



# **An MSP's Guide to Azure VM Series**

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# Virtual Machines (VMs) in Azure come in predefined sizes that are called **families**, or **series**'. An individual VM is often referred to as an **instance**.

Different VM families are designed for different common use-cases, and are comprised of different sizes of RAM and numbers of CPU cores. It's important to understand the differences between these; deploying the right one for the job could save you money!



## A-Series

Entry-level, economical VMs for development and testing.

Used in small deployments where cost-effectiveness is key. Only use these in rare instance implementations with non-customer facing VMs.



## B-Series

Economical, burstable VMs.

Low-cost option for low-CPU workloads that sometimes need much higher CPU utilization. Great for AD servers, 24/7 servers, and non-customer facing servers. They have to run for a long time to bank credits for those moments of higher performance requirements.



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## D-Series

General-purpose workhorse.

Fast CPUs and great optimal CPU-to-memory configuration, making them suitable for most workloads. Pairs well with premium SSD, which is a must for customer-facing solutions and presentation layers, enter-prise grade applications, analytics, and more.



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## E-Series

Optimized for in-memory, hyper-threaded applications.

The E-series family of Azure virtual machines have high memory-to-core ratios and are optimized for heavy in-memory applications, like SAP HANA. Works great for session hosts and collections where the line-of-business applications consume high amounts of memory per user.



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## N-Series

GPU-enabled virtual machines.

Ideal for compute- and graphics-intensive workloads, like high-end remote visualization, deep learning, and predictive analytics.

The N-series has three different offerings for different use-cases, but the NV-series is most common for engineering, 3D modeling, and even gaming.

**This is just a quick introduction – get all the details in the [full article on our website](#).**

# Microsoft Azure made easy

Nerdio for Azure empowers  
MSPs to build successful cloud  
practices in Microsoft Azure.

FREE TRIAL

AZURE COST ESTIMATOR

## COST ESTIMATOR – NERDIO FOR AZURE



There are two major cost components: Azure consumption and Nerdio licenses. This tool will help you estimate the costs for each of the components.

Answer a few questions and we will provide a detailed breakdown.

### 1 What's the use case?



#### IaaS

Manage, auto-scale and back up line-of-business application and database servers in Azure, with NFA Core.

Extend existing network and AD into Azure. Configure auto-scaling, backup and DR of server VMs. Manage the entire environment from an easy-to-use, "three clicks or less" management portal.

Select

#### DaaS

Leverage Azure for a simple virtual desktop environment for a small organization, with NFA Professional.

Stand up an entire small office without the need to install local desktops. Migrate applications and servers to Azure and deploy cloud desktops in minutes. Back up user data and application.

Select

#### ITaaS

Run a complete, virtual desktop centric IT environment in Azure for an organization of any size, with NFA Enterprise.

Migrate an organization's full IT stack to the Microsoft cloud. Run desktops, servers, applications, backup and security in Azure. Integrate with email, collaboration and file storage in Office 365.

Select

### 2 SERVERS

SERVER	INSTANCE SIZE	OS DISK	DATA DISK
AD domain controller	<input type="text" value="DS1v2 (1C/3.5GB/SSD)"/>	<input type="text" value="E10 (128 GB Standard SSD)"/>	<input type="text" value="None"/>
File server	<input type="text" value="DS1v2 (1C/3.5GB/SSD)"/>	<input type="text" value="E10 (128 GB Standard SSD)"/>	<input type="text" value="E10 (128 GB Standard SSD)"/> <input type="button" value="Delete"/>
Server #1	<input type="text" value="DS1v2 (1C/3.5GB/SSD)"/>	<input type="text" value="E10 (128 GB Standard SSD)"/>	<input type="text" value="None"/> <input type="button" value="Delete"/> <input type="button" value="Add another"/>



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