I nuovi miniDC della rete GARR-T

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GARR

Agenda

- La nuova generazione di miniDC
- Piano di installazione
- Gestione operativa e automazione
- Sviluppi futuri

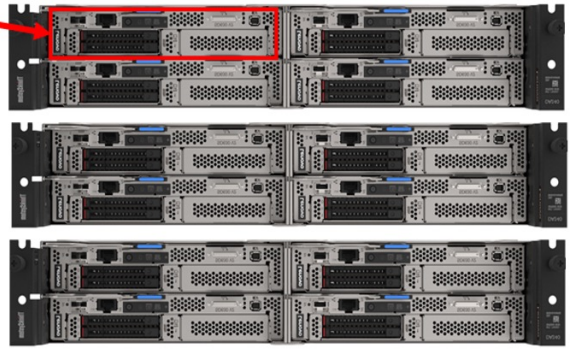
La scelta dei miniDC

- Hardware in end of life
- Performance limitate della vecchia piattaforma
- Obsolescenza strumenti management
- Costi di manutenzione elevati

Mini-Data Center (mDC)

*Il **mini-Data Center (mDC)** costituisce l'unità elementare di computazione e storage per la nuova generazione della rete **GARR-T***

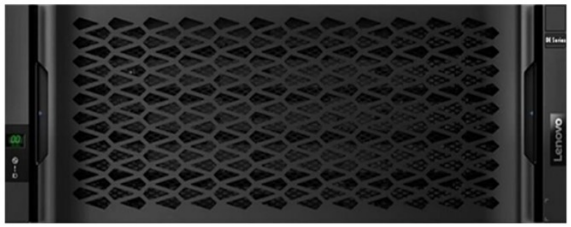
SD630v2
128 THREADS
1TB RAM
2x 25GE



CPU
3x enclosure DA240

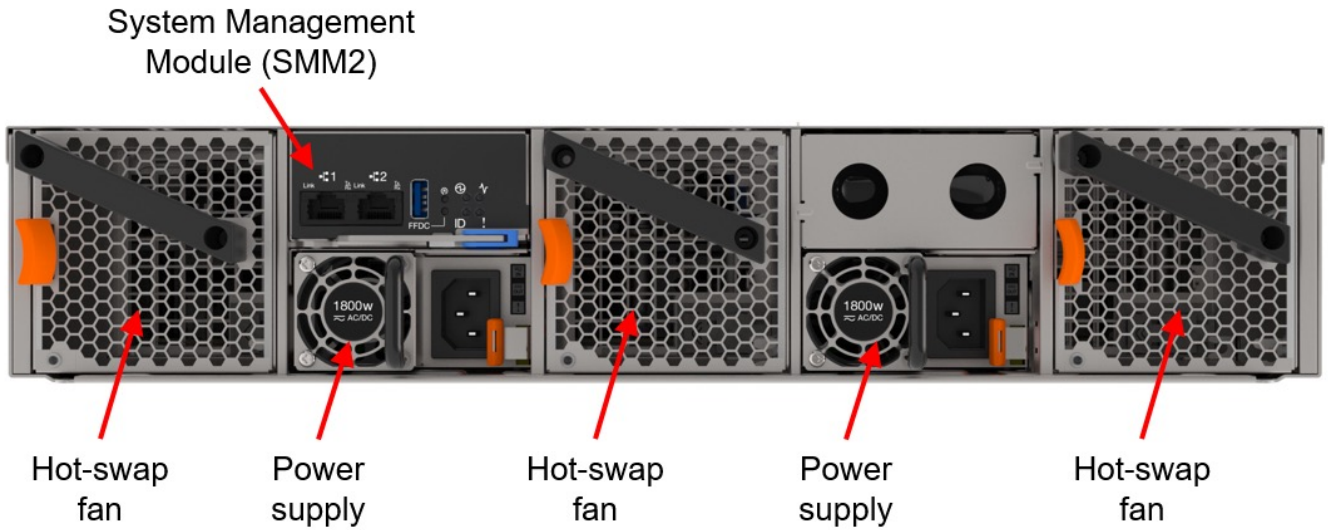
DE6000H
96 TB SSD

DE600S
1 PB HDD
8x 25GE

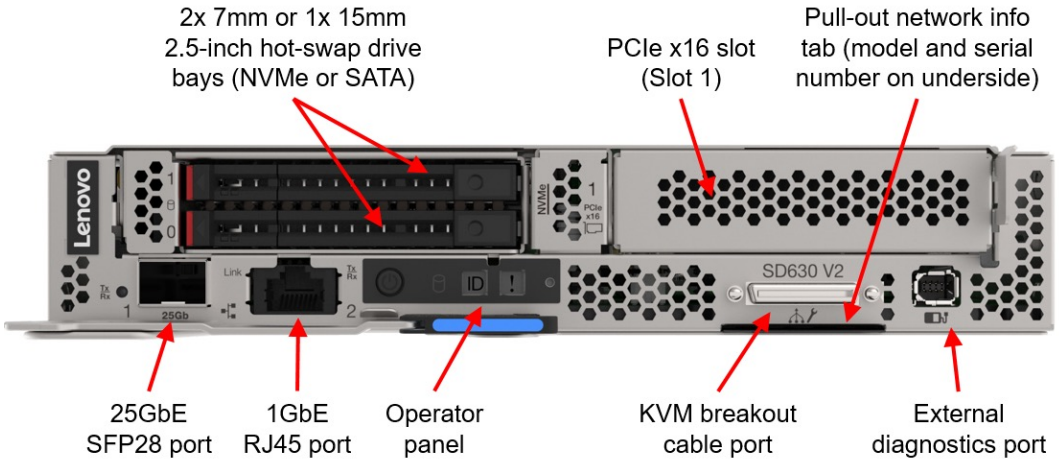


Storage

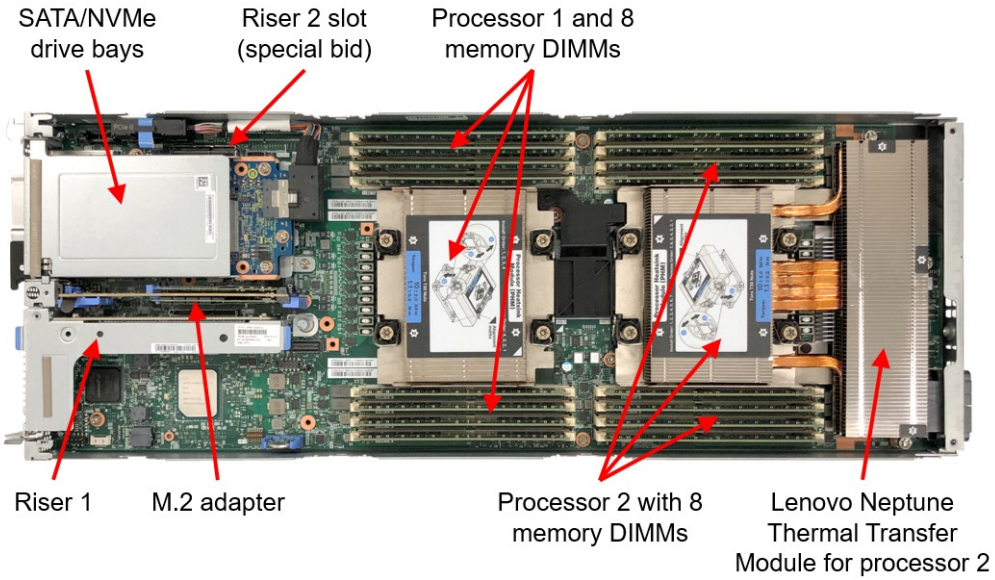
Enclosure DA 240 - Struttura



Unità Server SD630V2



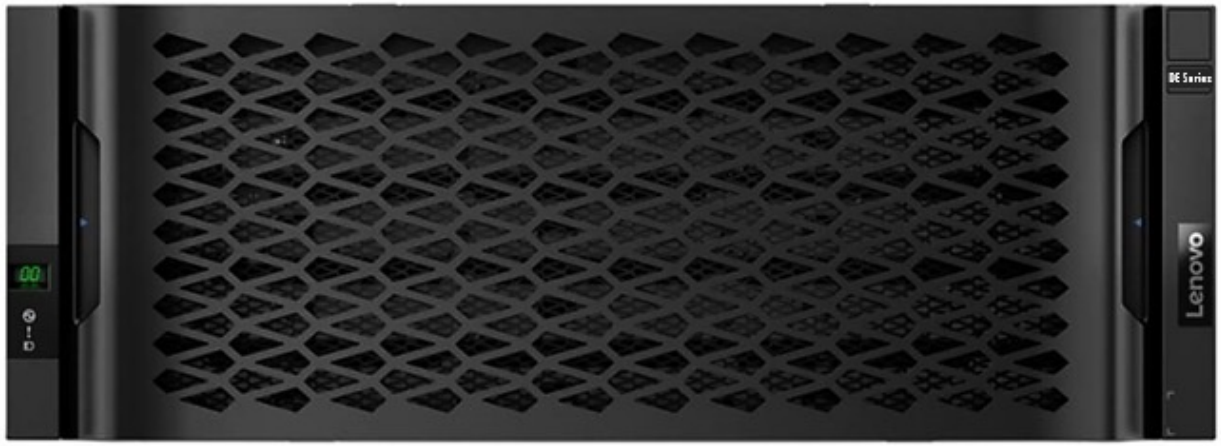
- **Dual CPU Intel Xeon 32 cores (64 threads)**
- **1 TB Ram (64GBx16)**
- **n. 2 SSD NVMe 960GB (RAID1)**



Unità Storage

ST. DE6000H
96 TB (24 x 3.84TB) SSD

EXP. DE600S
1 PB (60 x 18TB) HDD

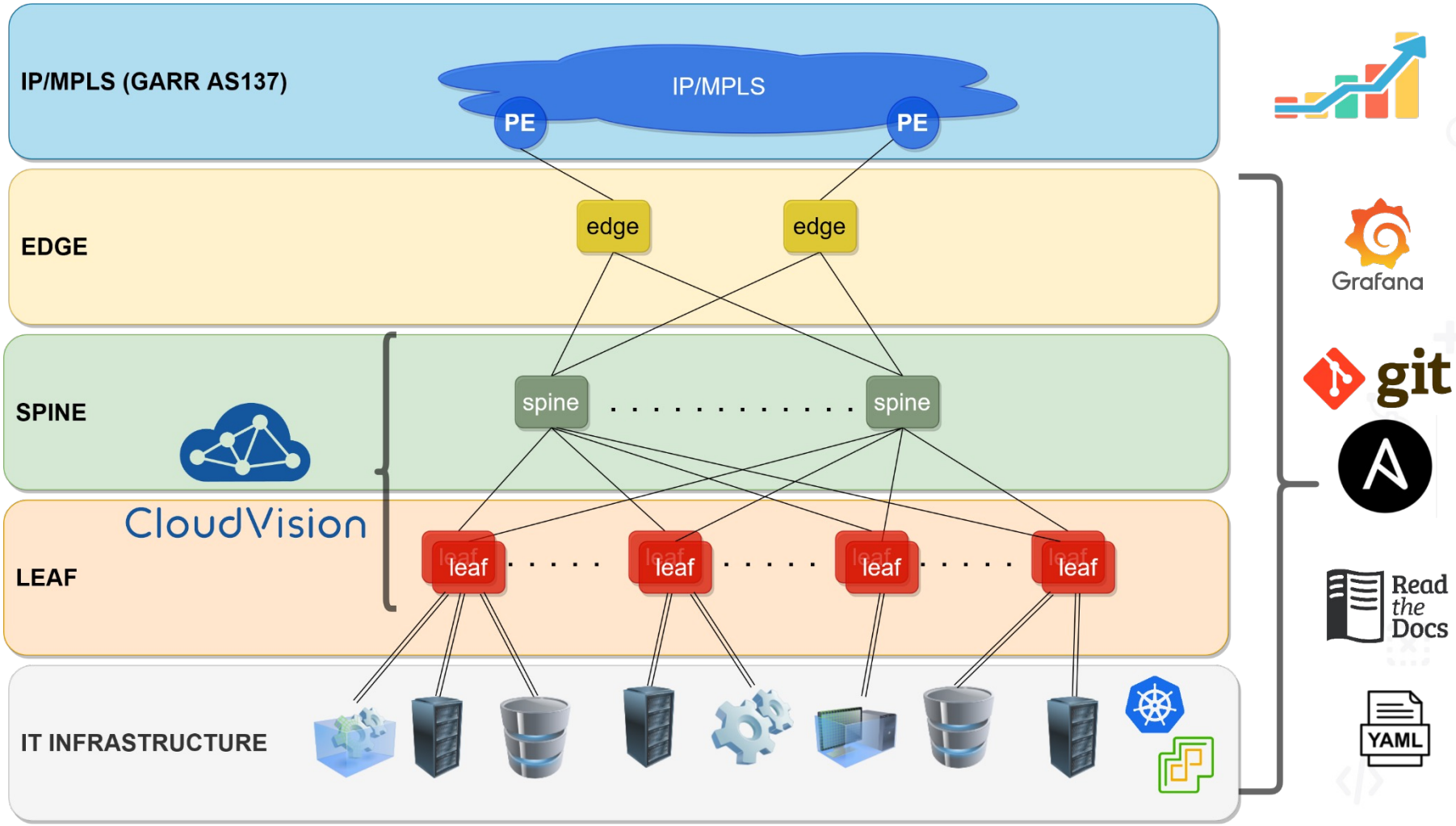


Evoluzione IT – Mini DC

PIANO TEMPORALE

- **BARI** 07-08/2022
- **RM Sapienza** 08-09/2022
- **RM Tizii** 08-09/2022
- **RM Frascati** 08-09/2022
- **BOLOGNA** 11-12/2022

Architettura di Rete



Tecnologia adottata

MX-204
(4x 100G + 8x 10/1G)

BL

7050CX3-32S-F
(32x 100G)

SPINE

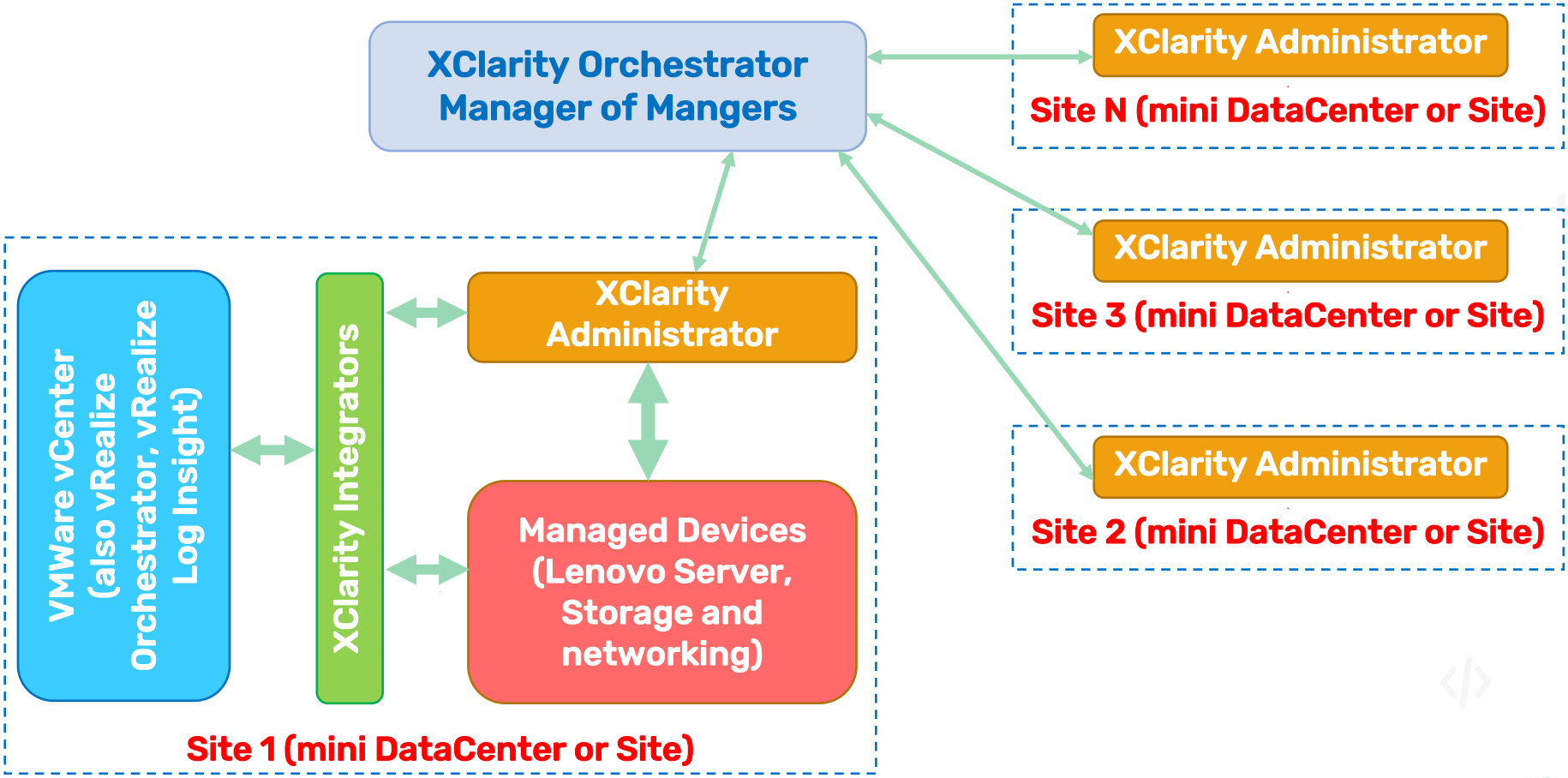
7050SX3-48YC8-F
(8x 100G + 48 25/10/1G)

LEAF

CloudVision

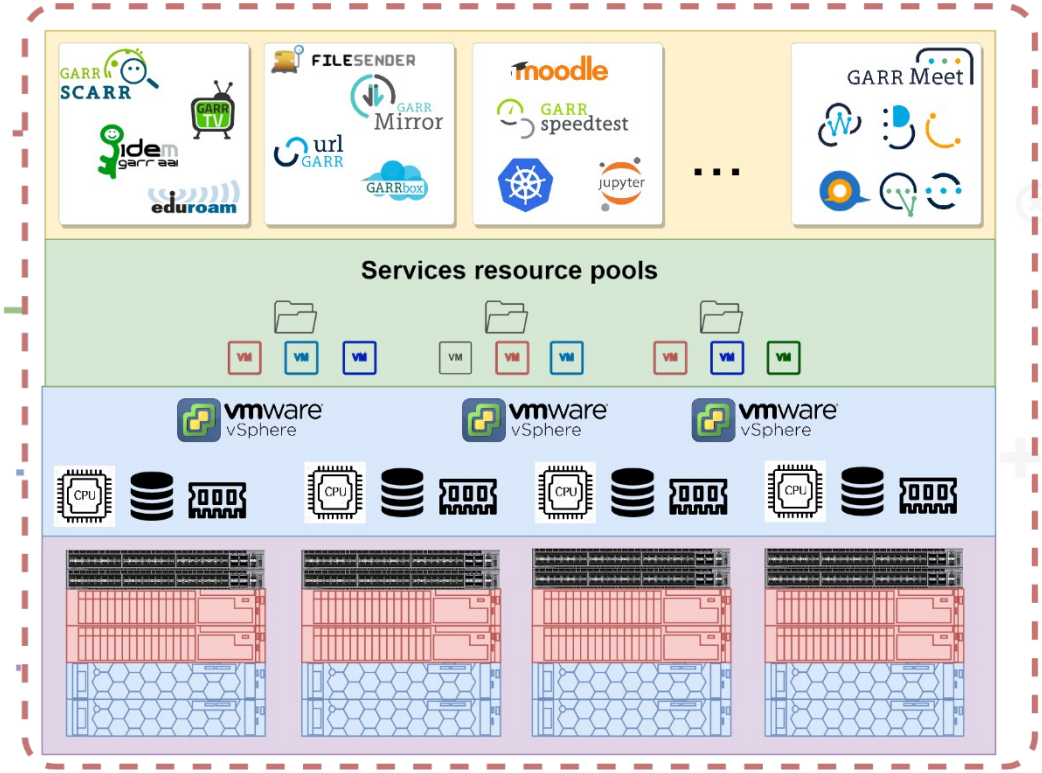
Piattaforma di gestione

Lenovo XClarity Administrator (LXCA)
Lenovo XClarity Orchestrator (LXCO)

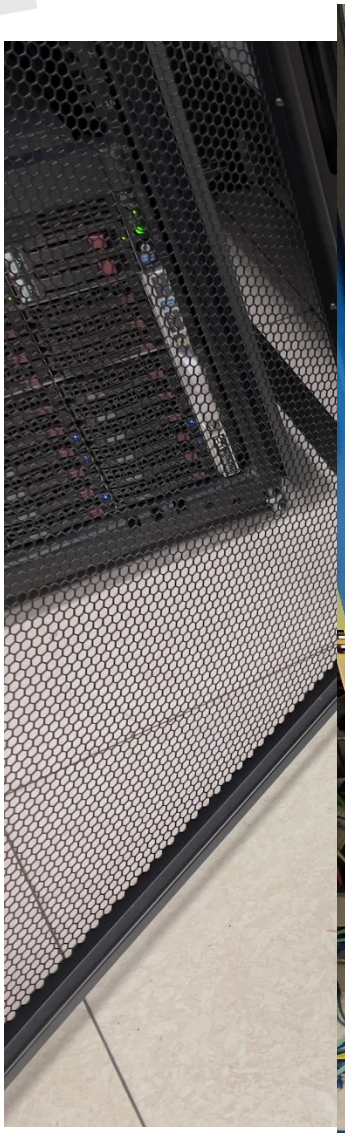


Prossimi passi

1. Application Service
2. Infrastructure Virtualization
3. Convergence Layer
4. Physical Resources



- Maggiore efficienza erogazione servizi attuali
- Nuovo modello basato su storage iSCSI
- Erogazione servizi multi-site



Grazie per l'attenzione

Domande