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CSEC.380.01

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10/04/2021

**I was unable to complete ACTIVITY 4’s bruteforcing, but I did create code to do so.**

**Is there certain information about the webserver that you can discern based on what files you can access?**

**Are there any ways to improve the speed of your scanner?**

To improve the speed of my scanner I could utilize a combination of more\_itertools.groups to add more processes to run threads with on the web crawler (I don’t think I need more than one process for writing). In addition, I could find an alternative to Manager() of multiprocessing, or perhaps find a faster data type that is currently supported, to share across my processes. Currently I am using lists for parameters shared between processes, which is inefficient compared to sets, but unfortunately I don’t believe Manager() can support python sets. I also would like information on common path usage so I could increase my success rates.

**How can response codes be used in order to more efficiently search your site?**

By forming conditionals based on response codes I can determine without parsing any body my permission level and if the path exists. Rather than parsing through the entire body this is much more efficient.

**Are there any common naming patterns that you might expect would yield positive results**

I would expect common login-type words such as user/, login/ signin/, signout/ etc. and media-type words such as video/, media/, etc. to yield positive results.