



# HYBRID CLOUD BUYER'S GUIDE

# INDEX

03 INTRODUCTION

04 TODAY'S HYBRID CLOUD  
LANDSCAPE

05 WHAT TO LOOK FOR

06 WHAT TO MEASURE

07 NGX STORAGE PRODUCTS  
OVERVIEW

09 CHOOSING THE RIGHT OPTION

10 NEXT STEPS

11 BEFORE MOVING FORWARD

# INTRODUCTION

Hybrid cloud is now the standard IT strategy for organisations seeking flexibility, resilience, and cost control. By combining on-premises infrastructure with public cloud, businesses balance performance with governance and security.

Hybrid success, however, depends on one critical layer: storage.

As workloads move across environments, storage must ensure low latency, seamless data mobility, strong protection, and consistent performance.

- *This guide explains how to build a hybrid cloud storage foundation designed for long-term performance and scalability.*

# TODAY'S HYBRID CLOUD LANDSCAPE

Modern IT environments include:

- On-premises data centres
- Public cloud providers (AWS, Azure, GCP)
- Edge locations
- Virtualised and containerised workloads
- AI and analytics platforms

Key realities:

- Not all workloads belong in the public cloud
- Latency-sensitive systems require local performance
- Data sovereignty and compliance demand control
- Cloud costs become unpredictable at scale

Hybrid cloud is not about replacing infrastructure.

It is about intelligently balancing control, performance, and elasticity.

## *Key Challenges*

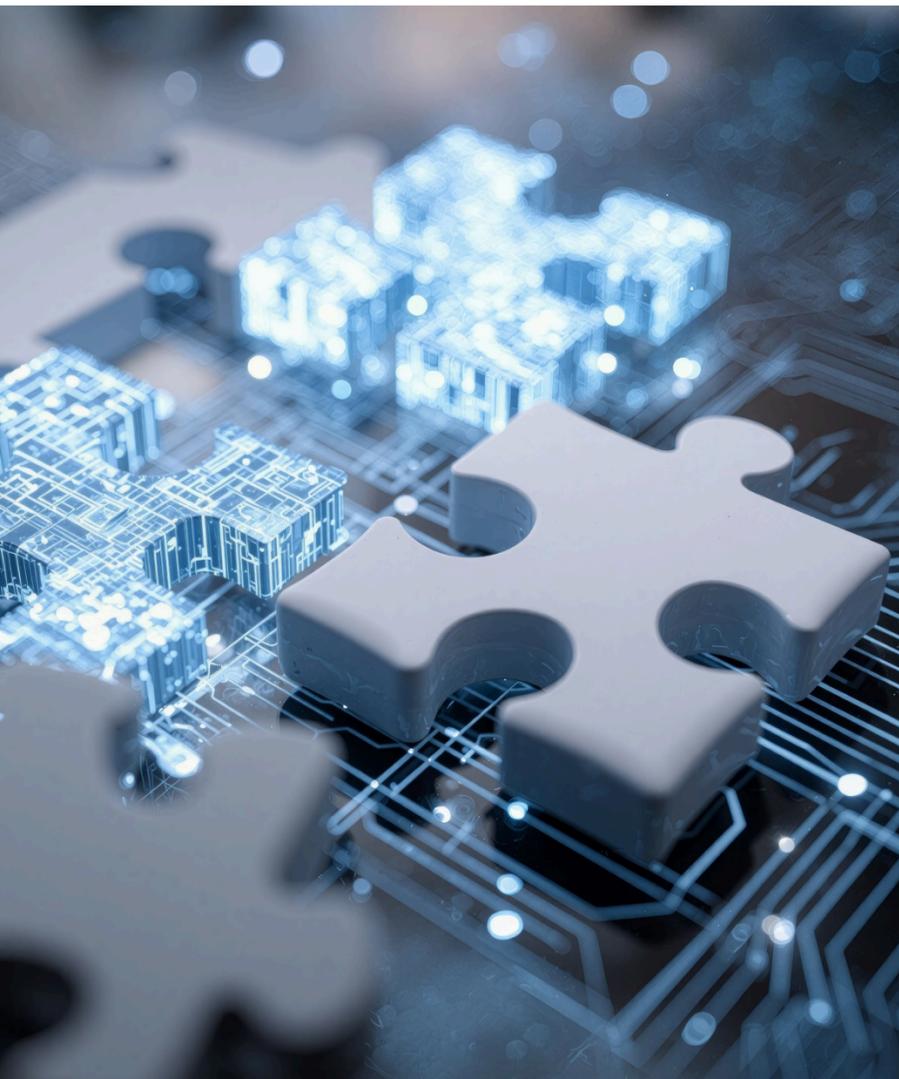
As organisations adopt hybrid cloud, they encounter:

- Latency inconsistencies between environments
- Data fragmentation across platforms
- Unpredictable cloud egress costs
- Complex data mobility
- Inconsistent security policies
- Backup sprawl and compliance risks
- Performance degradation under mixed workloads
- Limited visibility across environments

These challenges highlight the need for a unified storage strategy that spans on-prem and cloud seamlessly.

# WHAT TO LOOK FOR

WHEN SELECTING HYBRID CLOUD STORAGE, PRIORITISE:



## WHAT TO LOOK FOR

- **Low Latency Performance**  
Mission-critical workloads cannot tolerate delay.
- **Unified Multi-Protocol Access**  
Block, file, and object in one architecture.
- **Seamless Data Mobility**  
Efficient replication and cloud tiering.
- **Strong Data Protection**  
Immutable snapshots and ransomware resilience.
- **Non-Disruptive Scaling**  
Expand capacity and performance independently.
- **Cost Efficiency**  
Data reduction and tier optimisation.
- **Cloud-Ready Integration**  
Native support for S3, backup targets, and cloud connectivity.

Hybrid cloud is successful only when storage remains consistent, secure, and predictable across environments.

# WHAT TO MEASURE

Track these core metrics:

- ✓ **Latency:** Cross-environment consistency.
- ✓ **IOPS & Throughput:** For both transactional and analytics workloads.
- ✓ **Replication Speed:** RPO and RTO performance.
- ✓ **Consistency Under Load:** Performance must not collapse at peak times.
- ✓ **Scalability:** Ability to scale capacity and performance independently.
- ✓ **Durability & Integrity:** Protection during failures and rebuilds.

Metrics reveal whether your hybrid strategy is technically sustainable, not just architecturally appealing.





# NGX PRODUCTS OVERVIEW

NGX Storage delivers two storage families built for hybrid cloud environments, balancing ultra-low latency performance with scalable, cloud-ready capacity.

From mission-critical workloads to large backup and repository systems, NGX Storage provides a unified storage foundation across on-prem and hybrid infrastructures.

**For Critical  
Workloads**

**NGX AFA  
Series**

**For Hybrid  
Capacity &  
Backups**

**NGX Hybrid  
Series**

# NGX STORAGE PRODUCTS OVERVIEW

## NGX AFA SERIES

Engineered for performance-critical hybrid workloads requiring ultra-low latency, high concurrency, and predictable responsiveness. Ideal for core applications, databases, and virtualisation platforms that must remain on-prem while integrating with cloud environments.

## NGX HYBRID SERIES

Designed for large-scale repositories, backup targets, and mixed hybrid workloads. Delivers cost-efficient capacity, flash-accelerated reads, and seamless cloud integration for scalable data growth.

For Critical  
Workloads

### NGX AFA Series

- High-core CPUs
- Up to 8TB DRAM cache
- 100GbE / 64Gb FC
- FC / iSCSI / NFS
- Native replication
- MetroScale clustering
- Immutable snapshots
- Deduplication & compression

For Hybrid  
Capacity &  
Backups

### NGX Hybrid Series

- Cache-centric architecture
- Flash tier acceleration
- FC / iSCSI / NFS / SMB / S3
- Native replication
- Immutable snapshots
- Deduplication & compression



# CHOOSING THE RIGHT HYBRID STRATEGY

As hybrid strategies evolve, organisations typically follow one of three paths. Your priorities (performance, cost efficiency, or scalability) guide the right direction.

- 1. Performance-Driven Hybrid:** Keep critical workloads on-prem, use cloud for DR.
- 2. Cost-Optimised Hybrid:** On-prem for performance, cloud for archive and scale.
- 3. Cloud-Extended Infrastructure:** Expand capacity via hybrid without full migration.

The best approach depends on workload sensitivity, compliance requirements, budget strategy, and your long-term IT roadmap.



# NEXT STEPS

## 01 Assess Current Infrastructure

Identify bottlenecks and cloud dependencies.

## 02 Define Hybrid Objectives

Performance, cost control, compliance, or scalability?

## 03 Map Workloads

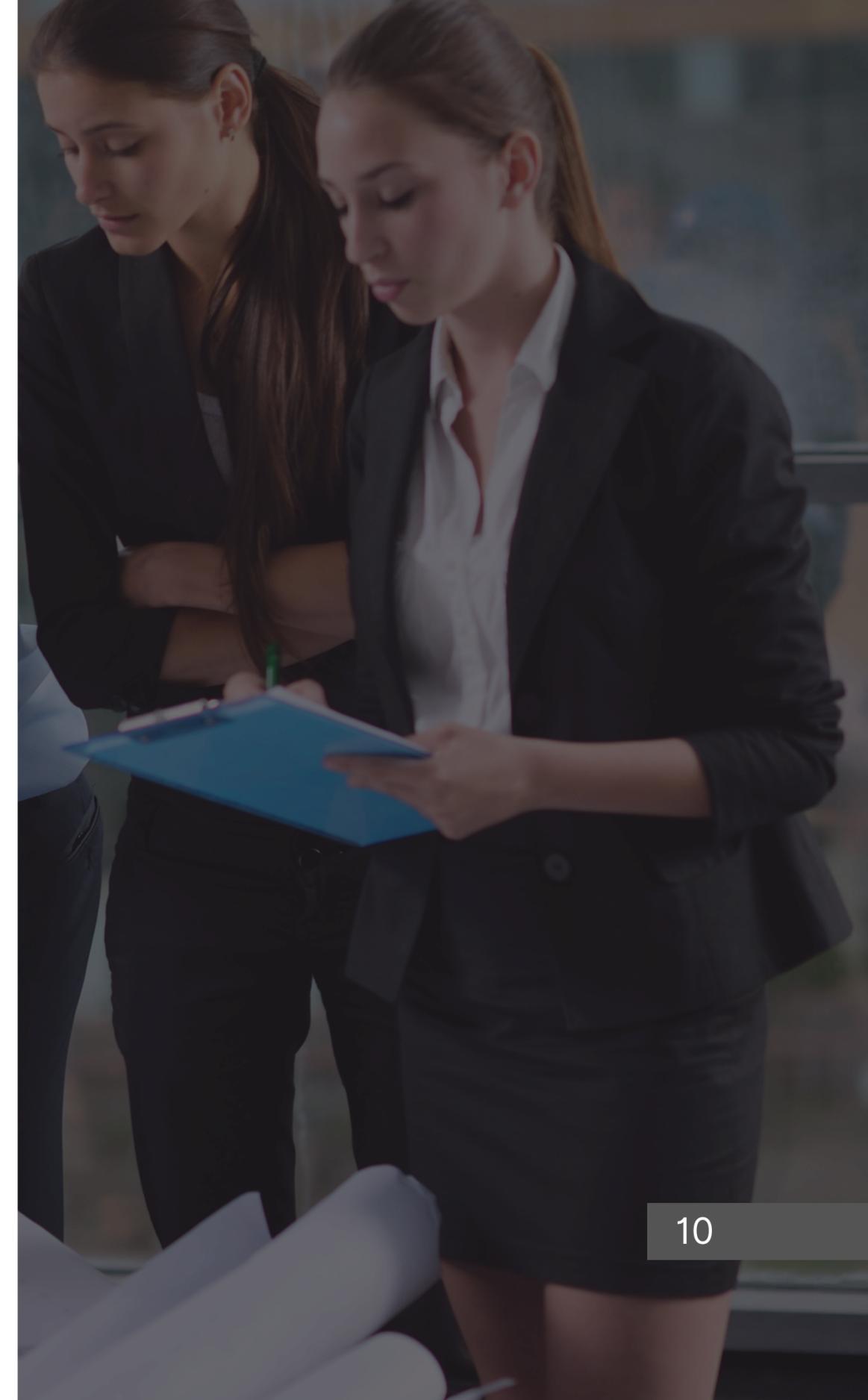
Determine which remain on-prem and which extend to cloud.

## 04 Evaluate Storage Architecture

Ensure replication, security, and scalability are built-in.

## 05 Validate with a Proof of Concept

Test under real hybrid conditions.



# BEFORE YOU MOVE FORWARD

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Before you move forward, it is essential to recognise that hybrid cloud success depends on designing intelligent, seamless data flow across environments. A strong hybrid strategy requires consistent low latency, secure data mobility, predictable performance, unified management, and resilient protection. NGX Storage delivers a stable, secure, and cost-effective foundation that empowers organisations to build a bulletproof hybrid cloud architecture with confidence.

Bulletproof your hybrid cloud with NGX Storage.



BULLETPROOF YOUR STORAGE WITH  
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