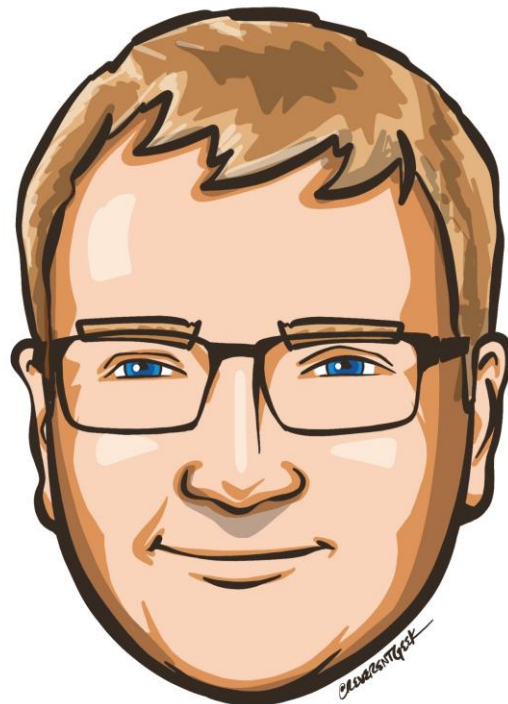


The background features a large, stylized letter 'A' composed of various shades of blue. The 'A' is formed by several overlapping triangular and quadrilateral shapes, creating a sense of depth and movement. The colors range from a light sky blue to a deep navy blue. The overall composition is modern and tech-oriented.

# Microsoft Azure Virtual Machine Types

So, who am I?

My name is Luke Murray  
Technical Consultant, and newly  
minted Microsoft MVP from  
Hamilton, and consumer of  
Microsoft technologies for more  
years than I would like to admit.



IT | PARTNERS



<https://linktr.ee/lukemurray>



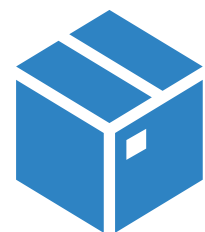
General Purpose



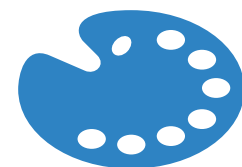
Compute Optimized



Memory Optimized



Storage Optimized



GPU



High Performance Compute

# Virtual Machine Sizes



General purpose VM sizes provide balanced CPU-to-memory ratio. Ideal for testing and development, small to medium databases, and low to medium traffic web servers.

A, Av2, B, Dsv3, Dv3, Dasv4, Dav4, DSv2, Dv2,  
Av2, DC, DCv2, Dv4, Dsv4, Ddv4, Ddsv4, Dv5,  
Dsv5, Ddv5, Ddsv5, Dasv5, Dadsv5

General Purpose

# General Purpose



High CPU-to-memory ratio. Good for medium traffic web servers, network appliances, batch processes, and application servers.

F, Fs, Fsv2, FX

Compute Optimized

Compute  
Optimized

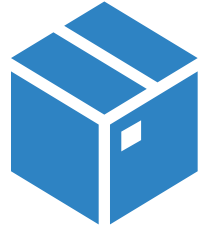


High memory-to-CPU ratio. Great for relational database servers, medium to large caches, and in-memory analytics.

Esv3, Ev3, Easv4, Eav4, Ebdsv5, Ebsv5, Ev4,  
Esv4, Edv4, Edsv4, Ev5, Esv5, Edv5, Edsv5,  
Easv5, Eadsv5, Mv2, M, DSv2, Dv2

Memory Optimized

# Memory Optimized

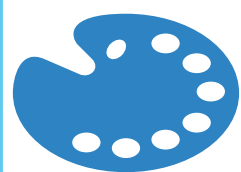


High disk throughput and IO ideal for Big Data, SQL, NoSQL databases, data warehousing and large transactional databases.

Lsv2, Lsv3, Lasv3

Storage Optimized

Storage  
Optimized



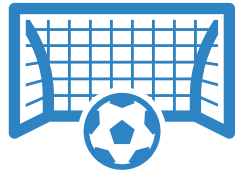
High disk throughput and IO ideal for Big Data, SQL, NoSQL databases, data warehousing and large transactional databases.

NC, NCv2, NCv3, NCasT4\_v3, ND, NDv2, NV,  
NVv3, NVv4, NDasrA100\_v4, NDm\_A100\_v4

GPU

GPU





Our fastest and most powerful CPU virtual machines with optional high-throughput network interfaces (RDMA).

HB, HBv2, HBv3, HC, H

High Performance Compute

High  
Performance  
Compute



### General Purpose

A, Av2, B, Dsv3, Dv3, Dasv4,  
Dav4, DSv2, Dv2, Av2, DC,  
DCv2, Dv4, Dsv4, Ddv4,  
Ddsv4, Dv5, Dsv5, Ddv5,  
Ddsv5, Dasv5, Dadsv5



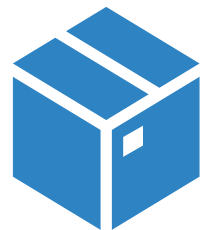
### Compute Optimized

F, Fs, Fsv2, FX



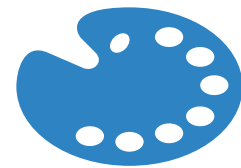
### Memory Optimized

Esv3, Ev3, Easv4, Eav4,  
Ebdsv5, Ebsv5, Ev4, Esv4,  
Edv4, Edsv4, Ev5, Esv5, Edv5,  
Edsv5, Easv5, Eadsv5, Mv2,  
M, DSv2, Dv2



### Storage Optimized

Lsv2, Lsv3, Lasv3



### GPU

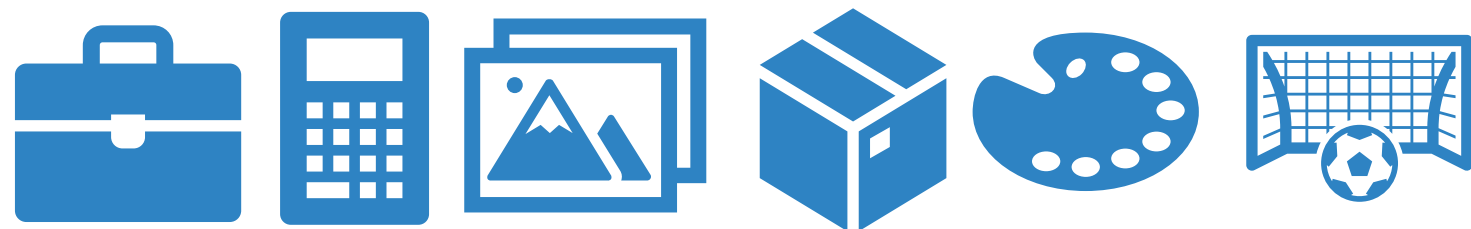
NC, NCv2, NCv3, NCasT4\_v3,  
ND, NDv2, NV, NVv3, NVv4,  
NDasrA100\_v4,  
NDm\_A100\_v4



### High Performance Compute

HB, HBv2, HBv3, HC, H

Options  
for all types  
of apps



With all these different Compute types, how do I know which is the right one?

Try the [Virtual machines selector tool](#) to find  other sizes that best fit your workload.

# Virtual Machine Selector



Thats great! Where can I find more information?

1. Virtual Machine documentation
2. Azure virtual machine sizes naming conventions
3. Azure subscription and service limits, quotas, and constraints

## Additional Resources