

Whitepaper



ROI Comparison

Thinfinity on Oracle Cloud vs.
Azure Virtual Desktop + Nerdio

Table of contents

1. Executive summary	03
2. Licensing & Access costs	03
3. Infrastructure & Cloud cost comparison	04
4. Management & Automation	04
5. Security & Compliance	05
6. Detailed scenario ROI modeling	05
6.1. Scenario 1: 500 Users – Persistent 1:1 Desktops	. 05
6.2. Scenario 2: 1,000 Users – Session-based desktops	06
6.3. Scenario 3: 2,500 Users – Non-persistent 1:1 desktops	06
6.4. Scenario 4: 5,000 Users – Mixed environment	07
6.5. Scenario 5: 50 GPU-accelerated desktops – Creative teams	08
7. Summary table	08
8. Final takeaways	09
9. Recommendation	09

1. Executive summary

As organizations accelerate their digital workspace strategies, cloud-based VDI and application delivery platforms have become a cornerstone of modern IT infrastructure. Two major solutions stand out:



Thinfinity Workspace deployed on **Oracle Cloud Infrastructure (OCI)** with built-in orchestration and Zero Trust access.



Azure Virtual Desktop (AVD) with **Nerdio Manager** for automation and cost optimization.

While AVD + Nerdio provides automation features and tight Microsoft integration, it introduces higher complexity, layered infrastructure, and inefficient per-connected-user licensing. Thinfinity on OCI offers a modernized approach with concurrent-user licensing, lower cloud costs, integrated orchestration, and secure browser-based access.

This document delivers an in-depth ROI analysis across five common VDI use cases, highlighting infrastructure assumptions, usage patterns, licensing impacts, and technical insights from a solution engineering perspective.

2. Licensing & Access costs

AVD + Nerdio

- **Per-connected-user billing:** Charges apply to any user who connects during the billing cycle—even once.
- **Requires:**
 - Microsoft 365 E3/E5 license for internal users (\$32–\$57/user/month)
 - AVD access (~\$10/user/month)
 - Nerdio Manager (~\$10–\$12/user/month)
- Licensing inefficiencies multiply in hybrid, seasonal, and shift-based environments.

Thinfinity on OCI

- **Flat \$10 per concurrent user** per month.
- Pay only for peak simultaneous usage.
- All core features (orchestration, brokering, logging, ZTNA) are built in.
- No separate licensing tiers or automation add-ons required.



Engineering insight

Thinfinity aligns costs directly to usage patterns—cutting licensing waste by up to 60% in dynamic environments.

3. Infrastructure & Cloud cost comparison

Resource type	Azure (AVD)	Oracle Cloud (Thinfinity)
Standard VM (4 vCPU / 16 GB RAM)	~\$0.25/hr	~\$0.126/hr
GPU VM (NVIDIA A10)	~\$1.75/hr	~\$1.02/hr
SSD Storage	~\$0.05/GB/month	~\$0.0425/GB/month
Egress Data	~\$0.087/GB	~\$0.005–\$0.0085/GB



Engineering insight

OCI consistently delivers 35–90% lower cloud resource costs across compute, storage, and networking.

4. Management & Automation

AVD + Nerdio

- Auto-scaling, image management, and profile optimization require Nerdio.
- Multiple admin consoles (Azure Portal + Nerdio)
- Typical onboarding: 2–4 weeks including image tuning and FSLogix integration.

Thinfinity on OCI

- Includes **Thinfinity Cloud Manager** for orchestration, session lifecycle, image cloning, and auto-scaling.
- Deploy from Oracle Marketplace in hours.
- Unified management interface with full control.



Engineering insight

Thinfinity reduces time-to-deploy by up to 75% and eliminates need for third-party automation stacks.

5. Security & Compliance

AVD + Nerdio

- MFA/SSO through Azure AD & Entra ID (complex setup).
- VPN or Azure B2B often needed for hybrid access.
- Session recording and audit logs require third-party add-ons.

Thinfinity on OCI

- Native Zero Trust browser-based access.
- Built-in:
 - IP filtering
 - Session isolation
 - Geo-IP blocking
 - Audit logs
 - Session recording
- Compliant with financial, healthcare, and public sector requirements.



Engineering insight

Thinfinity removes reliance on VPNs and third-party tools, accelerating regulatory alignment.

6. Detailed scenario ROI modeling

6.1. Scenario 1

500 Users – Persistent 1:1 desktops (9–5 office staff)

Assumptions:

- 50% concurrency (250 users).
- 176 hours/month.
- VM: Standard_D4s_v3 (AVD), E4.Standard (OCI).

Component	AVD + Nerdio	Thinfinity on OCI
Licensing	500 users × \$20 = \$10,000	250 concurrent × \$10 = \$2,500
Compute	250 VMs × 176 hrs × \$0.25 = \$11,000	250 VMs × 176 hrs × \$0.126 = \$5,544
Total	\$21,000	\$8,044
Savings	-	\$12,956 (62%)



Engineering insight

Nerdio charges for every user—even those who log in once. Thinfinity avoids this entirely.

6.2. Scenario 2

1,000 Users – Session-based desktops (24/7 support)

Assumptions:

- 70% concurrency (700 users).
- 730 hours/month.
- User density: 10 users per VM → 70 VMs.

Component	AVD + Nerdio	Thinfinity on OCI
Licensing	$1,000 \times \$20 = \$20,000$	$700 \times \$10 = \$7,000$
Compute	$70 \text{ VMs} \times 730 \text{ hrs} \times \$0.40 = \$20,440$	$70 \text{ VMs} \times 730 \text{ hrs} \times \$0.20 = \$10,220$
Total	\$40,440	\$17,220
Savings	-	\$23,220 (57%)



Engineering insight

Thinfinity handles rotating shifts efficiently—unlike AVD, which counts every shift worker as a billed user.

6.3. Scenario 3

2,500 Users – Non-persistent 1:1 desktops (contractor workforce)

Assumptions:

- 40% concurrency (1,000 users).
- 176 hours/month.
- Non-persistent VMs, reset on logout.

Component	AVD + Nerdio	Thinfinity on OCI
Licensing	$2,500 \times \$20 = \$50,000$	$1,000 \times \$10 = \$10,000$
Compute	$1,000 \times 176 \text{ hrs} \times \$0.25 = \$44,000$	$1,000 \times 176 \text{ hrs} \times \$0.126 = \$22,176$
Total	\$94,000	\$32,176
Savings	-	\$61,824 (66%)



Engineering insight

Perfect use case for concurrency licensing—contractors who log in irregularly still drive full cost in AVD.

6.4. Scenario 4

5,000 Users – Mixed environment (persistent, session, application publishing)

Assumptions:

- 3,500 concurrent users.
- 1,400 persistent VMs.
- 180 session-based VMs.
- 30 application publishing VM.
- 730 hours/month.

Component	AVD + Nerdio	Thinfinity on OCI
Licensing	$5,000 \times \$20 = \$100,000$	$3,500 \times \$10 = \$35,000$
Compute – Persistent	$1,400 \times 176 \text{ hrs} \times \$0.25 = \$61,600$	$1,400 \times 176 \times \$0.126 = \$31,046$
Compute – Sessions	$180 \times 730 \text{ hrs} \times \$0.40 = \$52,560$	$180 \times 730 \times \$0.20 = \$26,280$
Compute – Applications	$30 \times 730 \text{ hrs} \times \$0.20 = \$4,380$	$30 \times 730 \times \$0.10 = \$2,190$
Total	\$218,540	\$94,516
Savings	-	\$124,024 (57%)



Engineering insight

Thinfinity handles diverse workload types in a single control plane with lower overhead.

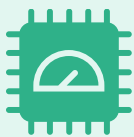
6.5. Scenario 5

50 GPU-accelerated desktops – Creative teams (9–5)

Assumptions:

- 100% concurrency.
- 176 hours/month.
- 1VM with NVIDIA A10 GPU.

Component	AVD + Nerdio	Thinfinity on OCI
Licensing	$50 \times \$20 = \$1,000$	$50 \times \$10 = \500
Compute	$50 \times 176 \text{ hrs} \times \$1.75 = \$15,400$	$50 \times 176 \times \$1.02 = \$8,976$
Total	\$16,400	\$9,476
Savings	-	\$6,924 (42%)



Engineering insight

OCI's GPU pricing is far more competitive than Azure's, especially for persistent creative workstations.

7. Summary table

Scenario	AVD + Nerdio	Thinfinity	Monthly savings	% saved
500 Persistent (9–5)	\$21,000	\$8,044	\$12,956	62%
1,000 Session-Based (24/7)	\$40,440	\$17,220	\$23,220	57%
2,500 Non-Persistent Contractors	\$94,000	\$32,176	\$61,824	66%
5,000 Mixed Users	\$218,540	\$94,516	\$124,024	57%
50 GPU Workstations	\$16,400	\$9,476	\$6,924	42%

8. Final takeaways

As organizations accelerate their digital workspace strategies, cloud-based VDI and application delivery platforms have become a cornerstone of modern IT infrastructure. Two major solutions stand out:



Licensing

Nerdio's per-connected-user model leads to inefficiencies in dynamic and part-time environments. Thinfinity's concurrency model is both predictable and fair.



Infrastructure

OCI consistently undercuts Azure pricing for standard and GPU workloads, while also offering better egress rates.



Management

Thinfinity deploys in hours and includes orchestration. AVD + Nerdio takes weeks and adds cost layers.



Security

Thinfinity's built-in Zero Trust access and audit features eliminate VPN and extra tools.



Use Case Versatility

From persistent VDI to GPU-powered workstations, Thinfinity provides a unified solution stack with lower TCO.

9. Recommendation

- **Thinfinity on Oracle Cloud Infrastructure** offers a robust, enterprise-grade VDI and application delivery platform with better ROI, faster time-to-value, and drastically reduced complexity compared to AVD + Nerdio.
- Organizations with fluctuating workloads, external users, or large-scale operations can achieve up to **66% monthly savings** without sacrificing performance, security, or control.



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