

Digital Inequalities in the Heartland: Exploring the Information Security Experiences of Marginalized Internet Users

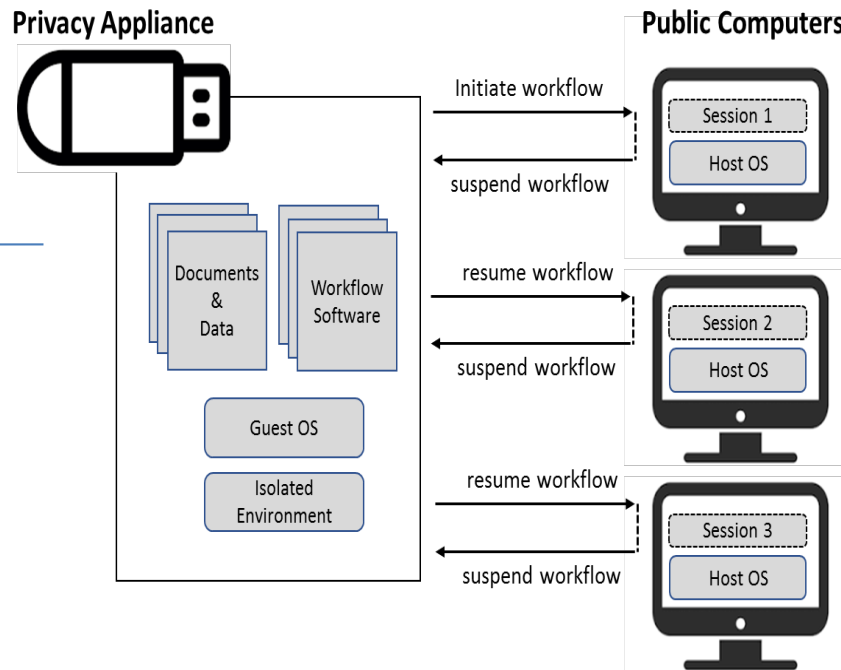


Challenge:

Address privacy and security threats/computing challenges of the practically “disconnected,” those economically poor and vulnerable who rely on public libraries for computing needs and broadband access

Solution:

Following extensive qualitative research on patrons’ needs, skills, and experiences we developed the Public User Privacy and Security (PUPS) appliance: An isolated, virtual computing environment on a USB stick provides users a safe, functional, seamless, computing experience from session-to-session.



Intellectual Merit:

Interdisciplinary research generating new scholarship on digital privacy, trust, data-veillance, and informal STEM education for the underserved; PUPS appliance involves low-level system engineering contributing to the open-source virtualization community and pioneers an understudied threat model

Broader Impact:

Inexpensive and scalable technology that may be adopted widely to address security threats of the underserved. Contributes to a secure and trustworthy cyberspace; advances broad participation in computing and informal STEM education through collaborations with staff and users; and enhances opportunities and infrastructure for research and education at our university

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