NMM Pre-Installation Readiness Checklist

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> Use this checklist before a Nerdio Manager for MSP (NMM) fresh installation. The readiness script handles permissions, resource providers, and region selection automatically — run it first and confirm it passes, then complete the two manual quota checks below.

Step 1 — Run the Readiness Script 🟢 Do This First

Paste this into **Azure Cloud Shell (PowerShell mode)** in the target subscription:

```
irm https://raw.githubusercontent.com/MSP-Sales/nmm-preinstall-checker/main/preinstall_install.ps1 -OutFile nmm.ps1; ./nmm.ps1 -CheckOnly
```

Single self-contained script — no separate template file needed. `-CheckOnly` runs the readiness checks only (nothing is created). To run the full guided install instead, replace `-CheckOnly` with `-ResourceGroupName <name>` — it confirms before deploying anything.

> 📋 **Reading this as a PDF?** Copying the command out of a PDF can split it across lines and break it when pasted. For a clean copy, grab it from the **GitHub README** (use the interactive HTML version's *Copy* button, or the README's).

The script runs three phases automatically:

Phase 0 — Permissions	Verifies Subscription **Owner** + Entra ID **Global Administrator** — reports PASS / FAIL per check
Phase 1 — Resource Providers	Checks all 15 required providers are Registered
Phase 2 — Region Eligibility	Prompts for the partner's location, then finds regions offering both App Service `B2` (Windows) and Azure SQL Standard/ `S1` — outputs a ranked table of eligible regions and the reason any region was excluded

Available switches:

Switch	Default	Description
`-RegisterProviders`	*off*	Register any missing providers automatically and poll until complete. Recommended on first run.
`-Regions`	*all regions*	Comma-separated region slugs to limit the Phase 2 check (e.g. `eastus,centralus,westus2`). Faster when you already have a region preference.
`-Geography`	*prompts*	Limit the Phase 2 check to one part of the world instead of naming slugs. Accepts: `US`, `Canada`, `Mexico`, `NorthAmerica`, `Europe` (incl. UK), `UK`, `AsiaPacific`, `MiddleEast`, `Africa`, `SouthAmerica`, `All`. If omitted, the script shows an interactive "where is this deployment located?" menu.
`-SubscriptionId`	*current context*	Target a specific subscription if Cloud Shell defaulted to the wrong one.
`-ProviderTimeoutMinutes`	`15`	How long to wait for provider registration when using `-RegisterProviders`.

⚠️ **Run this inside the target subscription's own Cloud Shell.** SQL availability and resource SKU signals are evaluated per-subscription — results are only valid when the check runs against the exact subscription NMM will be installed into. This is especially important for sponsorship or credit-based subscriptions, where SKUs can silently disappear from a region. **When possible, install NMM into a standard Pay-As-You-Go subscription.**

✅ When the script completes, read the **Phase 0** result (permissions), confirm **Phase 1** shows all providers Registered, and note the eligible regions listed by **Phase 2**. Use one of them for Steps 2 and 3 below.

Step 2 — Verify Compute Quota

Portal path: Azure Portal → Subscriptions → [your subscription] → Usage + quotas → filter by Provider: `Compute` and Region: [region from Phase 2]

✓	Requirement	Where to Find It
☐	**Total Regional vCPUs ≥ 10** Minimum required for NMM infrastructure deployment	Usage + Quotas → filter `Compute` → Total Regional vCPUs

ℹ️ Confirm in the region Phase 2 recommended. If the limit is below 10, request an increase: Usage + Quotas → select the row → Request Increase. Reference "Nerdio Manager for MSP deployment" as the workload. Allow 1–2 business days.

Step 3 — Verify App Service Quota

App Service quota counts cannot be surfaced via CLI — they must be verified manually in the portal. The quota blade is currently in preview.

Portal path: Azure Portal → Subscriptions → [your subscription] → Usage + quotas → filter by Provider: `App Service (Public Preview)` and Region: [region from Phase 2]

✓	Requirement	Where to Find It
☐	**Total Regional VMs ≥ 10** Minimum needed for the App Service Plan NMM deploys during installation	Filter `App Service (Public Preview)` → Total Regional VMs
☐	**B2 VMs ≥ 10** NMM deploys a Standard B2 App Service Plan by default	Filter `App Service (Public Preview)` → Standard B2 or B-series

⚠️ If the App Service quota blade is not visible in the portal, the preview feature may not be enabled for this tenant. Contact your Microsoft account team or submit a support request to verify or increase App Service quotas for the target region.

If a Check Fails

Phase 0 — Permissions (FAIL)

Assign
Owner
on the subscription and/or
Global Administrator
in Entra ID to the account running the install, then re-run the script to confirm before proceeding.

Phase 1 — Provider won't register or is stuck in "Registering"

Re-run the script with `-RegisterProviders`. If a provider stays in Registering for more than 10 minutes, the account likely lacks Owner rights (see Phase 0). If permissions are confirmed correct, open an Azure support ticket.

Phase 2 — No eligible region in the output

The subscription has no region that offers both App Service B2 and SQL S1. Submit a quota increase request: Azure Portal → Usage + Quotas → Request Increase. Reference "Nerdio Manager for MSP deployment." Allow 1–2 business days. If urgent, escalate through the Microsoft account team.

Step 2 — Compute quota below 10 vCPUs

Request an increase: Usage + Quotas → select "Total Regional vCPUs" for the target region → Request Increase. Reference NMM as the workload. Allow 1–2 business days.

Step 3 — App Service quota below threshold

Submit a quota increase request for the target region, or contact your Microsoft account team. If the quota blade is not visible in the portal, open a Microsoft support request to verify App Service quotas directly.

All checks pass but the install still fails

Reach out to Nerdio support and include: subscription ID, target region, deployment log output, and a note on which checks above passed. If you're working with a Nerdio Sales Engineer or partner contact, loop them in as well.