

Homework

due October 24, 2024

Read:

E. Brewer, "Lessons from Giant-Scale Services," IEEE Internet Computing, July/Aug. 2001, pp. 46-55.

E. Brewer, "Towards Robust Distributed Systems," Proc. 19th Ann. ACM Symp. Principles of Distributed Computing (PODC 00), ACM, 2000, pp. 7-10; <https://people.eecs.berkeley.edu/~brewer/PODC2000.pdf>

Brewer: CAP Twelve Years Later: How the "Rules" Have Changed
<https://www.infoq.com/articles/cap-twelve-years-later-how-the-rules-have-changed/>

D. Abadi, "Problems with CAP, and Yahoo's Little Known NoSQL System," DBMS Musings, blog, 23 Apr. 2010;

Then, ***in your own words***, explain (1) what the components of CAP stand for, (2) why there is a two out of three rule, and (3) how CAP can be modified to still serve as a guideline for distributed systems reliability. Each question takes at least a paragraph.

To find copies of the articles, you should use Google scholar. I understand that you need to be logged into Marquette to access for free the ACM and IEEE repositories.