

Between application stacks

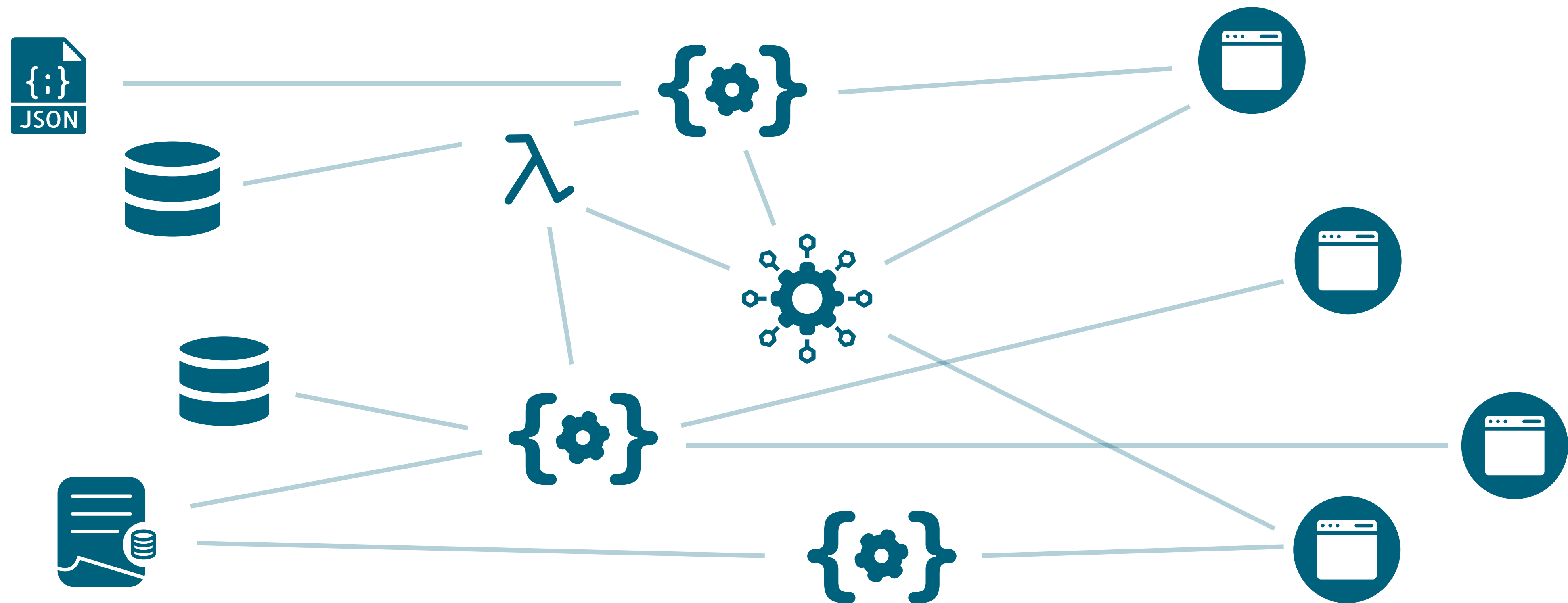




Visibility & Transparency



What about modern architectures

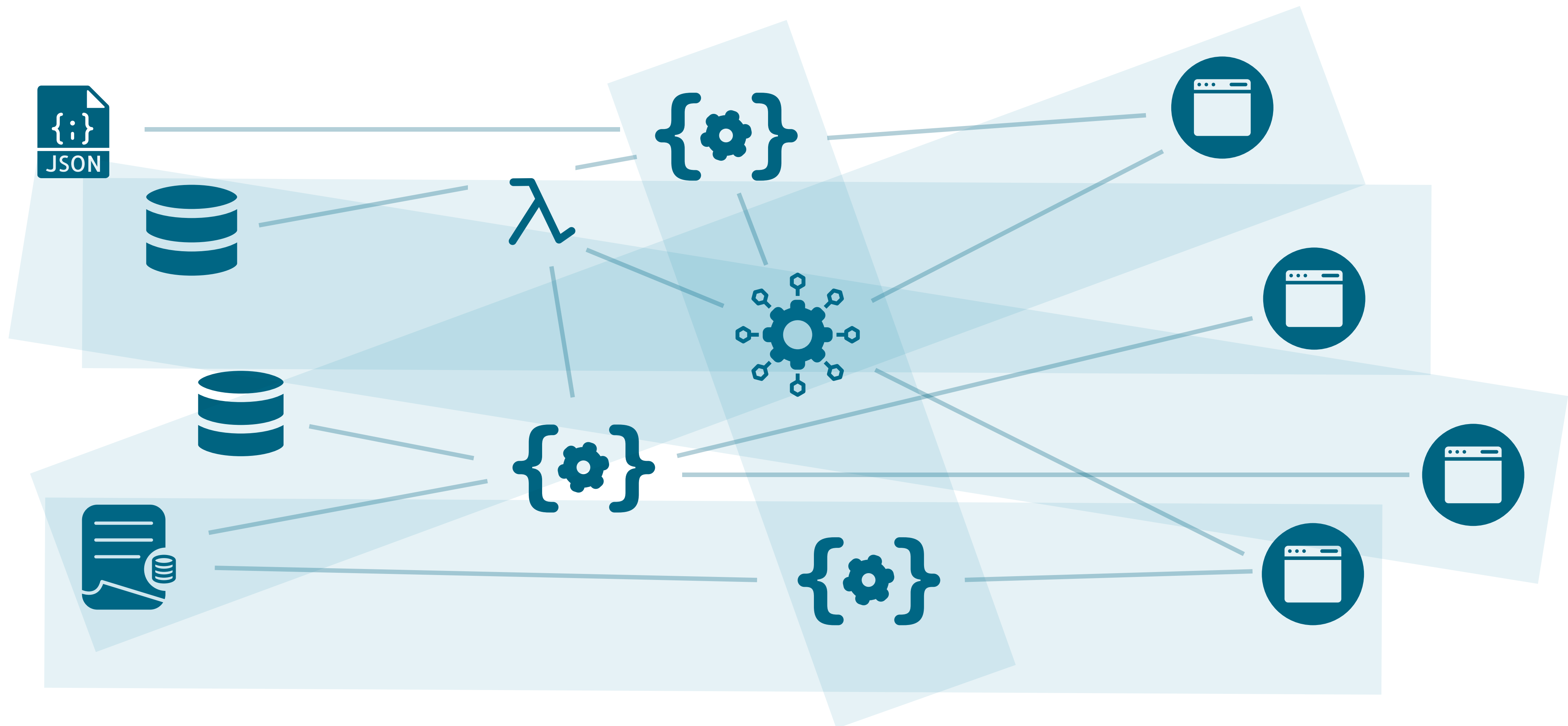




Visibility & Transparency



What about modern architectures





Zero-Trust network segmentation



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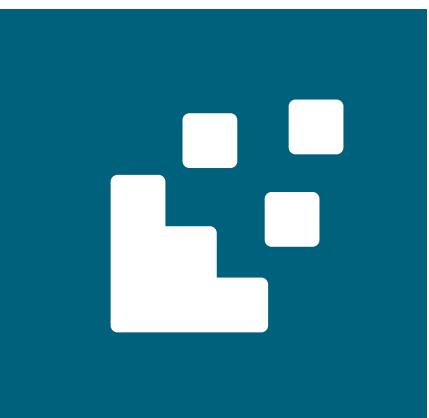


AUTOMATION

“Complexity is the enemy”

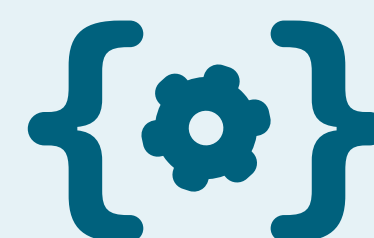


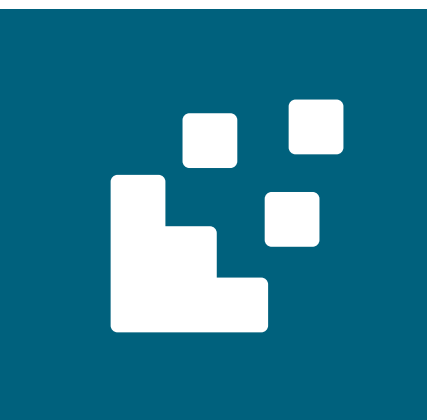
CYBERSECURITY AND
CONTINUITY SOLUTIONS



Segmentation of traffic

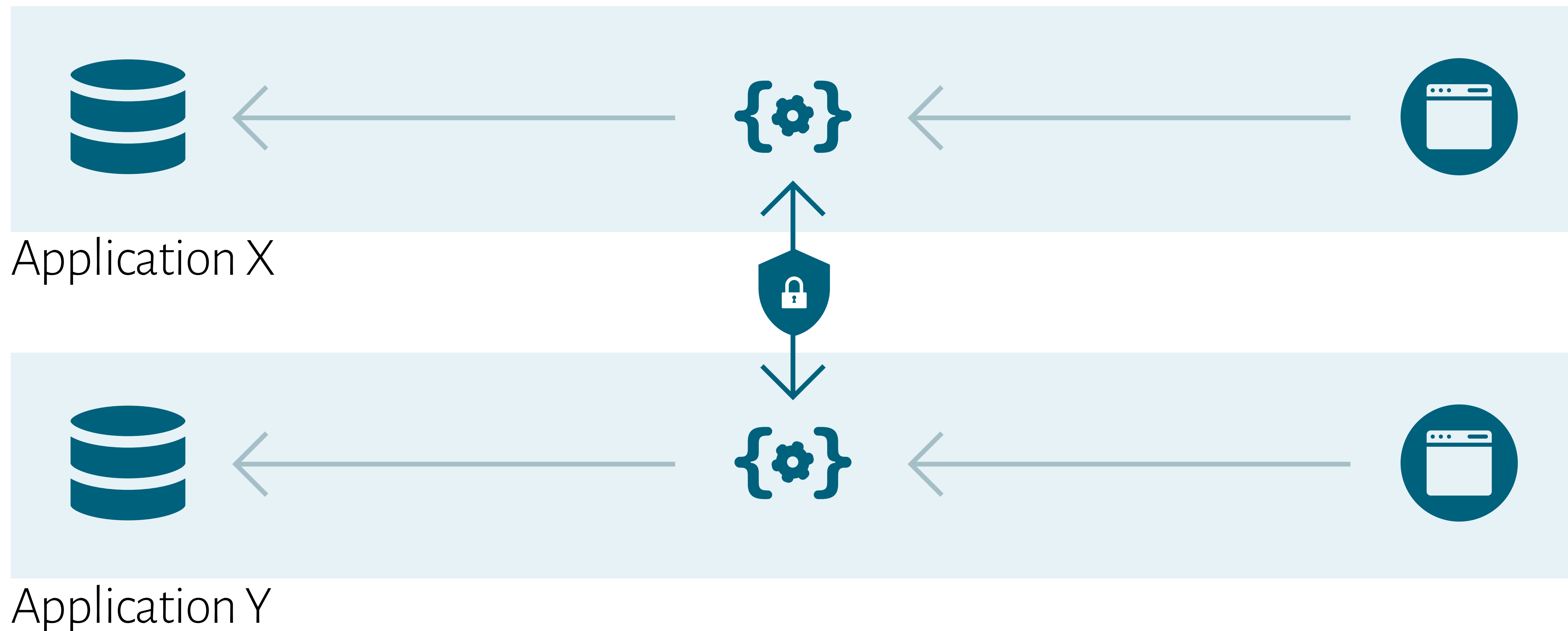
Micro segmentation

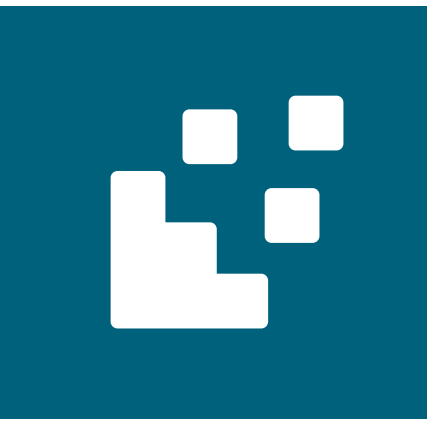




Segmentation of traffic

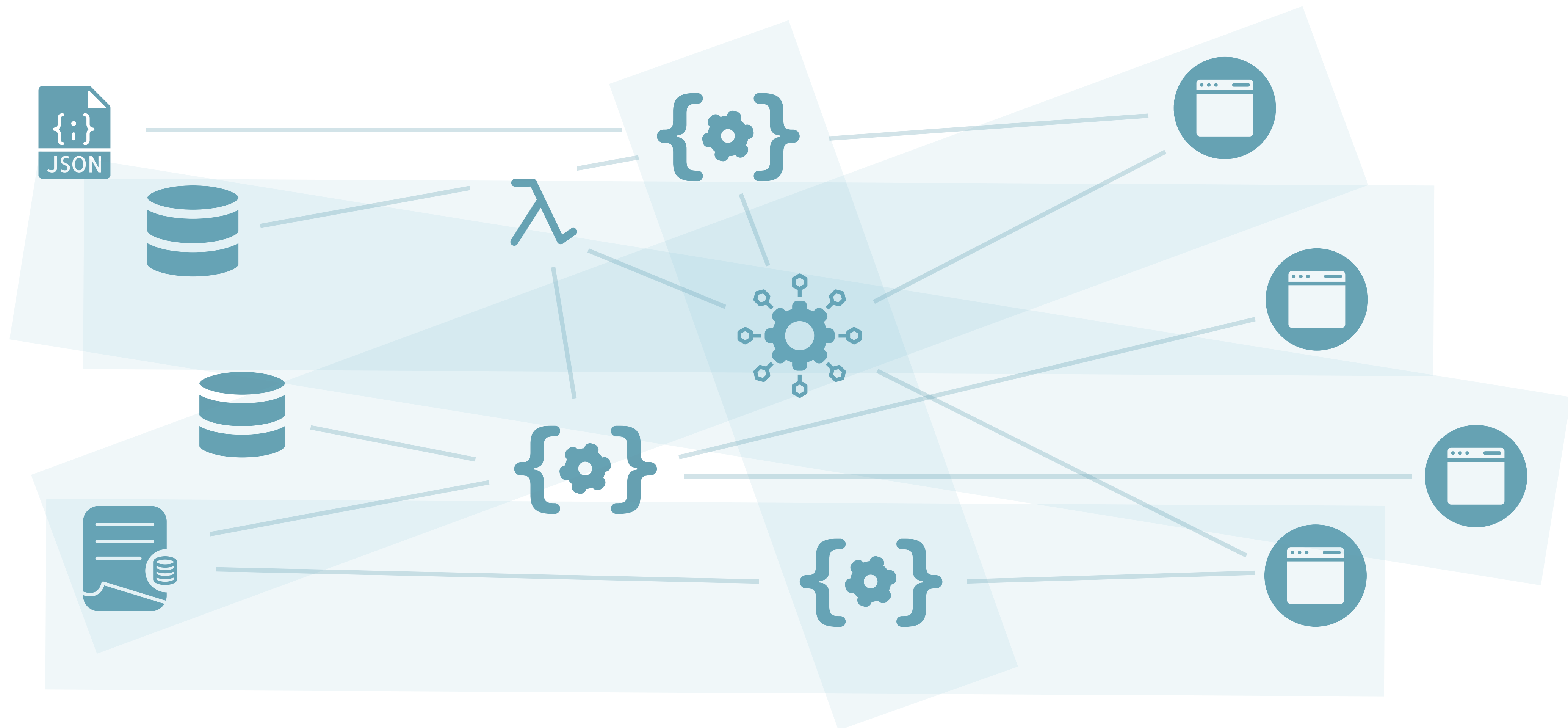
Macro segmentation





Segmentation of traffic

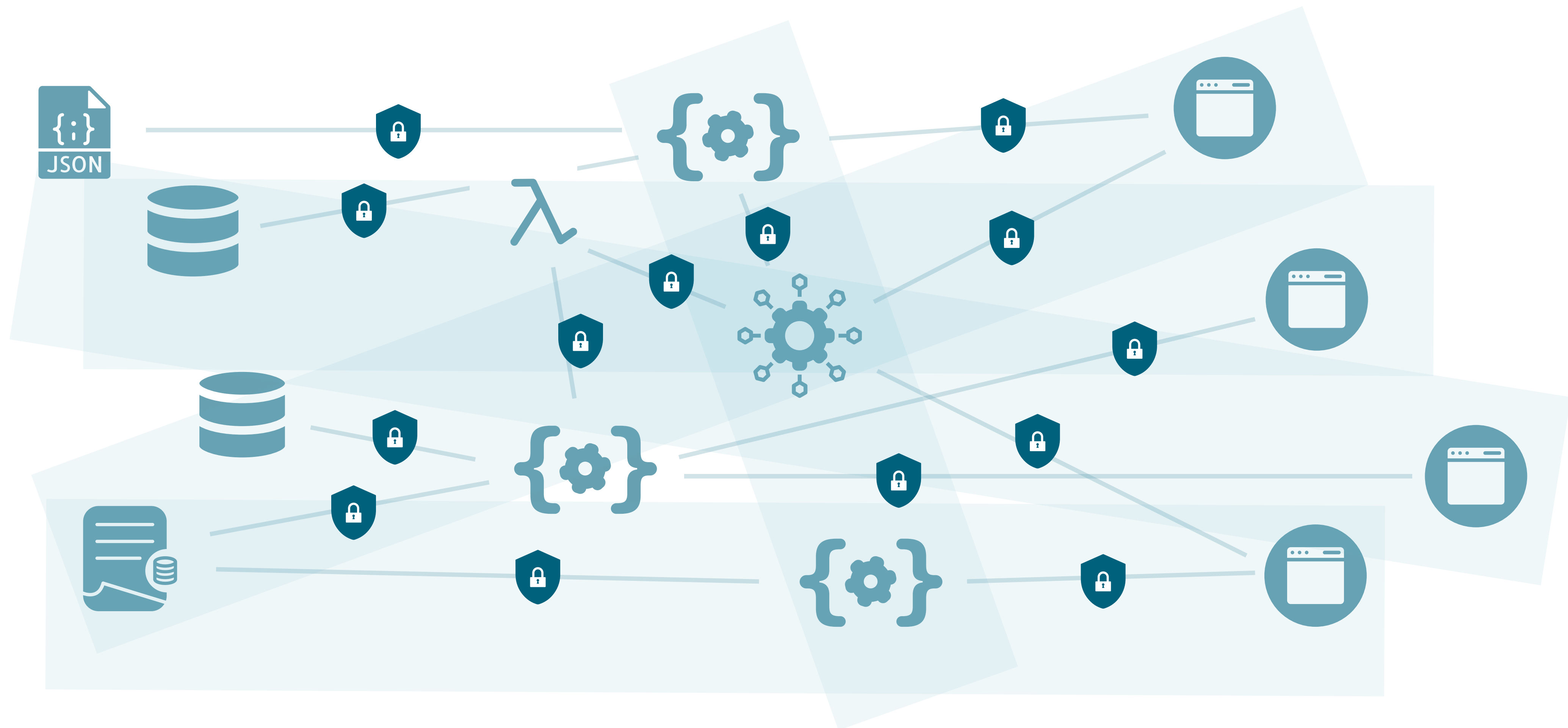
Micro = Zero trust segmentation

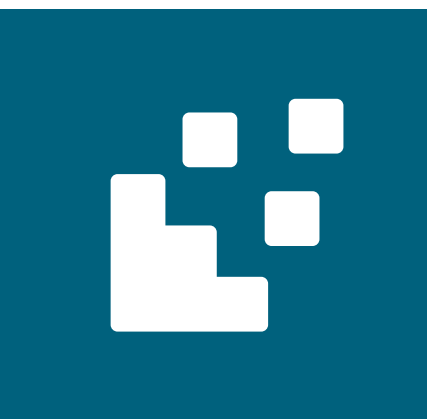




Segmentation of traffic

Micro = Zero trust segmentation





New segmentation tools



Name	ID	Sources	Destinations	Services
<input type="checkbox"/> Global Policies	(3)			
<input type="checkbox"/> Windows and Linux Servers to DNS	5100	<div><div></div>Linux Servers</div> <div><div></div>Windows Servers</div>	<div><div></div>DNS Servers</div>	<div><div></div>DNS</div>
<input type="checkbox"/> Windows Servers to DCs	5101	<div><div></div>Windows Servers</div>	<div><div></div>Domain Controllers</div>	<div><div></div>Active Directory Server</div>
<input type="checkbox"/> Block Remote Desktop to Windows	5102	Any	<div><div></div>Windows Servers</div>	<div><div></div>RDP</div>
<input type="checkbox"/> App-A Section	(2)			
<input type="checkbox"/> Web to Application	5097	<div><div></div>App-A Web Servers</div>	<div><div></div>App-A Application Se...</div>	<div><div></div>App-A Service Ports</div>
<input type="checkbox"/> Application to DB	5098	<div><div></div>App-A Application Serv...</div>	<div><div></div>App-A DB Servers</div>	<div><div></div>Oracle</div>



Zero-Trust network segmentation



VISIBILITY

“Trust no one”



SEGMENTATION

“Least privilege access”



AUTOMATION

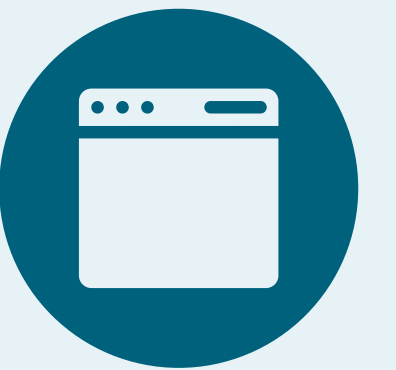
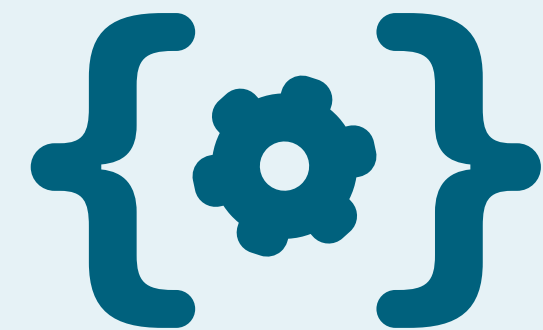
“Complexity is the enemy”



CYBERSECURITY AND
CONTINUITY SOLUTIONS



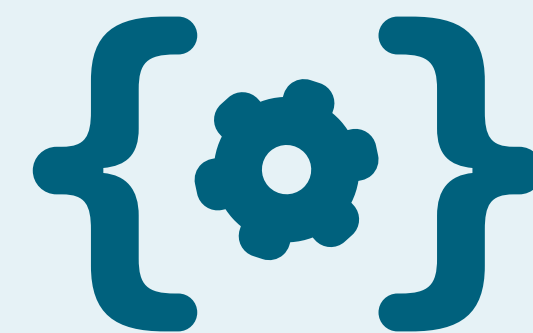
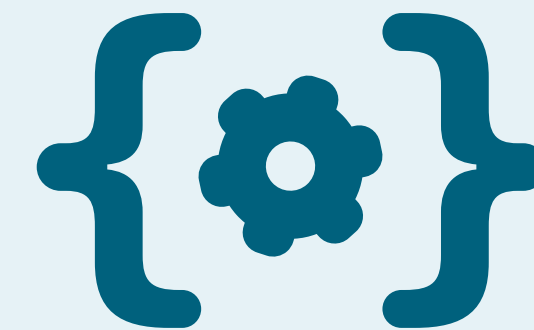
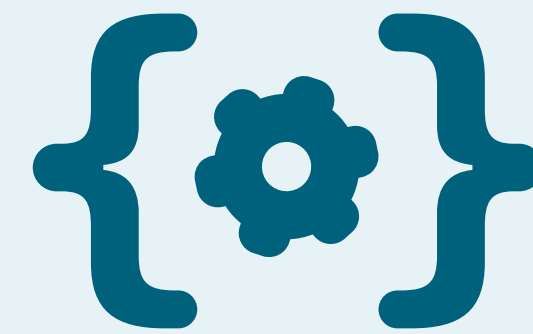
Automation & central policies





Automation & central policies

 GUARD





Visibility across Clouds

Zero-Trust Multi-cloud Networking



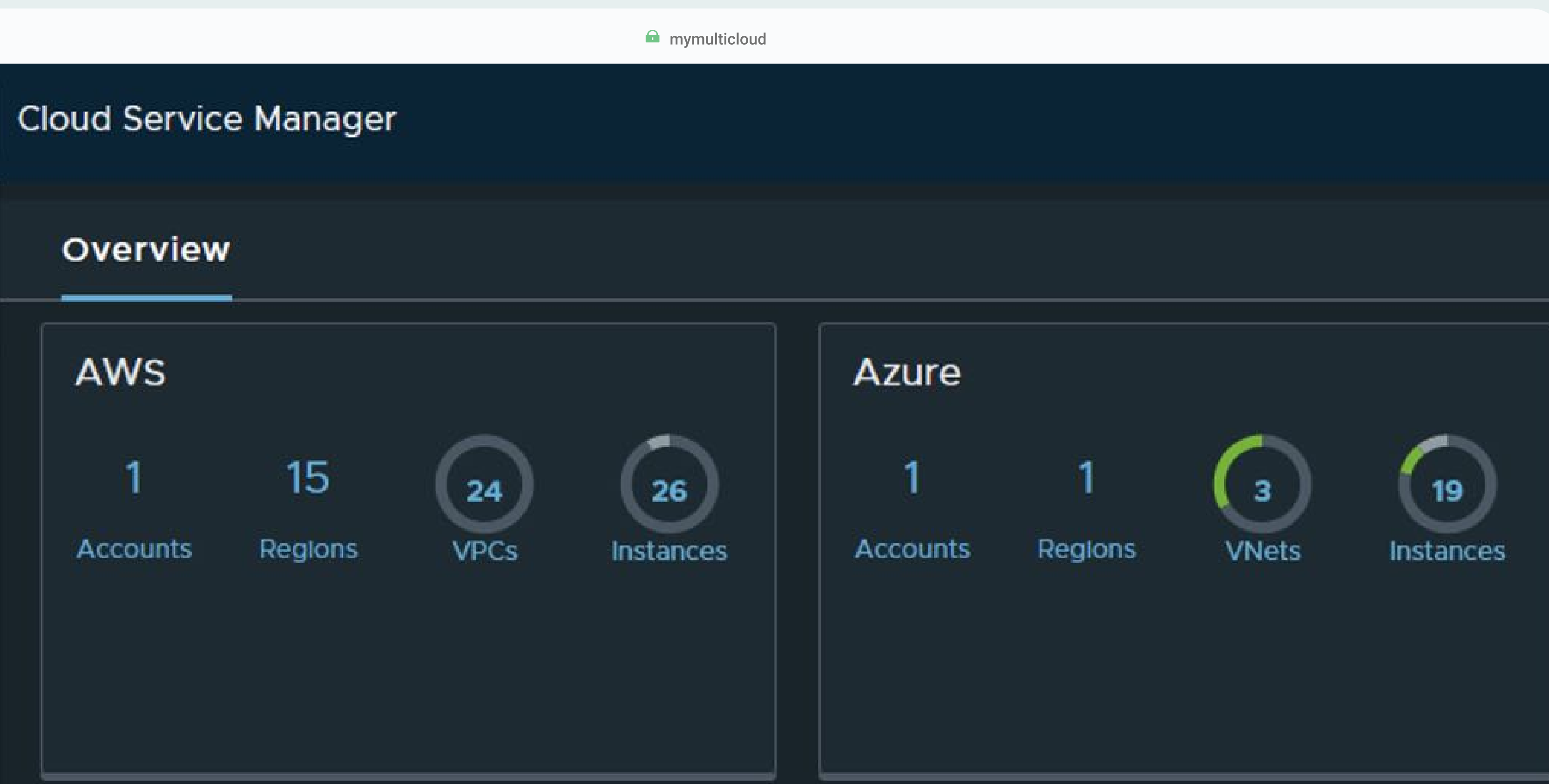
VMware NSX Cloud™



CYBERSECURITY AND
CONTINUITY SOLUTIONS



Summarized View Across Clouds



- Single-pane-of-glass
- Global Inventory view
- Status for every VM
- Government clouds!



VMware NSX Cloud™



Detailed View of Public Cloud Workloads

Granular status for VNets/VPCs · Rich search · Pick & choose workloads

vm Cloud Service Manager

>>

Accounts

Regions

VNets

Instances

Account Azure > Region All Regions

demo1-nsx-mgmt-vnet

SELF-MANAGED

IDc99ae59e-9088--

Region IDwestus

CIDR192.168.0.0/16

NSX ManagedBy Gateway

Manage with NSX ToolsOn

Quarantine StateOff

Horizon VDI2

16Instances

Deployed Gateways

ACTIONS

HCS-VNet1

No Gateways

ID255e06d8-38b2-

Region IDwestus

CIDR172.17.0.0/16

NSX ManagedNo

2Instances

ACTIONS

Transit_VNet1

No Gateways

ID042b3ee6-0284-

Region IDwestus

CIDR10.100.0.0/16

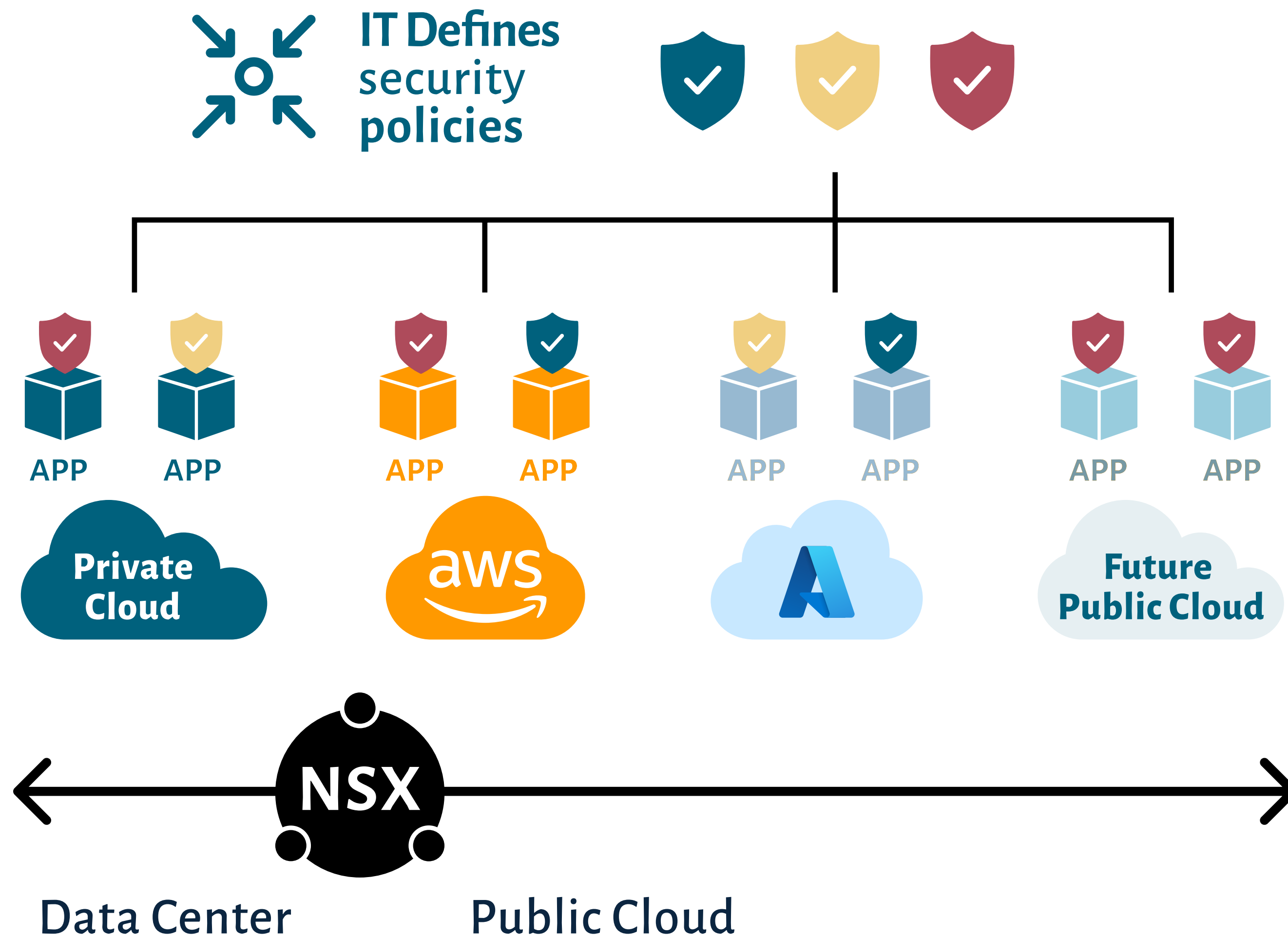
NSX ManagedNo

1Instances

ACTIONS



Security/ μ -Segmentation Across Clouds

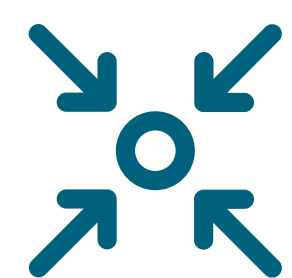


- Single Security Policy
- L4 & μ -segmentation
- NSX or Native Enforced

VMware NSX Cloud™



L7 Security for Public Cloud



IT Defines
security
policies



APP



APP



APP



APP



APP



APP



APP



APP



VM

VM

VM

Compute VPC



Amazon RDS



Amazon ELB



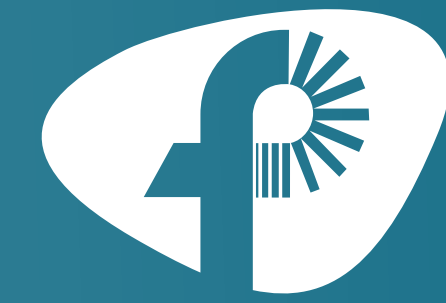
Amazon S3

Native Cloud Endpoints

- AppID & URL filtering
- URL endpoing security
- More L7 features ahead

VMware NSX Cloud™

vmware®



performance

Thank you
and stay safe



CYBERSECURITY AND
CONTINUITY SOLUTIONS