

# Modern load balancing for AVD: introducing Global Pools

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# Agenda

1. Azure Virtual Desktop: host pool challenges
2. How does Nerdio solve this?
3. Nerdio Global Pools: demo
4. Q&A

# AVD host pools: the challenges

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# AVD host pool challenges

- Managing **multiple** Azure Virtual Desktop (AVD) host pools independently creates operational silos and administrative overhead.
- **Static** user-to-host pool assignments lead to inefficient resource utilization and limited scalability.
- Regional distribution of users requires **manual balancing**, making high availability and failover complex.
- Scaling up/down across host pools often results in **overprovisioning or performance gaps**.
- All these issues are compounded for extremely large organizations
  - Think of the overhead of managing 50+ host pools!



# How does Nerdio solve this?

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# Introducing Nerdio Global Pools

Nerdio Global Pools unifies multiple AVD host pools into a single, logical pool for simpler management at scale. Users are assigned to a Global Pool and see a single desktop or set of applications, while Nerdio assigns and reassigns them to the appropriate host pool based on configured policies and evolving conditions.

A Global Pool Profile (similar to a host pool profile) ensures configuration consistency across host pools within a Global Pool while allowing flexibility to select different regions, desktop images, and other settings per host pool, as needed.

# How does Nerdio solve these challenges?

## Global Pools = Unify multiple host pools into a single logical resource layer, eliminating administrative overhead.

- Leverage Entra ID groups (and in the future, Entra ID attributes) to assign users based on percentage-based allocation to host pools or, in the future, assignment policies
- Decouples users from fixed infrastructure, allowing fluid user assignments between host pools, while delivering a consistent user experience.
- Provide a consistent, true host pool failover infrastructure
- Use provisioning policies to automate your user assignments
- Familiar with global entitlements or load balancing?
  - **Global Pools** will achieve this for Azure Virtual Desktop

## Bottom line

- Moving from individual host pools to Global Pools transforms AVD management from **manual and fragmented** → **automated and intelligent**
- Global Pools enables a **more resilient, scalable, and efficient desktop and app delivery model** at enterprise scale

# How does Nerdio solve these challenges?

## Global Pools – Current state

### Assignment policy by department or regions:

- Use your Entra ID Groups
- Split user assignments throughout multiple groups of host pools based on configurable percentages

### Two management possibilities

#### User assignment mode = Global Pool Level

- Assign an Entra ID group at the **Global Pool Level**, and distribute users to all the member host pools, as needed

#### User assignment mode = Pools Group Level

- Assign Entra ID groups at the **Pool Group Level**, allowing flexibility in assigning users to different host pool groups based on departments, regions, or other administrative scenarios

## Bottom line

- Global Pools enables greater flexibility for different scenarios, environments, and customer estates
- Continue a consistent user experience for your users, while achieving a seamless migration of users between host pools

# How does Nerdio solve these challenges?

## Global Pools – Future state and vision

- Leverage Entra ID attributes
- Support multiple subscriptions: Bypass API throttling and limits!

### Assignment policy examples (Options will be configurable):

Bursting from AVD Hybrid or Azure Local to Azure Cloud

- If your on-premises infrastructure has issues or does not have enough capacity, reassign all, or a subset of your users, to Azure Cloud. Easily revert this change.

Staggered deployment of desktop images to host pools

- Seamless rollout of new desktop images and transitioning users manually or automatically.
- Scheduled the transition of user assignments from your production host pool to your UAT (Test) host pools via configurable options, such as percentage-based.

Self-service portal: Allow end users to self-reassign their assigned host pool to different regions based on their schedule/travel.

## Bottom line

- Global Pools will create the foundation to allow greater flexibility for host pools at scale and create true failover and ease scalability management.

# Global Pools: Demo

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Global Pools Tasks

Name	Desktop Experience	User Assignment Mode	Pools Groups	Pools	Hosts	Users	Actions
Global Pool Level Demo	AVD multi-session RemoteApp (pooled)	Global Pool Level East Shared Users	3	4	40	47	⚙️ ⋮
Pools Group Level Demo	AVD multi-session desktop (pooled)	Pools Group Level	3	4	29	39	⚙️ ⋮

➕ New Global Pool



# Nerdio Global Pools roadmap

**Nerdio Manager for  
Enterprise v8.0**

*Available in  
Private Preview!*

**Nerdio Manager for  
Enterprise v8.1 and  
beyond**

*July 2026*

## **Public preview**

- **Global Pools framework**
- Assign Global Entra ID groups
- Automated user distribution based on percentages and priorities
- Key host pool settings and profiles

## **GA and beyond**

- Automated and intelligent Auto-Scale management
- Provision policies for automated reassignments
- Entra ID attributes support
- Additional host pool settings and profiles

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Q&A

# Thank you

Please remember to fill out the post-breakout survey in the app.