

Cybersecurity Research Acceleration Workshop and Showcase

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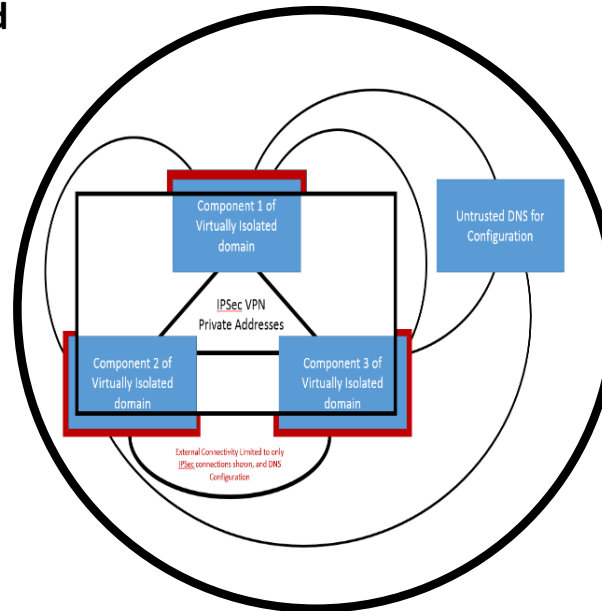
Quad Chart for: Distributed Virtually Isolated Domains

Challenge:

- Enable rapid deployment of distributed applications with limited attack surface from the Internet.
- Provided containment from exfiltration and subversion.
- Protect Internet from student experiments

Solution:

- Dynamic IPsec deployed VPN over leaf nodes (no permanent nodes)
- Configuration/establishment of VPN uses a DNS dynamically for configuration.
- Nodes in the domain run special virtual machine, for bare metal OS that establishes tunnels for communication and blocks all else.



Value proposition:

- Inbound isolation for protected applications, dependent upon security of the “hosts”.
- Reduced attack surface for subversion or exfiltration.
- Outbound application isolation based on security of the “guest” or “hypervisor”.

What we need to TTP

- Distributed applications that don't require exchange of information outside the isolated components.
- Classes looking to provide isolated environment for students utilizing resources on students and instructors own computers.

Contact us

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