



# RED HAT ENTERPRISE LINUX CAN DO THAT?

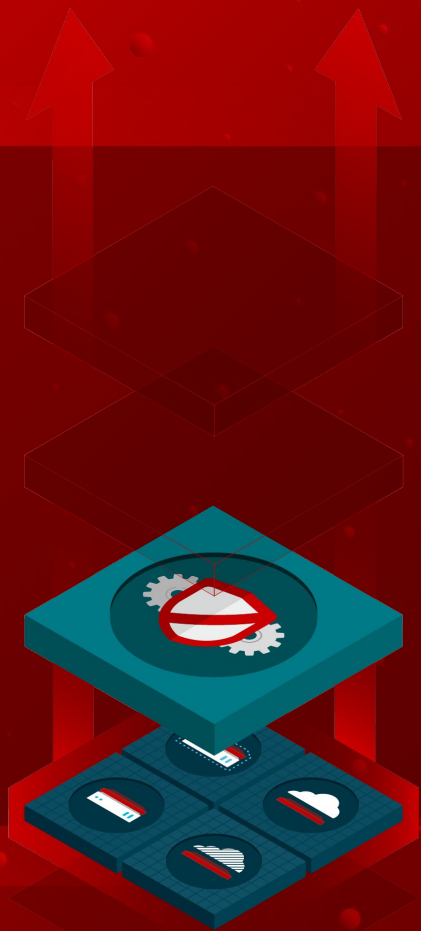
PLATFORM FOR TRADITIONAL AND NEXT  
GENERATION WORKLOADS

Adrian Keward

# RED HAT ENTERPRISE LINUX



ANY APP,  
ON ANY FOOTPRINT,  
ANYWHERE.



# CONTROL



Security and compliance



Platform manageability



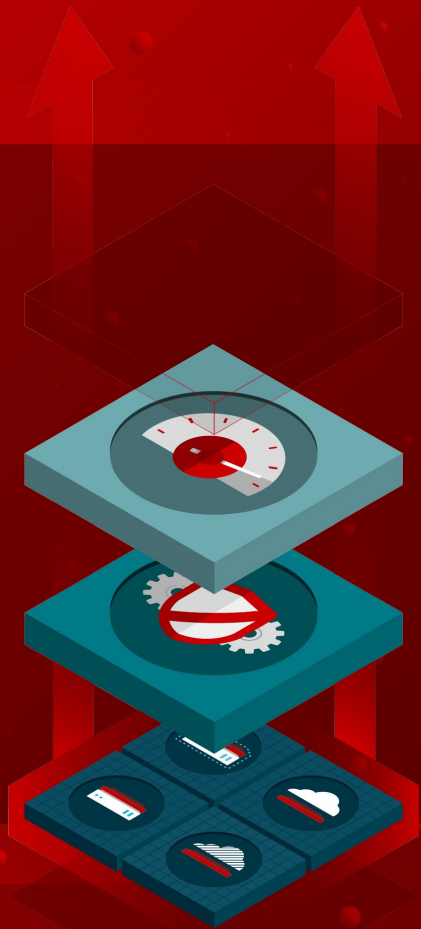
Security  
automation



Native  
controls



Management  
at scale



# CONFIDENCE



Stability and reliability



Performance and efficiency



High  
availability



10+ year  
life cycle



Benchmark-breaking  
performance




# FREEDOM

 Application experience

 Multi-platform support

 Ecosystem

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 Cloud/hardware independent

 Thousands of certified solutions

 Containers and development tools



# TRADITIONAL WORKLOADS

Most enterprise software companies have versions of their software for Red Hat® Enterprise Linux®

Application delivery

Backup & recovery

Business intelligence

Business process management

Capacity management

Collaboration/groupware/messaging

Content management/authoring

Customer relationship management

Database & data management

Dev tools

Enterprise resource planning

Management

Migration

Monitoring

Network management

Networking

Performance & availability

Policy enforcement

Scheduling

Search

Security

Storage

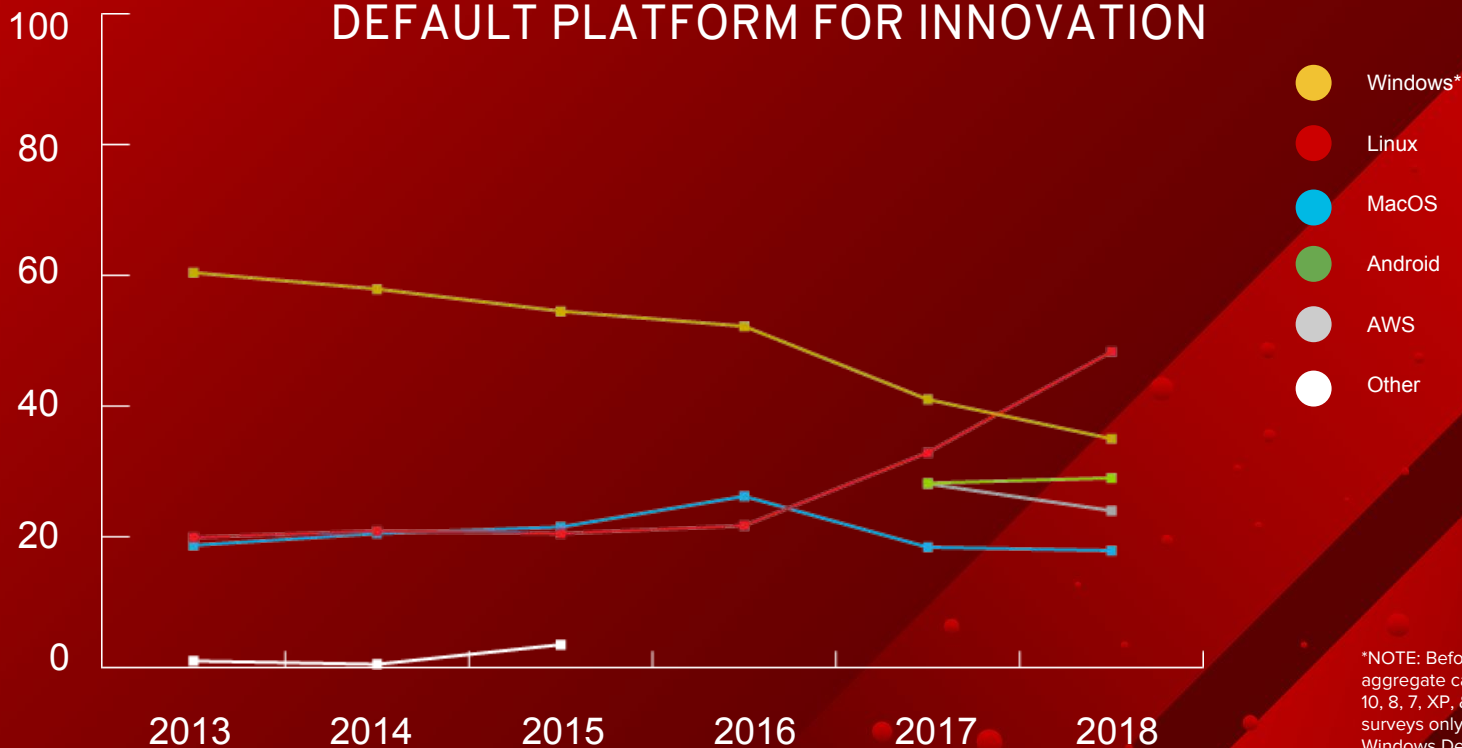
VNF

Virtualization

# NEXT GENERATION INFRASTRUCTURE

# LINUX IS THE MOST-USED PLATFORM

## DEFAULT PLATFORM FOR INNOVATION



\*NOTE: Before 2017, "Windows" is an aggregate category that includes Windows 10, 8, 7, XP, & Vista responses. 2017 & 2018 surveys only offered the single option: Windows Desktop or Server.

Sources: Most popular technology platforms, Stack Overflow, [Developer Survey Results 2018](#) & [Developer Survey Results 2017](#).  
Most popular desktop OS, Stack Overflow, [Developer Survey Results 2013-2016](#).

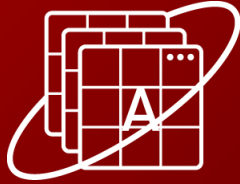


# THE OS STILL MATTERS

LINUX IS THE FOUNDATION FOR MODERN IoT, CONTAINERS, SERVICES, & MORE



Everything-as-a-Service



Modern apps



Containers & microservices



ISV



PHYSICAL

VIRTUAL

PRIVATE CLOUD

PUBLIC CLOUD

RED HAT ENTERPRISE LINUX

# NEXT GENERATION WORKLOADS



**DATA  
INSIGHTS**



**ARTIFICIAL  
INTELLIGENCE**



**CLOUD-NATIVE  
APPLICATIONS**



**INTERNET  
OF THINGS**

# COMPLEXITY

We used to manage servers, now I have to worry about light bulbs sending info to the internet



# CONTROL WITH PLATFORM MANAGEABILITY

Red Hat® Enterprise Linux®



**42%**

time savings  
for IT staff



**74%**

less unplanned downtime  
compared to non-paid  
Linux infrastructure

## SPEED

image building, deployment,  
and patch management.

## AUTOMATE

Deployment, upgrades and  
management of your  
infrastructure

## SCALE

With multi-tenant overlay  
tunneling and multi-homed  
SCTP

## CONTROL

costs associated with IT  
infrastructure changes.

## RELAX

With simple management of  
infrastructure and networking  
services

## ENABLE

Efficient cloud multi-tenancy

Focus on **EASE OF MANAGEMENT AT SCALE**

\* First distribution with Linux Containers Framework Support to be Common Criteria-certified, NIST-certified scanner includes National Checklist content for PCI-DSS, DISA STIG, etc.

# CONTROL WITH SECURITY AND COMPLIANCE

Red Hat® Enterprise Linux®



Common Criteria & FIPS 140-2\*



## **AUTOMATE**

regulatory compliance  
and security configuration  
remediation.

## **GAIN**

peace of mind with the  
Red Hat open source  
secure supply chain and SSO.

## **RECEIVE**

continuous vulnerability  
security updates.

## **ENABLE**

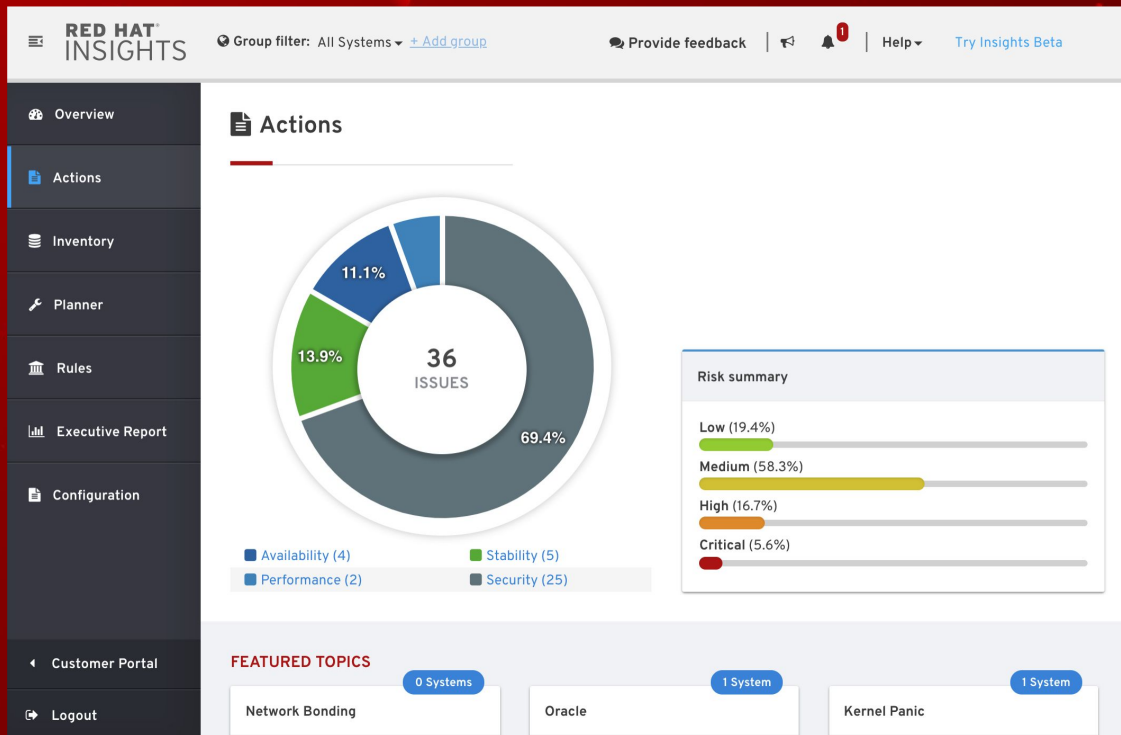
Hybrid cloud deployments,  
working in a heterogeneous  
environment



Focus on **FORTIFYING CUSTOMER DEPLOYMENTS**

# RED HAT INSIGHTS

Proactively identify threats to security, performance, and stability



# WHY RED HAT INSIGHTS?

Identify, prioritize, and resolve issues before business operations are affected.



## **ACTIONABLE INTELLIGENCE POWERED BY RED HAT**

Confidently scale complex environments with no added infrastructure cost.



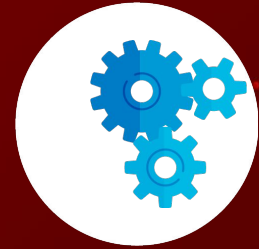
## **CONTINUOUS VULNERABILITY ALERTS**

Maximize uptime and avoid fire-fighting so businesses can focus on strategic initiatives.



## **INCREASED VISIBILITY TO SECURITY RISKS**

Get ahead of security risks and fix them before businesses are impacted.



## **AUTOMATED REMEDiation**

Minimize human error, do more with less, and fix things faster.

# BIG DATA

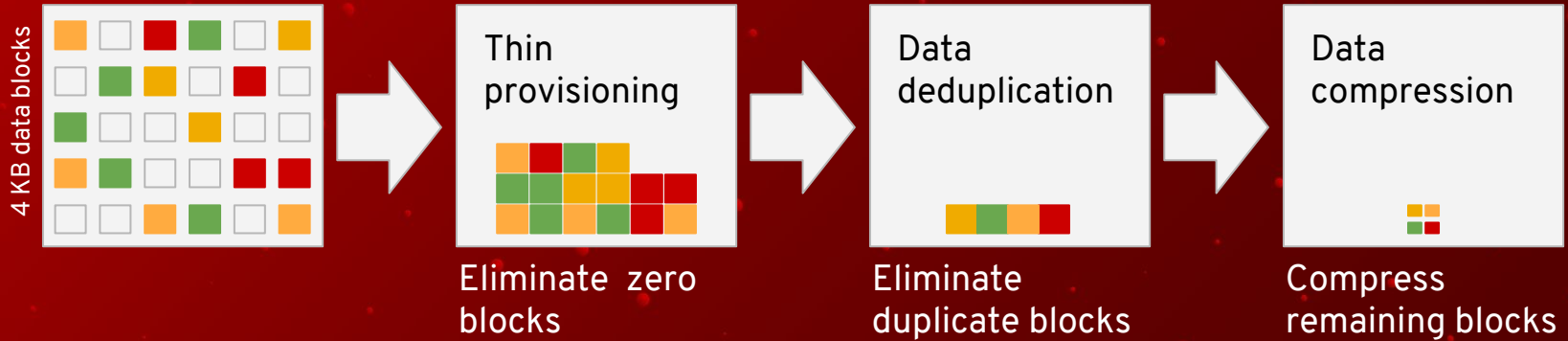


Extremely large data sets that may be analysed computationally to reveal patterns, trends, and associations, especially relating to human behaviour and interactions.



# OPTIMIZED FOR BIG DATA

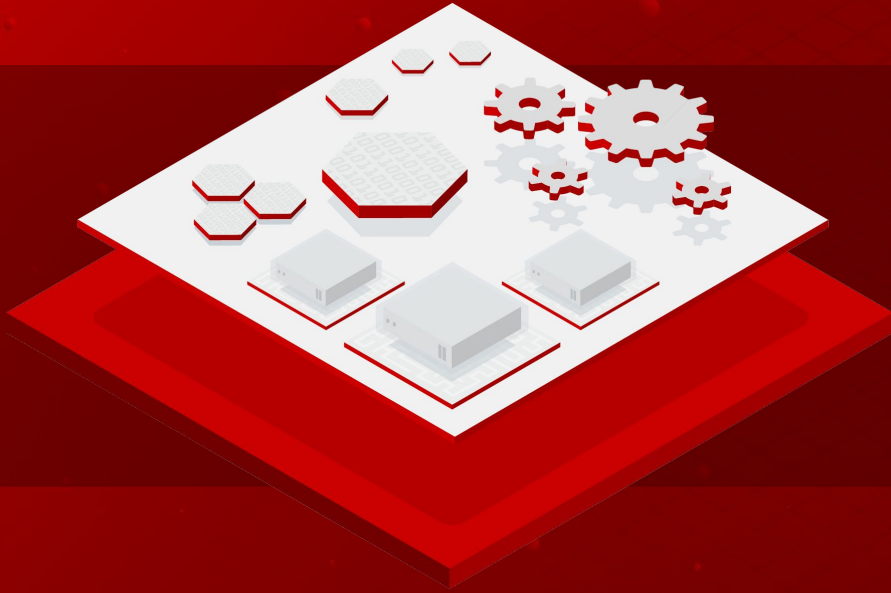
## VDO data reduction processing



# INTERNET OF THINGS



# SOFTWARE-DEFINED NETWORKING



Network namespaces

Bridging

Firewalling

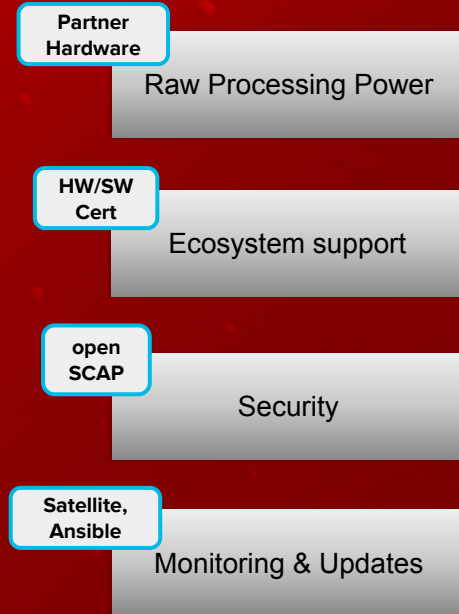
Virtual private networking

VLAN capabilities

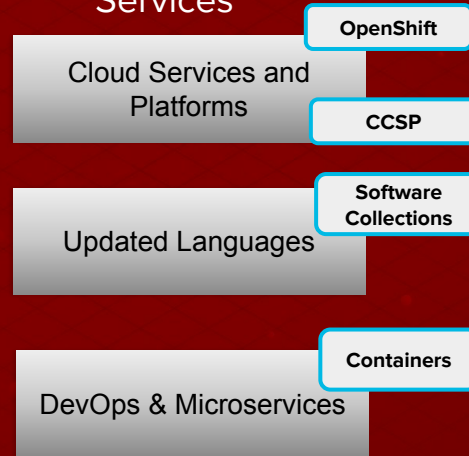
# CLOUD NATIVE APPLICATIONS

Centralized, scale-up IT with cloud-based scale-out consumer-facing services

## Centralized Data Processing



## Modern Web Services



## Deployment Footprints



# CONTAINERIZATION



Kernel control groups

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SELinux

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Kernel namespaces

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CRI-O

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Kubernetes

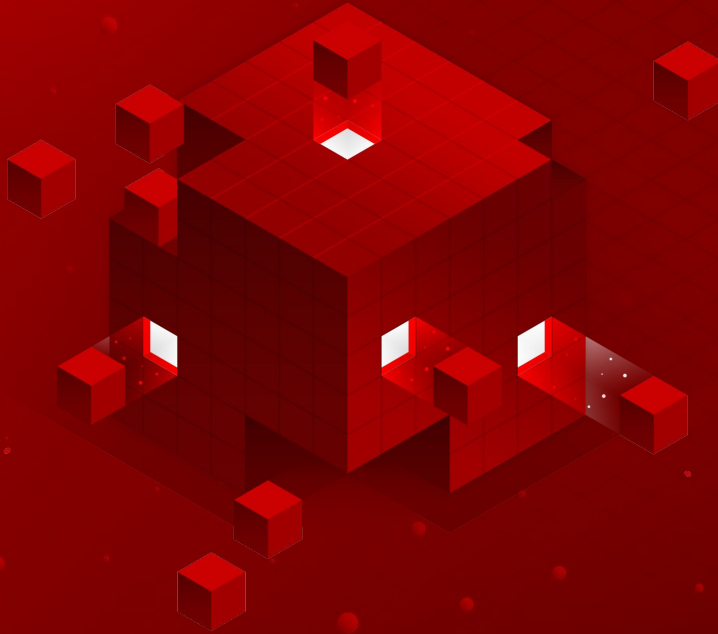
# THE CONTAINER HEALTH INDEX

The screenshot shows the Red Hat Container Catalog interface. At the top, there are navigation links for SUBSCRIPTIONS, DOWNLOADS, and SUPPORT CASES. Below that is the Red Hat logo and 'CUSTOMER PORTAL'. The main navigation includes Products & Services, Tools, Security, and Community. The 'Red Hat Container Catalog' header features a search bar and a 'SEARCH' button. The main content area is titled 'Enterprise-ready Containers' and describes it as 'Your trusted source for secure, certified, and up-to-date container images'. There are two tabs: 'Recently Updated' (selected) and 'Recently Added'. Three container image cards are displayed, each with a title, description, and a table of metrics:

Image Name	Last Update	Health Index	Pulls
RHMMap 4.3 MongoDB 3.2	a day ago	A	281
RHMMap 4.3 Millicore	a day ago	A	186
RHMMap 4.3 MySQL 5.5	a day ago	A	175

- Trusted Container Images with trusted content
- Container Health Index
  - Quickly assess the content and potential CVEs.
- Red Hat security expertise
- All images are signed and cryptographically verifiable.

# ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

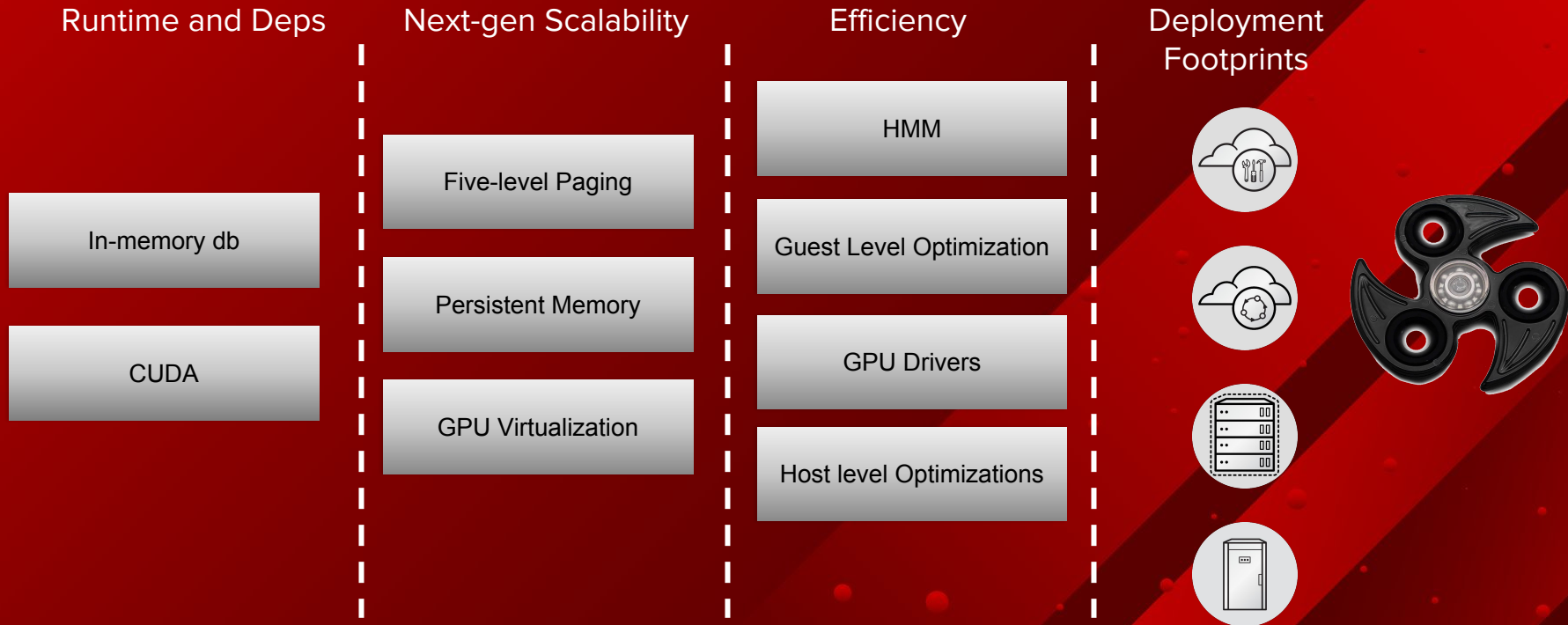


## **ARTIFICIAL INTELLIGENCE**

The ability for software to accept input and make decisions based on that input to complete a goal.

# ARTIFICIAL INTELLIGENCE

Predicting the next fidget spinner with a real-time in-memory application





# THE CONSISTENT FOUNDATION FOR THE ENTERPRISE HYBRID CLOUD



Power the applications that **DRIVE YOUR BUSINESS**

The future is not far away .....





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