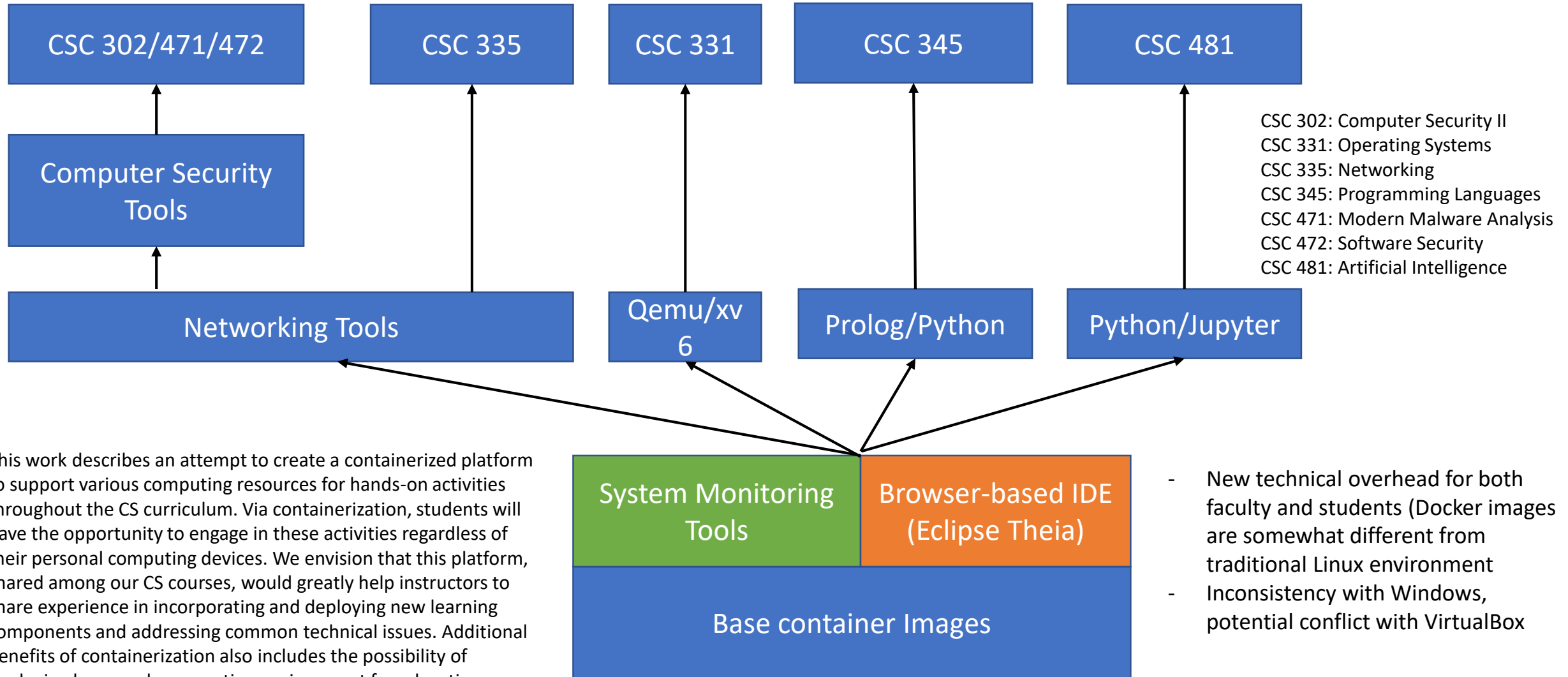




# Containerized CS Learning Environment

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This work describes an attempt to create a containerized platform to support various computing resources for hands-on activities throughout the CS curriculum. Via containerization, students will have the opportunity to engage in these activities regardless of their personal computing devices. We envision that this platform, shared among our CS courses, would greatly help instructors to share experience in incorporating and deploying new learning components and addressing common technical issues. Additional benefits of containerization also includes the possibility of deploying large-scale computing environment for education, whether on local, federal, or industry cloud resources

- New technical overhead for both faculty and students (Docker images are somewhat different from traditional Linux environment)
- Inconsistency with Windows, potential conflict with VirtualBox