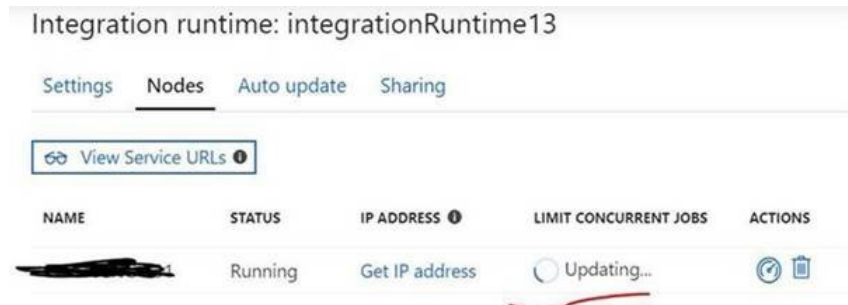


Updating max limit concurrent jobs hangs in SHIR

Last updated by | Veena Pachauri | Mar 8, 2023 at 11:10 PM PST

Issue - Customer trying to increase the limit concurrent jobs from the ADF UI and it just hangs as updating forever.

Customer Use Case - Customer Max concurrent jobs was set to 24 and he wants to increase the count so that jobs can run much faster. The minimum value that you can enter is 3 and the maximum value that can customer can enter is 32. customer increased the value from 24 to 32 and hit on update but the UI stuck on updating forever as you can see below. After we refresh we still saw the value as 24 and it never get's updated to 32.



Reason the issue was happening

Here are the formulas to calculate the maximum number of concurrent jobs that you can set for SHIR node :

1. $\text{taskCountBasedOnCpu} = \text{logicCoreCount} \leq 4 ? \text{logicCoreCount} * 4 : (4 + (\text{int})\text{Math.Log}(\text{logicCoreCount} - 3, 2)) * 4;$
2. $\text{workerProcessCountByMemory} = (\text{int})\text{Math.Max}((\text{availableMemoryInMB} + 512) / 1024, 4);$
3. $\text{workerProcessCount} = \text{Math.Min}(\text{workerProcessCountByMemory}, \text{taskCountBasedOnCpu});$
4. $\text{final Capacity} = \text{Math.Min}(\text{maxcapacityInPortal}, \text{MaxWorkerProcessCount} * 4);$

Formula's output with a customer value

1. In customer case, logicCoreCount is 4, so taskCountBasedOnCpu is 16.
2. Memory is 6GB at most after deducting the reserved physical memory , so workerProcessCountByMemory is 6.
3. workerProcessCount Is 6.
4. Final capacity that you can set is 24.

So in this scenario even the max value that you can see is 32 from the portal but you can't go beyond 24 because of your machine specifications.

FAQ's

Q1.What is logic core count & how can we find our machine's logic core count?

Ans - <https://www.top-password.com/blog/find-number-of-cores-in-your-cpu-on-windows-10/>

Q2. How to calculate the math.log?

Ans - https://www.rapidtables.com/calc/math/Log_Calculator.html

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