*\*\*NOTE\*\* - In reality, the resource level values (CPU, RAM, Storage Space) are ALWAYS specific to the solution being supported by a database(s).  These values should be interpreted to mean “at an absolute bare minimum” to support anything greater than hobbyist level.*

**RESOURCES:**

* **CPU**: 2 Cores
* **RAM**: 32GB

**SMK FOLDER:**

* C:\SMK
  + *This folder stores the SQL Server Service Master Key .dat file*
    - *FYI - Encrypted file, credentials stored in BeyondTrust*
  + *Default MSFT recommendation*

**STORAGE:**

* **D:** (*Installs*): 100GB
* **E:** (*Data*): 200GB
  + *Typical file types: \*.mdf, \*.ndf*
  + **NO SNAPSHOTTING**(*Do not quiesce drive as part of VM backup routine*)
* **F:** (*Log*): 100GB
  + *Typical file types: \*.ldf*
  + **NO SNAPSHOTTING**(*Do not quiesce drive as part of VM backup routine*)
* **S:** (*FileSharing*): 100GB
  + *Typical file types: \*.bkp, \*.dmp, \*.bak, etc.*
* **T:** (*tempdb* files): 150GB
  + **NO SNAPSHOTTING**(*Do not quiesce drive as part of VM backup routine*)

**DISK (I/O):**

* **NTFS AU size**: 64KB unit/block size
* **Partition Alignment Offset**: 1024KB

**(Domain) SERVICE ACCOUNTS**:

* **SVC\_SQL\_<*MACHINENAME*>** - Runs the SQL Server Database Engine Service
  + Grant Modify Access to E:, F:, S:, T: drives
  + \*\*Grant Delete Subfolders and Files access to E:, F:, S:, T: drives
    - *This permission is not granted by default when selecting "Modify".  The permission is present within the Advanced Security tab, and is necessary to perform file management tasks*
* **SVC\_SQLAGT\_<*MACHINENAME*>** - Runs the SQL Server Agent Service
  + Grant Modify Access to E:, F:, S:, T: drives
  + \*\*Grant Delete Subfolders and Files access to E:, F:, S:, T: drives
    - *This permission is not granted by default when selecting "Modify".  The permission is present within the Advanced Security tab, and is necessary to perform file management tasks*

**OPEN FIREWALL PORTS:**

**To enable communication between servers within our environment, inbound and outbound traffic should be allowed on the following ports by default:**

* + *On-Prem to On-Prem*
  + *On-Prem to Azure*
  + *On-Prem to AWS*
* + *Azure to Azure*
  + *Azure to On-Prem*
  + *Azure to AWS*
* + *AWS to AWS*
  + *AWS to On-Prem*
  + *AWS to Azure*

**TCP:**

* + 1433
  + 1434
  + 135

**UDP:**

* + 1434

**LOCAL ADMINISTRATORS**: