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document Experiences designing and building a PRAGMA Cloud Scheduler [Short Paper]

3

Shava Smallen

abstract PRAGMA is a community of research scientists and institutions from around the Pacific Rim that work together to enable scientific expeditions in areas of biodiversity distribution and lake ecology. Over the past four years, the technology focus for PRAGMA partners has shifted to cloud and software defined networking as enabling technologies. During PRAGMA 27 meeting, the Resources Working Group discussed rebooting the persistent PRAGMA Testbed as a way for sites to contribute and use shared resources, leveraging technologies such as PRAGMA Boot, Personal Cloud Controller (PCC), and virtual network overlays (i.e. IPOP and ViNe). To make PRAGMA resource sharing easier, a lightweight scheduler was proposed and discussed as a way to enable access to the resources and to manage resources reservations. This short paper discusses the design process and initial prototype of a simple cloud scheduler for PRAGMA.