15 years rCloud

**15 years rCloud: a proven & solid solution**

# Steve Huon
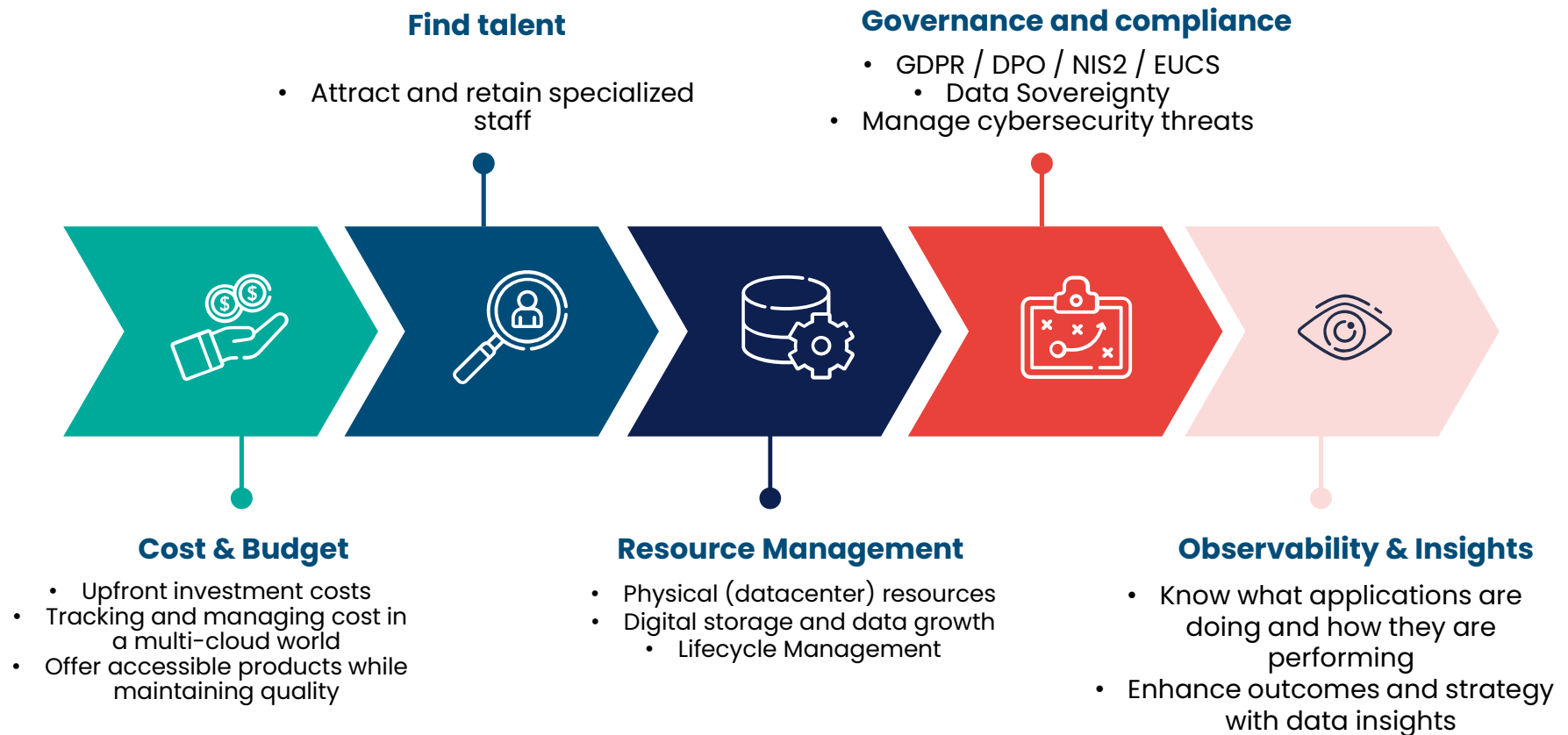
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# IT challenges in the modern world

**Find talent**

- Attract and retain specialized staff

**Governance and compliance**

- GDPR / DPO / NIS2 / EUCS
- Data Sovereignty
- Manage cybersecurity threats

**Cost & Budget**

- Upfront investment costs
- Tracking and managing cost in a multi-cloud world
- Offer accessible products while maintaining quality

**Resource Management**

- Physical (datacenter) resources
- Digital storage and data growth
- Lifecycle Management

**Observability & Insights**

- Know what applications are doing and how they are performing
- Enhance outcomes and strategy with data insights

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# Technology isn't your finish line, *it's the engine that drives strategic victory!*

# What is Cloud?



Cloud Computing is used for
**Deployment Maintenance Scaling**

**IT Pro**

Cloud Computing is used for
**Machine Learning Data Mining**

**Software Developer**

Cloud Computing is used for
**Reducing Costs Outsourcing IT**

**CIO**

# Reality

**Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.**

**Essential characteristics**

- On-demand Self-Service
- Web-accessible
- Resource Pooling
- Rapid elasticity
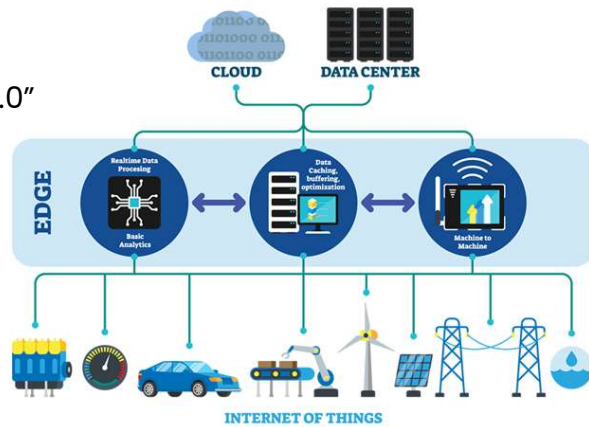- Measured Service

**Deployment Models**

- Edge Cloud
- Private Cloud
- Regional Cloud
- Public Cloud

**Service Models**

- Software as a Service
- Platform as a Service
- Infrastructure as a Service

# Business solutions in a hybrid cloud context

**Edge Cloud (YrCloud)**
"edge computing 2.0"



**Private Cloud (YrCloud)**
"Datacenter 2.0"

**Latency-sensitive workloads**

**Data locality**
Compliance / regulatory

— Premises border —

**Collaboration**
Teams, e-mail,…

**Innovation**
Data Analytics & AI,…

**Archiving and scale**
Medical archive, backup & data protection,…

**Sustainability**
No need to maintain own datacenters

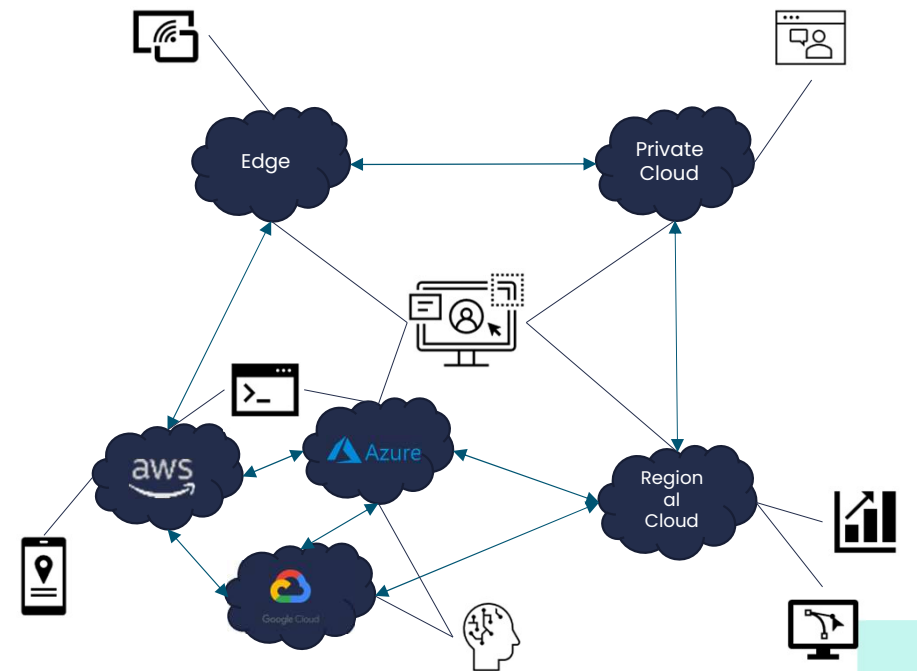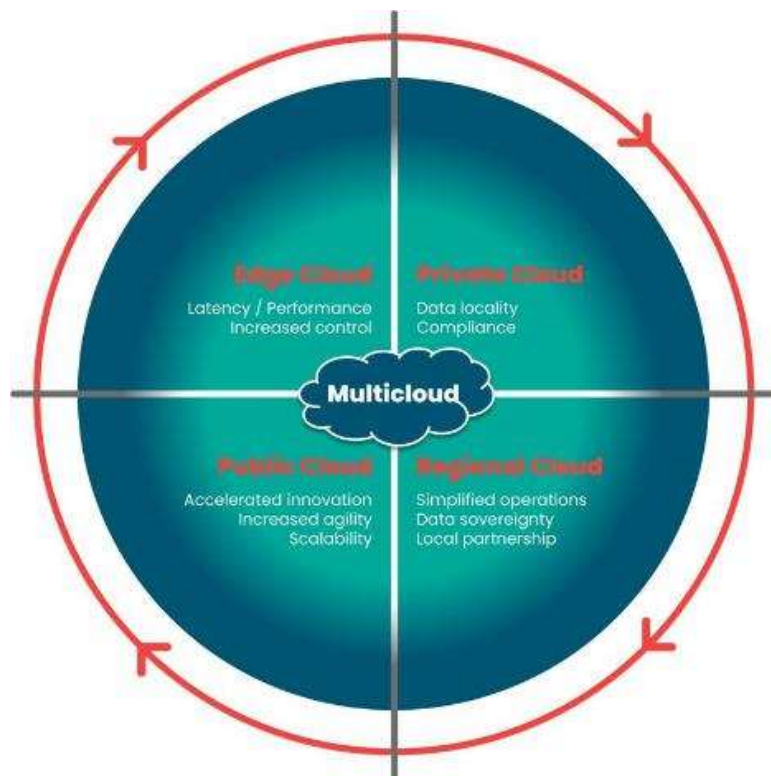**Simplify IT Operations**
Unburden local IT teams

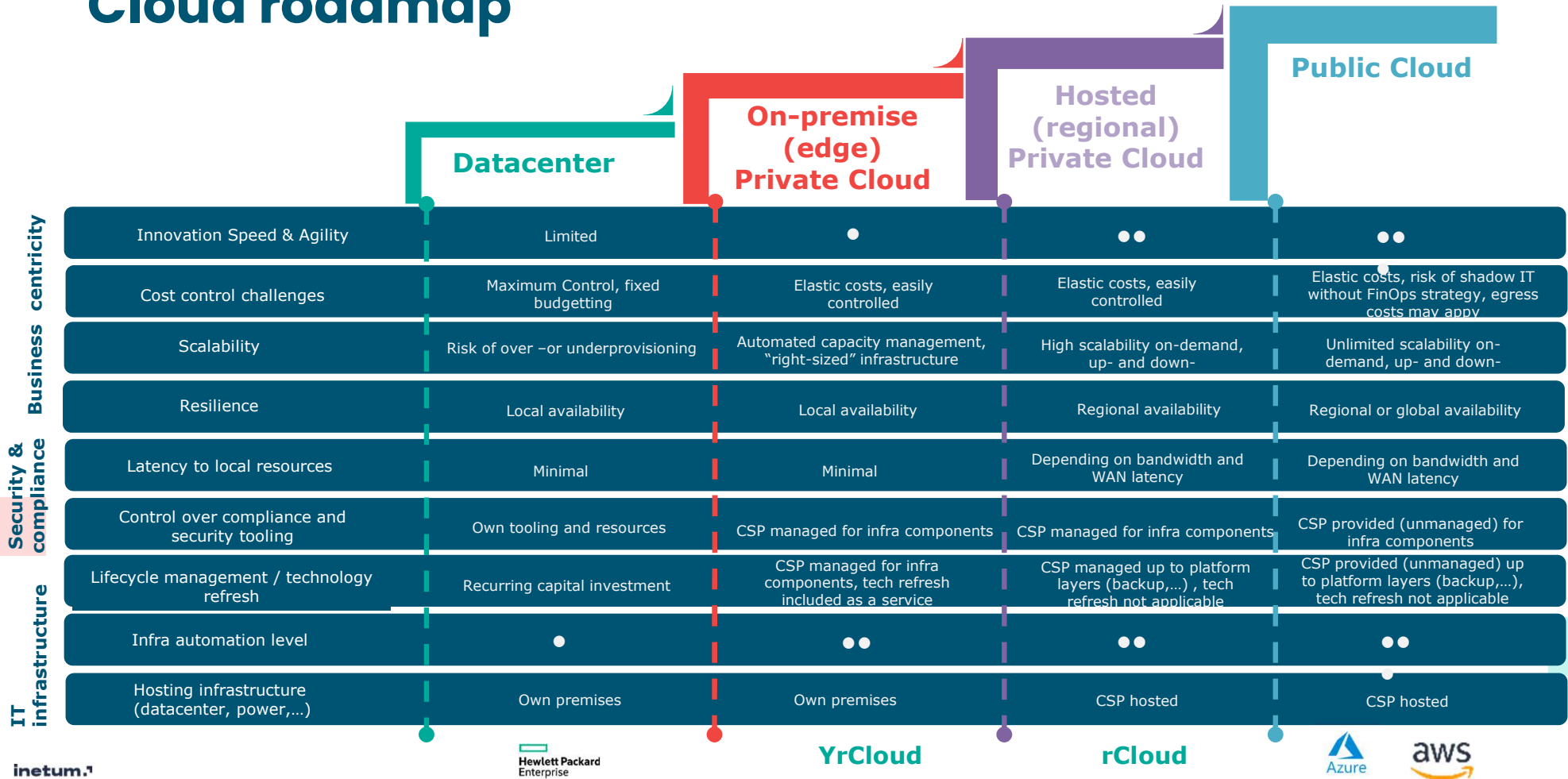**Public Cloud (Microsoft, AWS,…)**

**Regional Cloud (rCloud)**

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# What is hybrid (multi-)cloud?

# The right cloud for the right purpose: Cloud roadmap

| | | Datacenter | On-premise (edge) Private Cloud | Hosted (regional) Private Cloud | Public Cloud |
|---|---|---|---|---|---|
| **Business centricity** | Innovation Speed & Agility | Limited | • | •• | •• |
| | Cost control challenges | Maximum Control, fixed budgetting | Elastic costs, easily controlled | Elastic costs, easily controlled | Elastic costs, risk of shadow IT without FinOps strategy, egress costs may apply |
| | Scalability | Risk of over –or underprovisioning | Automated capacity management, "right-sized" infrastructure | High scalability on-demand, up- and down- | Unlimited scalability on-demand, up- and down- |
| | Resilience | Local availability | Local availability | Regional availability | Regional or global availability |
| **Security & compliance** | Latency to local resources | Minimal | Minimal | Depending on bandwidth and WAN latency | Depending on bandwidth and WAN latency |
| | Control over compliance and security tooling | Own tooling and resources | CSP managed for infra components | CSP managed for infra components | CSP provided (unmanaged) for infra components |
| **IT infrastructure** | Lifecycle management / technology refresh | Recurring capital investment | CSP managed for infra components, tech refresh included as a service | CSP managed up to platform layers (backup,…) , tech refresh not applicable | CSP provided (unmanaged) up to platform layers (backup,…), tech refresh not applicable |
| | Infra automation level | • | •• | •• | •• |
| | Hosting infrastructure (datacenter, power,…) | Own premises | Own premises | CSP hosted | CSP hosted |

Hewlett Packard Enterprise — YrCloud — rCloud — Azure — aws

rCloud

**OVERVIEW**

## • INFRASTRUCTURE 'AS-A-SERVICE'

- Logically shielded private cloud in a shared infrastructure
  - From firewall to back-up
  - Dedicated is also possible

- Cloud Management Platform
  - Manage your own machines

- In a Managed Services context
  - Infrastructure management of the platform is included
    - Lifecycle management
    - Patching
    - Updates
    - Upgrades

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# • HIGH-QUALITY HOSTING PLATFORM

- Pay-per-use services
    - Always the perfect size — scaling with your business
    - Monthly invoicing after consumption

- Service catalog
    - based on building blocks
    - Tierings and Flavours

- 2 equal datacenters
    - in active-active setup
    - Local (1 DC) or Geo (2DC's) redundant

**OVERVIEW**

- ## HOUSING

  - Digital Realty (Zaventem) & LCL (Erembodegem)

    - Cabinets, Cages or Private rooms

    - Physical Security

    - Power

    - Climate

    - Fire and Water protection

    - +100 connectivity providers

**DIGITAL REALTY™**

**eurofiber** 25 years

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OVERVIEW

# • SOVEREIGN DATA CENTER

- Data Residency Guaranteed
  - Your data remains 100% within national borders

- Local Operations
  - Managed entirely by trusted, certified personnel based in BE + PT.

- Regulatory Compliance
  - Aligned with data protection and industry regulations

- Autonomous Infrastructure
  - Built without dependencies – 100% ours, 0% outside control

- Security by Design
  - Built with sovereign cybersecurity standards

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**OVERVIEW**

- **ONLY THE BEST IS GOOD ENOUGH**

  - Enterprise-Grade Infrastructure

    - Enterprise suppliers

    - Best-in-class hardware and software

    - Scalable, secure, and reliable

    - Designed for future growth

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**OVERVIEW**

## • SERVICE CATALOG

- • Standardized building blocks
  - - Virtual Servers
  - - Storage
  - - Backup
  - - Firewall
  - - Internet Connectivity
  - - Licensing

- • Different tiers and flavours
  - - Geo-redundancy (2 datacenters)
  - - Local-redundancy (1 datacenter)
  - - Platinum
  - - Silver
  - - Gold

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# TOPOLOGY
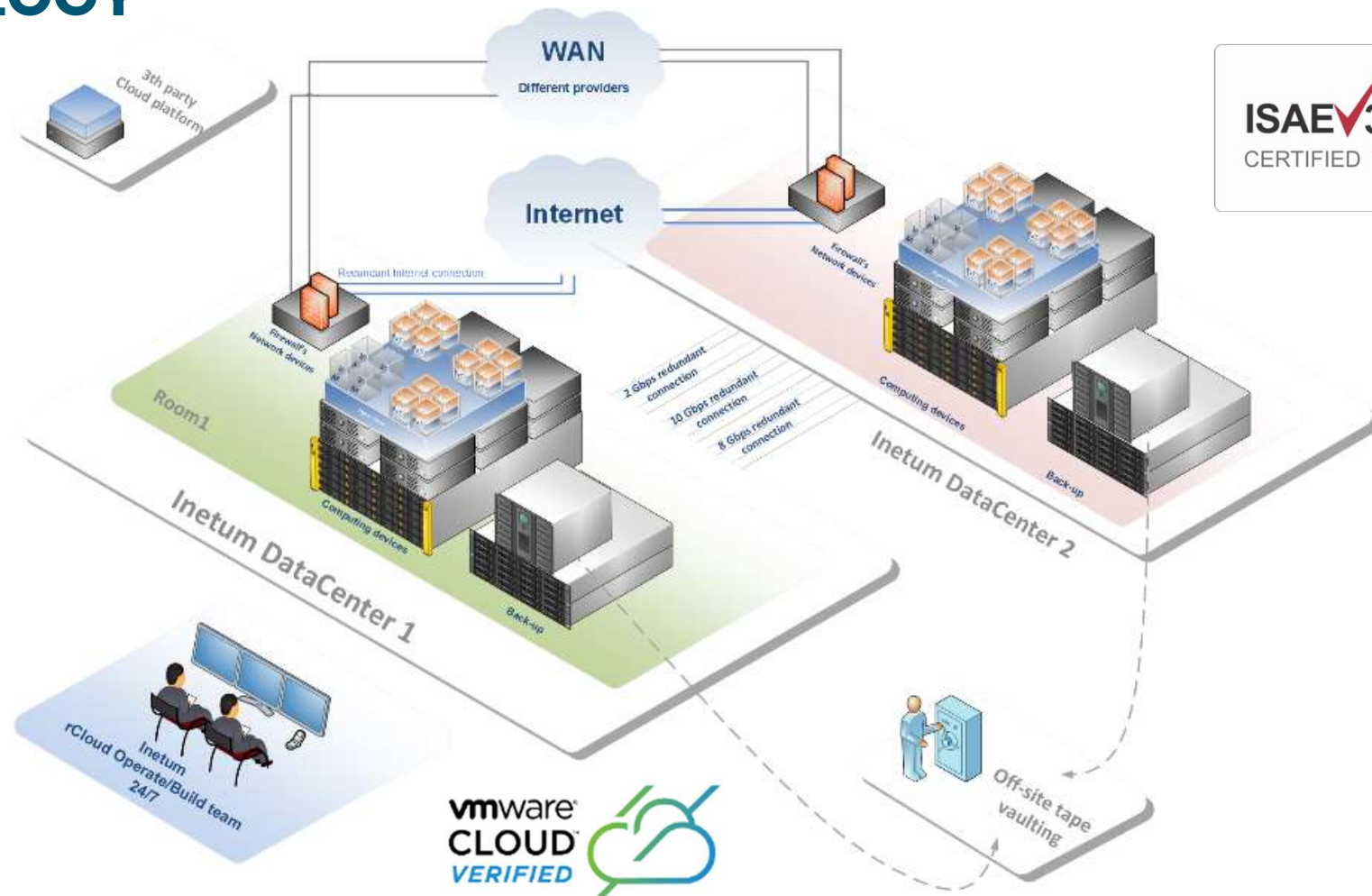
# INNOVATION

- RED HAT Openshift containerplatform

- S3 Object Storage

- Encrypted Storage (Hypervisor)

- New compute models
  - Private Cloud
  - Virtual Datacenter
  - On demand VM's

- New backup flavour
  - Palladium Backup (1Y retention on disk)

YrCloud

**OVERVIEW**

# • CHARACTERISTICS

- Based on the rCloud ecosystem

- Extension of our proven rCloud platform

- On premise private cloud

- Fully or self-managed

- Capacity management and lifecycle management

- Always up to date

- High flexibility

- Flexible costs: based on consumption

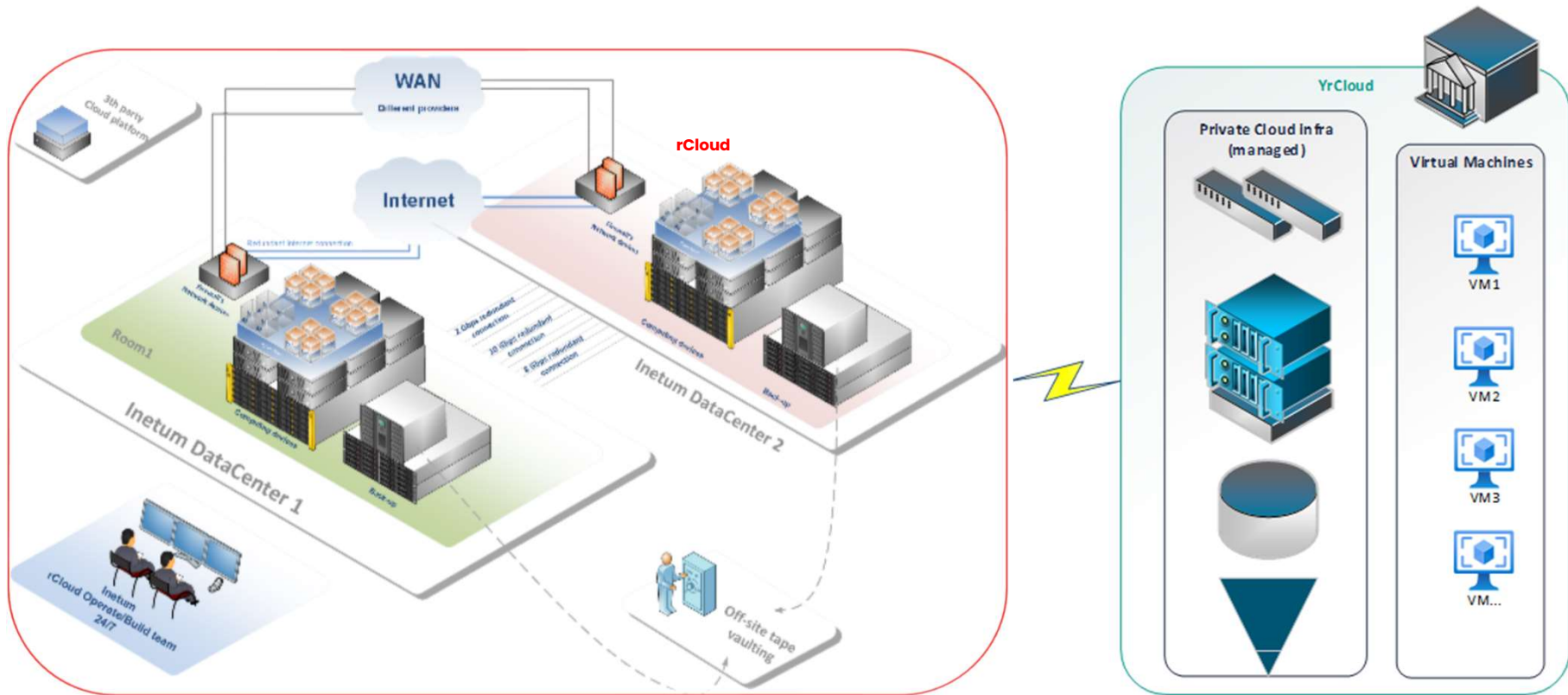- Scalable right-sized infrastructure, every time

**OVERVIEW**

# • VALUE

- All the benefits of on-premises infrastructure

- Low latency

- Local data storage and processing

- Local collaboration between systems

- Time savings for your in-house IT team

- Stronger focus on innovation

- Less need for hard-to-find infrastructure staff.

# TOPOLOGY

# Next steps

# rCloud visit

Save the date: June, 11th 2025

# Check our offerings online or in our Green Wiki Corner

# Thank you