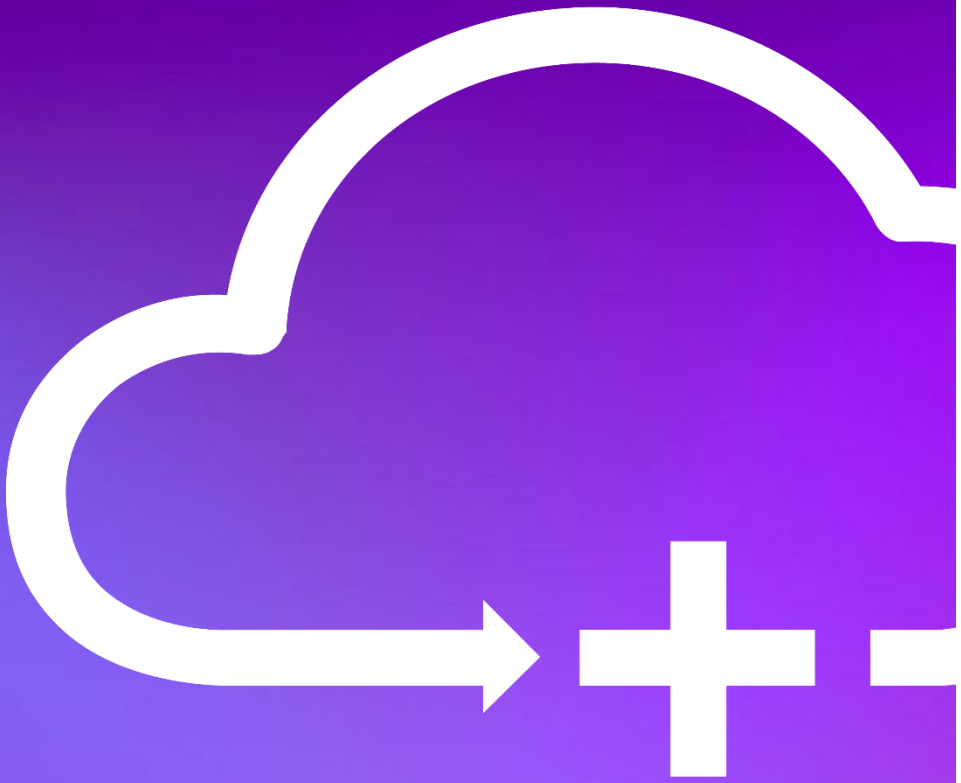
Accenture & Red Hat

Accenture Cloud Innovation Center Rome



accenture

Red Hat

Accenture Cloud Innovation Center

Pushing custom cloud solutions to the max.

Cloud delivers undeniable benefits – agility, rapid innovation and lower IT costs.
The Accenture Cloud Innovation Center harnesses the full potential of Cloud to custom build latest generation solutions for our clients.
We can give our clients access to a catalog of tested real cases to imagine, test and implement leading edge cloud services that can help take your business into tomorrow.
Now.

Emerging Technology

Real Case

Vision

Accenture Cloud Innovation Center Rome

Ecosystem Partners

Clients

Accenture

ACIC Rome brings together Accenture's deep technical know-how and industry expertise to help companies deploy cloud to transform their journey to cloud. At a time when innovation is racing ahead, Accenture is broadening its collaboration with leading cloud solution vendors to have instant access to the level of specialist services that can help meet our clients' specific business objectives. At ACIC Rome, **we bring together** not only the major technology vendors but **the best offerings** from emerging providers in step with market evolutions. Our clients benefit from the very latest real and tested solutions.

About Red Hat

Red Hat is the world's leading provider of enterprise open-source solutions—including Linux, cloud, container, and Kubernetes. We deliver hardened solutions that make it easier for enterprises to work across platforms and environments, from the core datacenter to the network edge. Red Hat delivers hardened, open-source solutions that make it easier for enterprises to work across platforms and environments, from the core datacenter to the network edge. By operating transparently and responsibly, we continue to be a catalyst in open-source communities, helping you build flexible, powerful IT infrastructure solutions.

The Partnership With Red Hat

The use cases built in the Accenture Cloud Innovation Center leveraging Red Hat partnership can help organizations to create business value by implementing solutions that give fast answers, optimized time to delivery with controllable costs using scalable and open architectures.

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02

03

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ACIC Use Case Catalog

Intelligent Edge

Application Modernization

Infrastructure Engineering

Data Engineering & Applied AI/ML

Application Modernization

CMP configuration for service catalog, provisioning, monitoring reports, performance and metering data, policy automation

Enable system administrators, business users and developers to manage in a self service way cloud objects lifecycle

Context and client challenges

- Market context requires **fast answers, optimized time to delivery, controllable costs, scalable architectures for managing high but not predictable requests**. Migration / Transformation to cloud infrastructures either hybrid and Multi Cloud helps customers to achieve their targets

New approach and solution

- Hedvig is an hybrid cloud-native software-defined storage fully integrated with A possible solution is to implement a **Cloud Management Platform** (CMP) in a Multi-cloud architecture with **performance and chargeback reports, service catalogue with complex blueprints, security policies and capacity recommendations, etc**

Client benefits

- Standardization
- Time to Delivery
- Time to Market
- Error Reduction
- Cost Control
- Capacity
- Optimization

Application Modernization

PaaS On Demand: Service Catalog, Order Management, Provisioning workflow for PaaS deployment on Openstack and AWS

Enable system administrators to request and manage in a self service way an Openshift cluster deployed with few clicks through a Cloud Management Platform on different target providers.

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Context and client challenges

- Market context requires **fast answers, optimized time to delivery** for providing dedicated and complex (like a Openshift cluster) environments to the developers or to specific final users leveraging on the self service catalogue of a public provider or leveraging on the adhoc on prem cloud infrastructure

New approach and solution

- A possible solution is to implement a **Cloud Management Platform** (CMP) in a Multi-cloud architecture with **Ansible playbooks thatinteract with AWS Cloudformation template and with Heat Template**

Client benefits

- Standardization
- Time to Delivery
- Time to Market
- Faster Environment provisioning

Application Modernization

Multiple clusters lifecycle management

Customers infrastructure are growing leveraging on hybrid and public cloud scenarios. In this scenario, they needs a solution allowing to manage the setup of Openshift clusters in the edge, enabling automation and security capabilities.

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Context and client challenges

- Modernizing complex applications in order to reach **fast horizontal scalability** and rapid development with **high frequent deployments.**
- Increase **application portability**.

New approach and solution

- Automated provisioning of DEV environments (**Infrastructure as Code paradigm**)
- Containerization of **CI/CD** tools for software repositories, QA, tasks pipelining and software testing
- Continuous Integration and Continuous Delivery scenarios
- Adoption of a complete PaaS solution like **Openshift**

Client benefits

- Standardization
- Time to Delivery
- Time to Market
- Error Reduction
- Cost Control
- Capacity
- Optimization

Application Modernization

Use Cloudforms, Ansible, Gluster for managing application in Business continuity

Enable System administrators and developers to define and manage a multi-cloud business continuity architecture (intra-datacenter) for optimize Application Resiliency with DevOps techniques

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Context and client challenges

- **Zero application downtime** in disaster scenarios
- **Application resiliency and fault tolerance** from the infrastructure perspective.

New approach and solution

- Bring together **orchestration and automation** engine with **DevOps tools and technique** to enable users to manage complex application deployment in a multi target provider scenario assuring also workload synchronization using a **software defined storage.**

Client benefits

- Standardization
- Time to Delivery
- Application Fault
- Tolerance
- Error Reduction
- Portability
- Resiliency

Application Modernization

OpenShift Container Storage for elastic and persistent volumes

Scope of the use case is to show benefits rising from the use of OCS (OpenShift Container Storage) in a OpenShift architecture on IaaS RHOSP(v.13)

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Context and client challenges

- Modern application needs to be **scalable** and **portable** between different providers through the different layers (network, storage, compute, etc..)
- Application should be fault tolerant and provide a robust **application resiliency** starting from data

New approach and solution

- Evolve and transform applications using **microservice based architecture** introducing **containers, software defined storage based and automation**
- Give operations tools able to measure and control the application's **fault tolerance** even in a **distributed deployment** scenario

Client benefits

- Standardization
- Time to Delivery
- Fault Tolerance
- Portability
- Operations Efficiency

Application Modernization

Migrate monolithic applications in a Microservice Based Architecture

Accelerate microservices architecture adoption in order to start cloud native application implementation and management for reducing cost and optimize complex architecture management

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Context and client challenges

- Complex and **monolithic applications** require to be simplified, evolved, updated wit new frameworks that support s**tandards, scalability, portability and efficiency**
- More **resiliency and interoperability**

New approach and solution

- Evolve and transform applications using **microservice based architecture** introducing **containers, API gateways, software defined storage and automation** for CI/ CD processes and for monitoring the application
- Give operations tools able to measure and control the application's **fault tolerance** even if in a **distributed deployment** scenario

Client benefits

- Standardization
- Time to Delivery
- Time to Market
- Error Reduction
- Portability
- Operations Efficiency
- Elasticity

Application Modernization

Cloud Native and Service Meshing

Reduce errors discovery, maximize the fault tolerance and the resiliency of cloud native application, identify possible bottleneck and optimization to be adopted for complex applications

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Context and client challenges

- **Cloud Native Applications** give benefits when they will be deployed in a distributed context and the complexity of the **microservices based architecture** needs to be managed using devops and intelligent tools.
  In particular **Application Resiliency** should be controlled and tested not only by developers but also by ops team using standard tools.

New approach and solution

- Evolve the processes and the toolset for simplify and automate the check of a robustness of a distributed microservice architecture providing **operational control and performance insights for a network of containers** in order to provide **automatic discovery of service communication, load balancing, failure recovery, metrics and monitoring** using Istio and Openshift 4.1.

Client benefits

- Application
- Resiliency Check
- Fault Tolerance Monitor
- Error Reduction
- Portability
- Operations Efficiency

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Accenture Cloud Innovation Center Rome

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Learn more

Find out about Accenture Cloud Innovation Center of Rome

www.accenture.com/acicrome

About Accenture

Accenture is a leading global professional services company that helps the world's leading businesses, governments and other organizations build their digital core, optimize their operations, accelerate revenue growth and enhance citizen services — creating tangible value at speed and scale. We are a talent- and innovation-led company with approximately 733,000 people serving clients in more than 120 countries. Technology is at the core of change today, and we are one of the world's leaders in helping drive that change, with strong ecosystem relationships. We combine our strength in technology and leadership in cloud, data and AI with unmatched industry experience, functional expertise and global delivery capability. We are uniquely able to deliver tangible outcomes because of our broad range of services, solutions and assets across Strategy & Consulting, Technology, Operations, Industry X and Song. These capabilities, together with our culture of shared success and commitment to creating 360° value, enable us to help our clients reinvent and build trusted, lasting relationships. We measure our success by the 360° value we create for our clients, each other, our shareholders, partners and communities.

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