

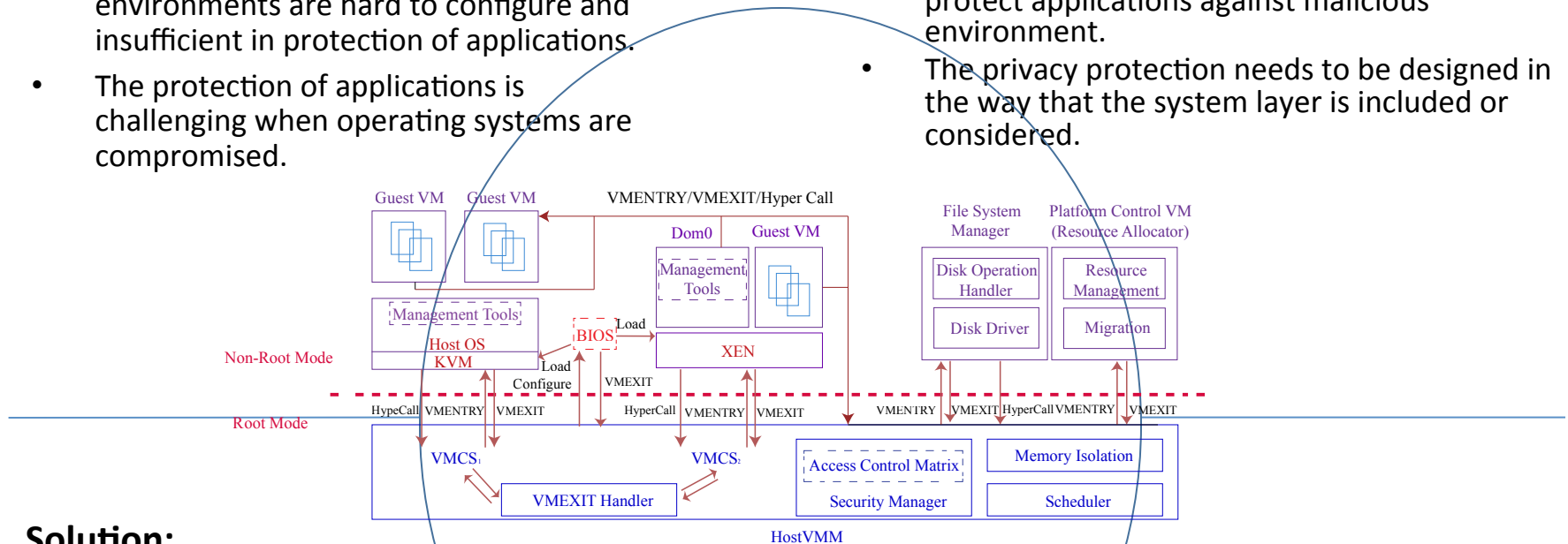
Towards Agile and Privacy-Preserving Cloud Computing

Challenge:

- Current cloud platforms/virtualization environments are hard to configure and insufficient in protection of applications.
- The protection of applications is challenging when operating systems are compromised.

Scientific Impact:

- The project provides new mechanisms to protect applications against malicious environment.
- The privacy protection needs to be designed in the way that the system layer is included or considered.



Solution:

- The protection mechanisms developed in the project uses virtualization layer designs or processor supported isolations.

Broader Impact:

- The developed techniques can greatly improve the security of cloud platforms and virtualization environments.
- 1 postdoc scholar and 3 Ph.D. students are trained through the project.

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