Red Hat OpenShift e Infrastrutture IBM per soluzioni Hybrid Cloud

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### Open Hybrid Cloud into your data center

#### Business Transformation and Hybrid Cloud Services
- **IBM Services**
  - Digital Transformation • Application Modernization • Intelligent Workflows
- **System Integrator Partners**

#### Hybrid Cloud Software
- **IBM Software**
  - Automation • Data and AI • Integration • Networking • Security • Industry Capabilities
- **Software and SaaS Partners**

#### Hybrid Cloud Platform
- **Red Hat Hybrid Cloud Platform**
  - Development, Security and Operational Services
  - Red Hat OpenShift
  - Red Hat Enterprise Linux

#### Infrastructure
- **IBM Cloud**
- **Public Clouds**
  - AWS • Azure • Others
- **IBM Systems**
- **Enterprise Infrastructure**
- **Edge**
IBM Systems are a key infrastructure component in this strategy

**IBM Power10**
- Linux on Power10 processor
- Data intensive workloads (e.g. SAP HANA, Big Data, Mission Critical workloads)
- On-prem & IBM Cloud (PowerVS)

**IBM Spectrum Fusion HCI**
- Linux on x86 architecture, Hyper-converged Infrastructure
- Pre-integrated SW stack for RHOCPT containerized workloads

**IBM LinuxONE 4 and IBM z16**
- Linux on steroids on Telum processor, Hardware Accelerators for Crypto, Compression, AI, Confidential Computing and Quantum-Safe
- Mission critical data intensive workloads (e.g. Oracle DB), High Resiliency and Low Energy consumption
- On-prem & IBM Cloud (LinuxONE VS, Hyper Protect)

**Red Hat OpenShift Container Platform and OpenShift Data Foundation**

**Image: IBM Spectrum Fusion HCI and IBM LinuxONE 4 and IBM z16**
IBM Infrastructure and Red Hat enable you to bring the cloud to your Data Centre

Automation

Mobility

Flexibility

Whilst meeting the requirements which keep those workloads On-Premise

Cost

Resilience

Performance
Red Hat OpenShift for Hybrid Multi-Cloud and Multi-Architecture solutions

IBM zSystems / Linux on Z / LinuxONE (On-prem)

Latency

Public Cloud

AWS
Azure
GCP
IBM Cloud

Hyper Protect Virtual Server*

PowerVS
LinuxONE VS

Intel / Power (On-prem)

z/OS
z/OS Connect
z/OSMF
CICS/
IMS/
DB2

z/VM

VMWare ESXi
PowerVM

KVM

Linux

z/CX

Hyper Protect Virtual Server*

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Microservices Application

Which vaccine have you gotten?

- MODERNA
- PFIZER

Processed by container ID: workspacev042xhflb60lln_python-76e74f8476-cp266
Running on architecture: x86_64

Vaccination app
- python

Results app
- node

Worker
- python

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Demo: Hybrid Multi Architecture DevOps

1. Developer (Web Browser)
2. Git Repository
3. CI/CD
4. IBM Public Cloud
5. IBM Power Systems
6. IBM LinuxONE™
7. IBM Z
8. Developer (VSCode IDE)
9. Red Hat CodeReady Workspaces
10. Microservices Application

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**Applications and Data Modernization with Hybrid Cloud**

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<th>IBM’s approach</th>
<th>Build the right foundation</th>
<th>Increase business agility</th>
<th>Accelerate time to value</th>
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<td>let’s you continuously modernize applications and data</td>
<td>Optimize the core Manage the cost of maintaining and running current applications while improving performance</td>
<td>App discover and business alignment Determine which applications to optimize, modernize, or build in increments</td>
<td>App mod patterns and accelerators Accelerate modernization leveraging proven app and data patterns</td>
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<tr>
<td>Hybrid Cloud integration Leverage cloud-native development with a platform that allows you to build once and deploy where it best fits</td>
<td>Enterprise DevOps Agile software development helps developers build, test, deploy and monitor applications with speed, quality, and control</td>
<td>Garage methodology Shift the culture to adapt to new agile ways of working through co-creation and DevOps</td>
<td></td>
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</table>
Infrastructure Modernization to realise your benefits

**Hybrid Multicloud**
Analyze enterprise requirements for hybrid and multicloud solutions
Compare existing environments to IBM and competitive cloud solutions

**Workload Placement**
Consolidate and place workloads on LinuxONE, IBM zSystems and Cloud
Leverage fit for purpose to determine platform requirements for workloads

**IBM LinuxONE**
Assess Linux workload requirements with LinuxONE platform attributes
Find your savings for Linux workloads: up to 70% lower energy and 90% less SW licenses

**IT Best Practices Benchmarking**
Compare actual IT environment with best practices in the IT industry

**Carbon Footprint Reduction**
Determine current infrastructure footprint and implement sustainability improvements, up to 70% with IBM Infrastructure

**Oracle consolidation**
Examine Oracle consolidation on IBM Infrastructure for better TCO
Evaluate on-prem versus cloud options

**Power Systems**
Assess your Linux workload requirements to leverage Linux on Power benefits
Optimize efficiencies for AIX and IBM i

**Tailored Fit Pricing**
Develop cost forecast for Tailored Fit Pricing based on historical data
Evaluate IBM zSystems container usage to optimize costs

**Security**
Evaluate Pervasive Encryption, Confidential Computing, Unified Key Management and other security features to minimize risk

**SAP HANA**
Analyze performance and resiliency benefits of moving traditional SAP landscapes to SAP HANA on Power and Cloud

**Client Storage Assessment**
Analyze current storage and data protection infrastructure and produce a strategic transformation roadmap with a 3-year TCO model

**Chargeback Analysis**
Align chargeback policies to actual IT costs
Increase deployment flexibility
Thank you

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