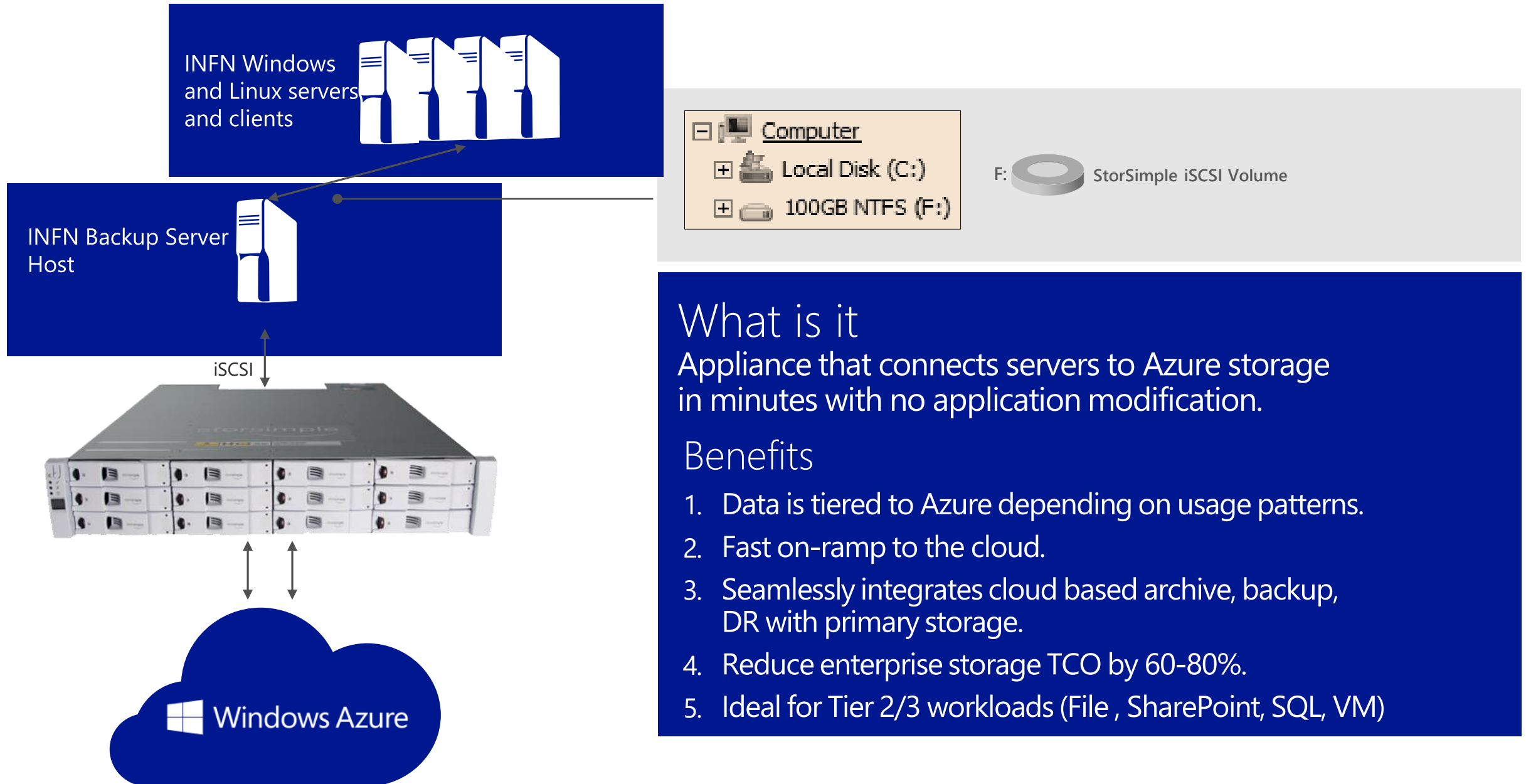# StorSimple + Azure

Solving File and Backup Challenges
using Hybrid Cloud Storage

INFN

Microsoft

StorSimple Hybrid Cloud Storage and Windows Azure for INFN

INFN Windows and Linux servers and clients

INFN Backup Server Host

iSCSI

Windows Azure

- [ ] 🖥 Computer
  - [+] 🖨 Local Disk (C:)
  - [+] 💾 100GB NTFS (F:)

F: ⬭ StorSimple iSCSI Volume

What is it
Appliance that connects servers to Azure storage in minutes with no application modification.
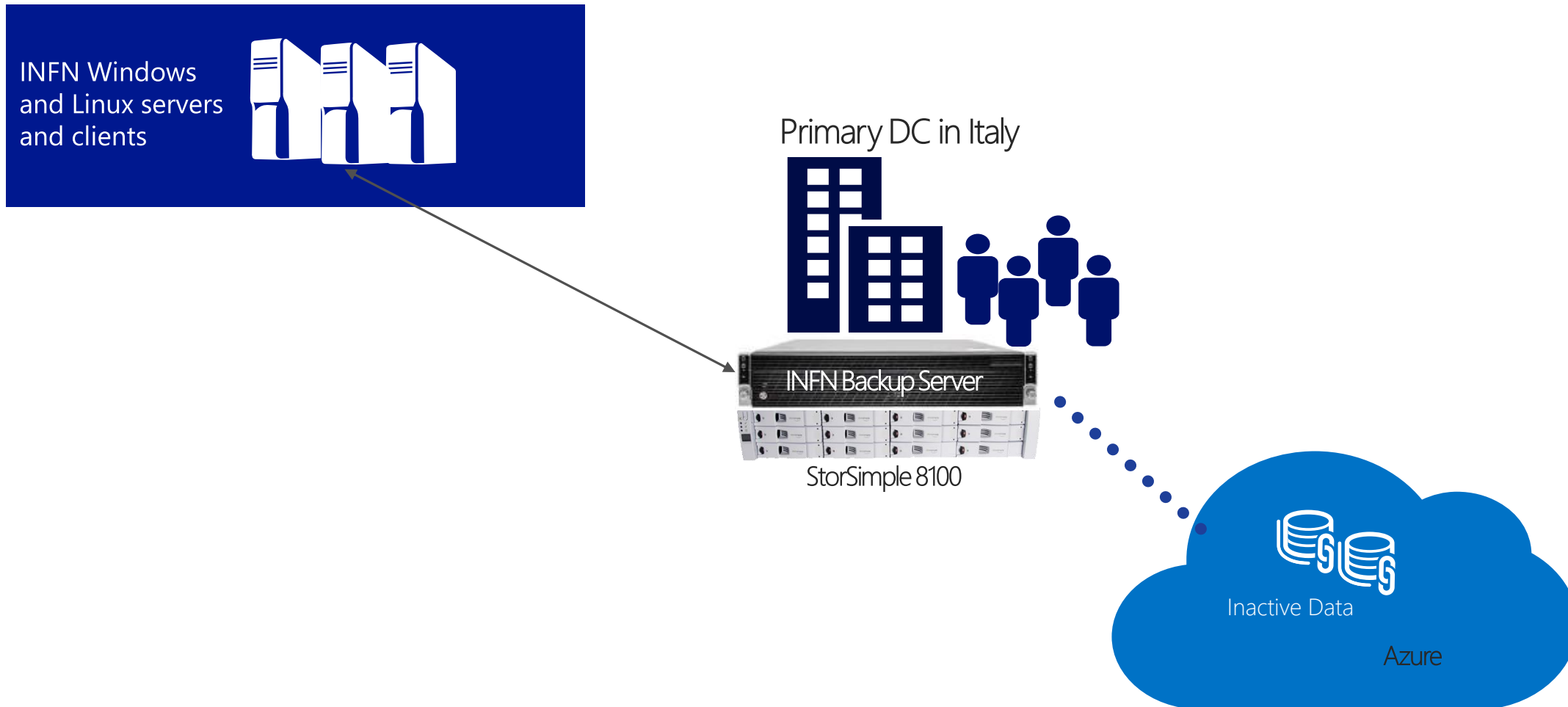
Benefits
1. Data is tiered to Azure depending on usage patterns.
2. Fast on-ramp to the cloud.
3. Seamlessly integrates cloud based archive, backup, DR with primary storage.
4. Reduce enterprise storage TCO by 60-80%.
5. Ideal for Tier 2/3 workloads (File , SharePoint, SQL, VM)

Series 8000 models

Models		
Model Number	8100	8600
Total usable capacity	15TB	40TB
Usable SSD Capacity	800GB	2TB
Effective Local Capacity	15-45TB	40-120TB
Max Volume Capacity	64TB	64TB
Max Capacity (including cloud)	200TB	500TB
Network Interface Cards	4 x 1Gbps and 2 x 10Gbps	
Enclosure Form Factor	1 X 2U	2 X 2U

Solution for client backups archiving: tape replacement

INFN Windows and Linux servers and clients

Primary DC in Italy

INFN Backup Server

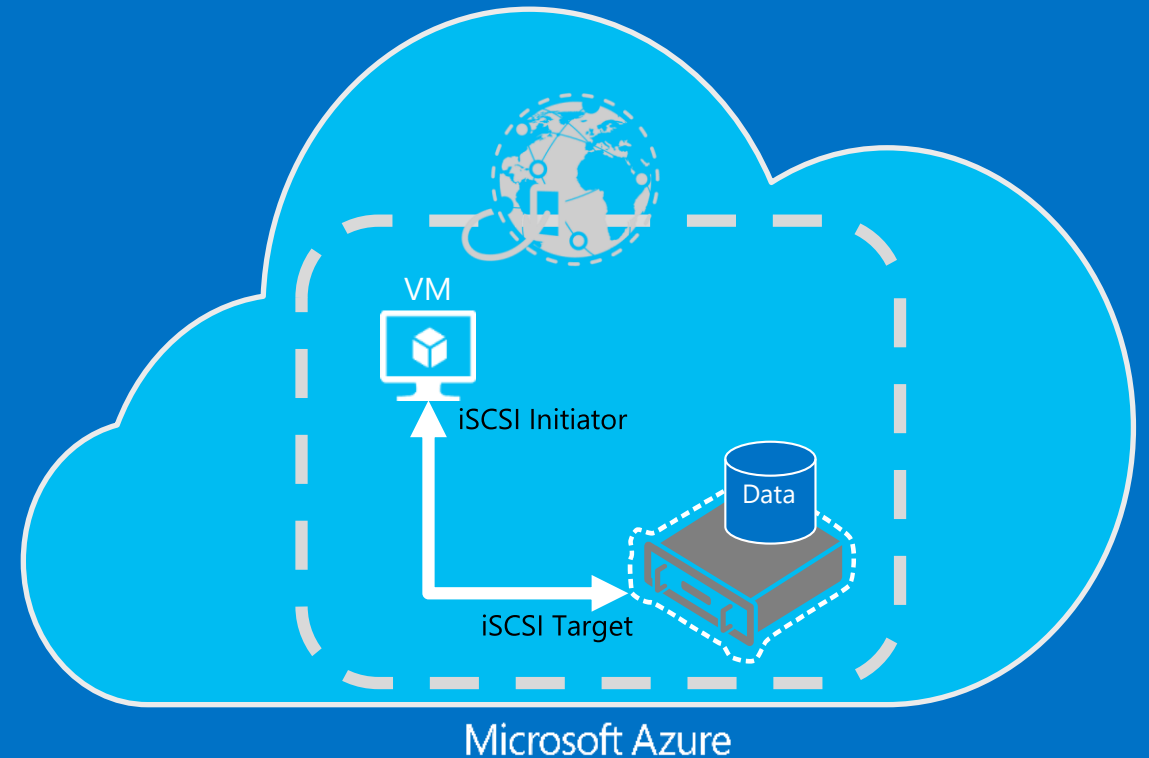StorSimple 8100

Inactive Data

Azure

StorSimple Virtual Appliance

The Virtual Appliance is a software version of the physical array that runs on a VM in Azure and can be provisioned and turned-on as needed.

The StorSimple Virtual Appliance is an iSCSI target for the VMs in Azure.

A virtual network joins VMs and the StorSimple Virtual Appliance.

VM

iSCSI Initiator

Data

iSCSI Target

Microsoft Azure

Solution for Disaster Recovery

Location independent recovery from cloud snapshot

Primary DC in Italy

**LONG TERM BACKUPs
Cloud Snapshot (s)**

3 Hours = 8 checkpoints
Daily = 30 checkpoints
Weekly = 52 checkpoints
Monthly = 12 checkpoints
Yearly = 10 checkpoints

StorSimple Virtual Appliance

Cloud Snapshots