

(Before I start my explanation, I should note that the TCO tool appears to be broken. It was working this morning, but now I just get a blank last page—after “adjusting assumptions.” I tried chrome, safari, and Firefox, all the same results. Tried private mode in all 3 as well. I am attaching 3 screenshot for each page of the tool...including the final broken one)

There are 2 on-premise Window hypervisors and 4 VM’s in total that we need to consider (fileserver, web, app, and db).

— My 1st workload defined in the tool was for Servers. For this I am taking care of the web vm and app vm. I switched environment to be VM’s, changed the OS to linux (vm’s not the hypervisor. In all of my work history web/app servers were always linux), specified 2 vm’s, left Virtualization as Hyper-V (the hypervisors are Windows 2012). In my experience web/app servers can get by with 2 vCPU’s and 8GB of RAM. Memory always seems to be the 1st bottleneck, so I optimized by memory.

— My 2nd workload defined in the tool was for Databases. For this I am taking care of the SQL database vm. For “Source” I switched environment to be VM’s, changed license to be “standard” since this is a small shop, specified 1 vm’s, left Virtualization as Hyper-V (the hypervisors are Windows 2012). In my experience DB servers can get by with 4 vCPU’s and 16GB of RAM. Memory always seems to be the 1st bottleneck, so I optimized by memory. Instead of moving this to IaaS on Azure, I would prefer to use Azure’s PaaS SQL Database. I changed the Service Tier to General Purpose and gave 4 instance cores and 5GB of Disk. I removed backup storage (bad idea) but nothing was specifically called for backups on-prem, so want to get as close to apples to apples comparison.

— My 3rd workload defined in the tool was for Storage. For this I am taking care of the Fileserver vm. Instead of handling this with IaaS, I’ll just use Azure’s native abilities. So I selected a NAS/File share with 2GB capacity.

The last change I made was increasing the amount of network bandwidth consumed on-prem. 1GB is WAY too low. I changed that to 100GB (which is still probably a little too low).

I didn’t make any changes on the “adjust assumptions” page (although \$23/hr seems rather low for an “IT Administrator.”)

Looks like Microsoft doesn’t want me to see my cost savings :)

-Parker