



AI-native Secure Infrastructures

FABRIZIO GERGELY

Responsabile Architetture ed Innovazione in Italia Cisco Systems



Al is changing everything...

Our structural advantage

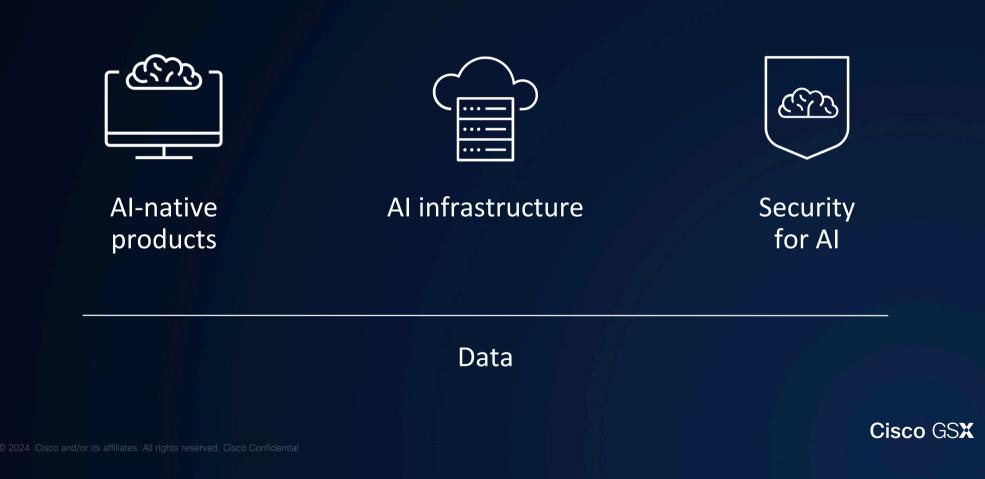
Platform

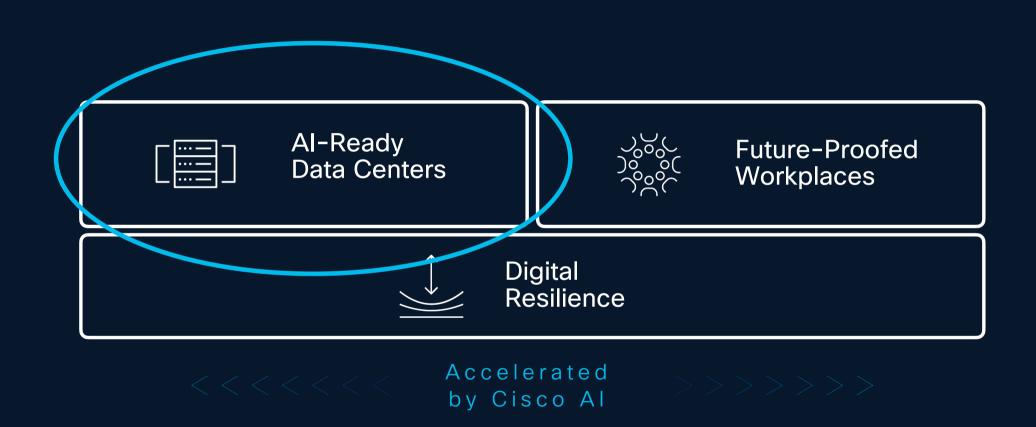
AI

Silicon

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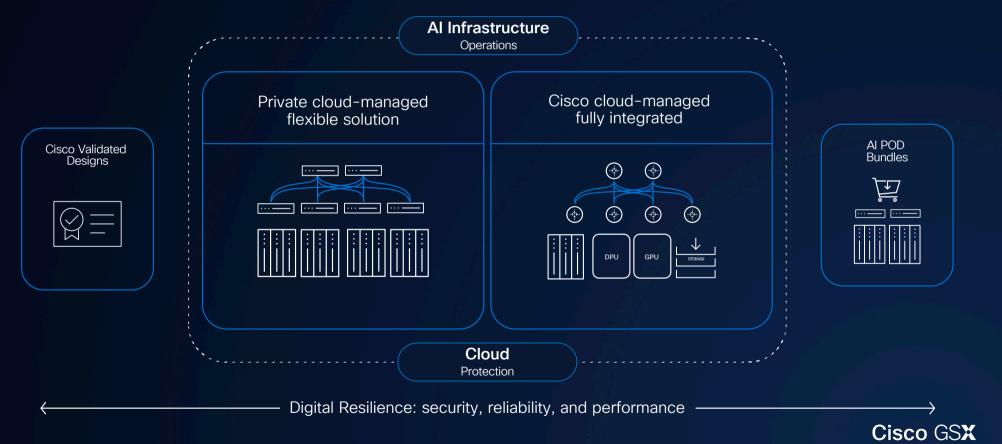
Al is a growth driver and differentiator







Al-Ready Data Center





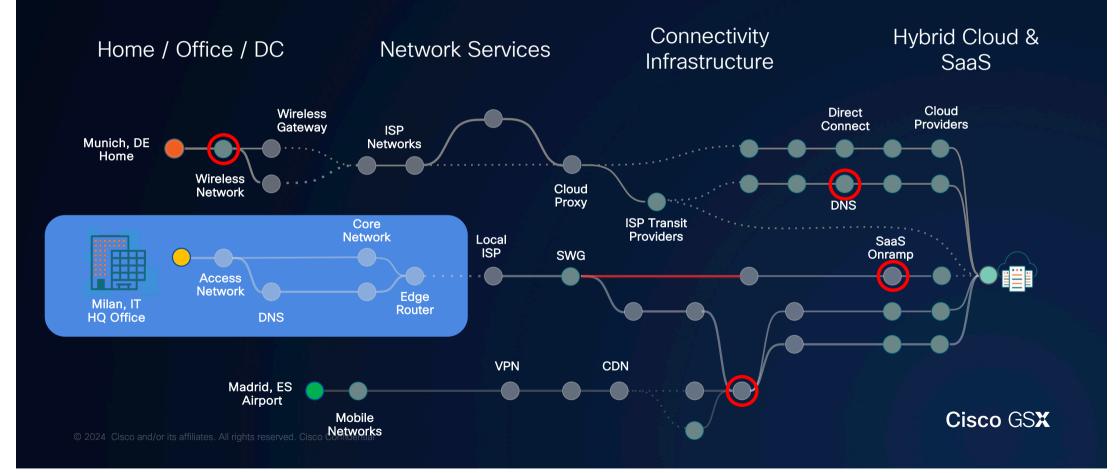
Great data centers require great security

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How infrastructures look like....

ThousandEyes End to End Visibility



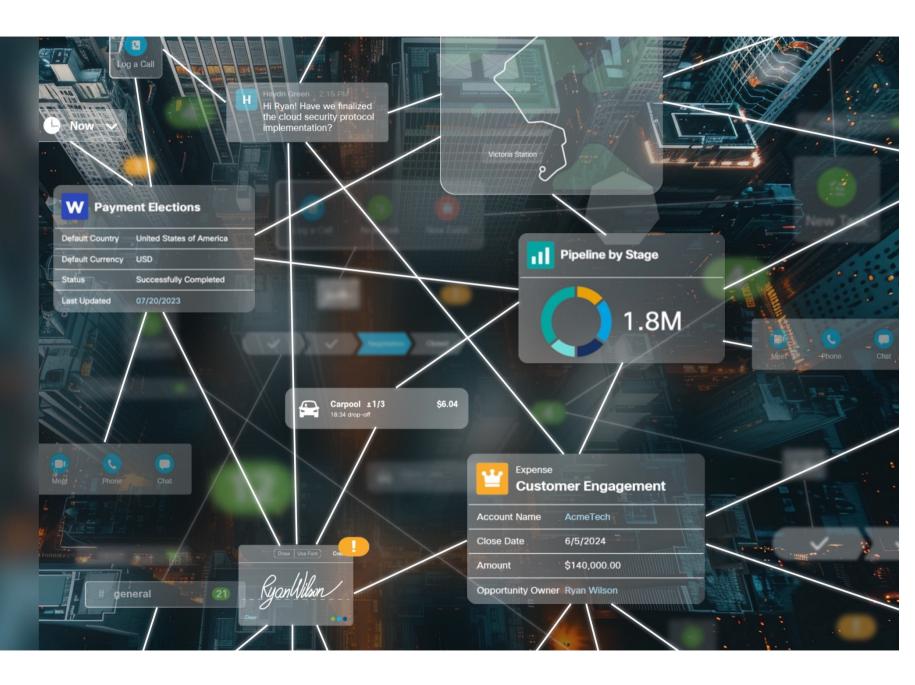
Assume the attacker is already in

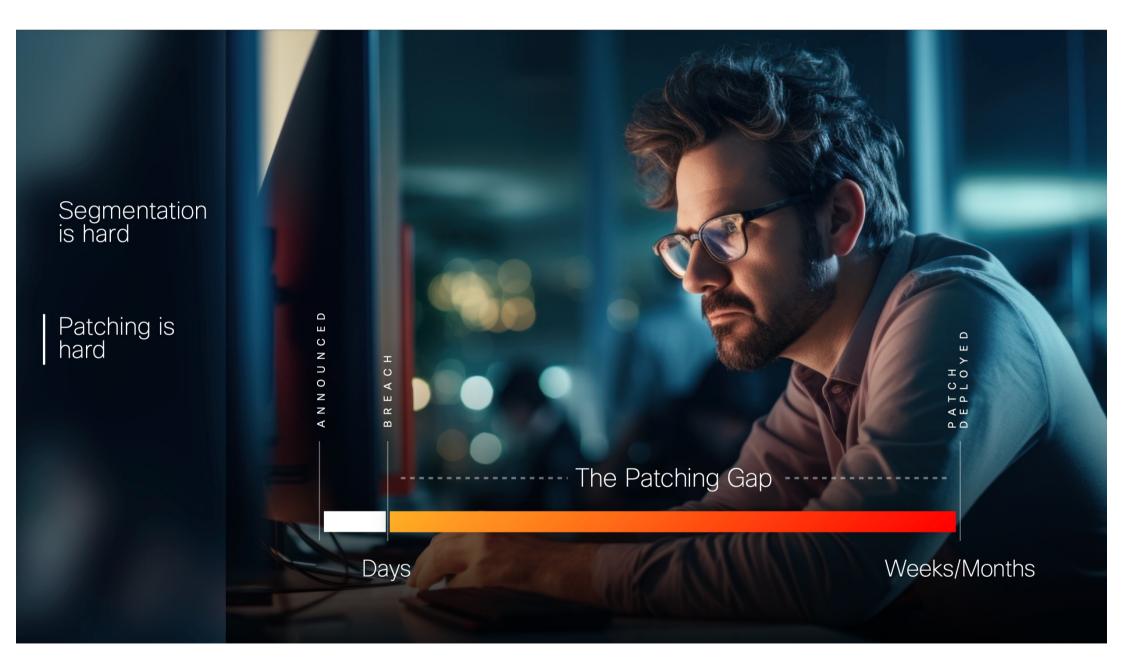
Stopping lateral movement is the key

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Segmentation is hard





Segmentation is hard

Patching is hard

Upgrading is hard



Protecting data centers in the Al era requires a **reimagined security** architecture

Hypershield is changing the game

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Security infused into the fabric of the network

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Enforce locally Manage globally



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Al-powered

Cloud Native

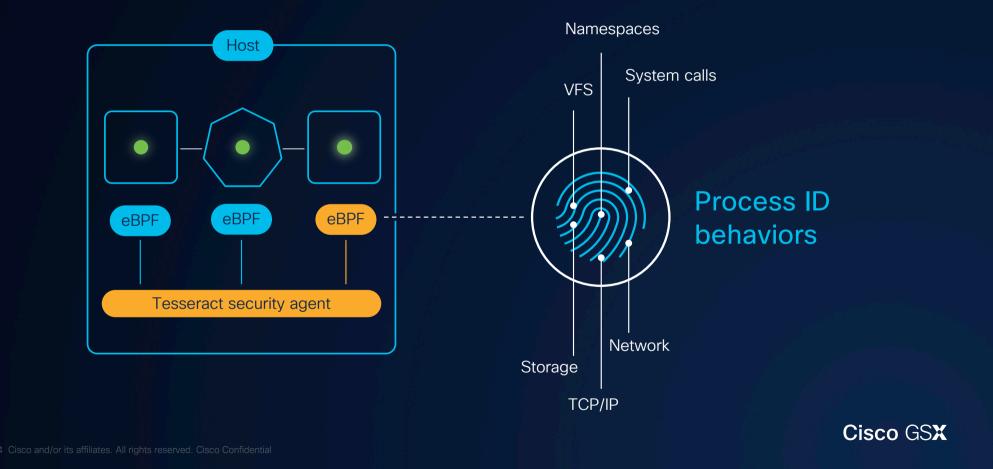
Highly distributed

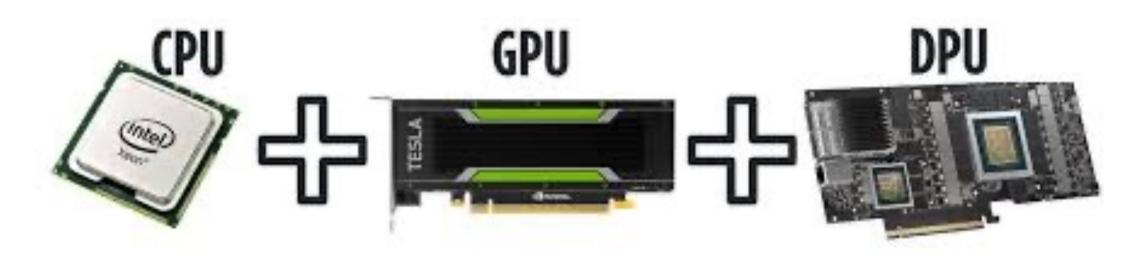




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Deep visibility and enforcement in the workload

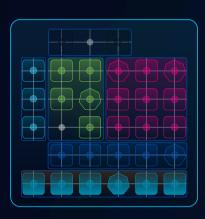




CPU vs. GPU vs. DPU

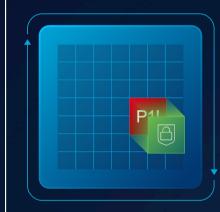
CPU	GPU	DPU
Several cores	Many cores	Dozens of cores
Low latency	High throughput	Higher degree of versatility
Ideal for serial processing	Ideal for parallel processing	Ideal for big data processing
Handles a handful of operations at once	Handles thousands of operations at once	Handles thousands of operations at scale

Cisco Hypershield use cases



Autonomous segmentation

- Deep understanding of app behavior
- Comprehensive inputs for policy creation
- Constantly adapting to changing apps



Distributed exploit protection

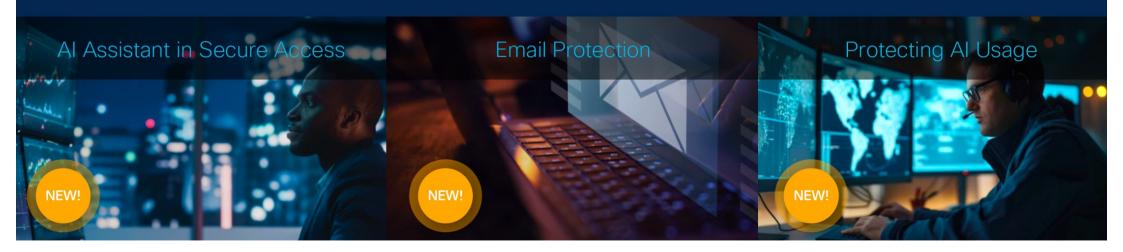
- Mitigate known and unknown vulnerabilities
- Surgical mitigating controls
- Protection within minutes, while app keeps running

Dual dataplane: Al that earns your trust





Making AI pervasive across the Cisco Security Cloud



Al-ready Secure Data Centers to build a Digital Resilient organisation

THANK YOU !

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