BACKGROUND
Founded in 1820, Indiana University has over 115,000 undergraduate and graduate students, 20,000 faculty members and eight campuses located throughout the state Indiana. The University’s vision is provide their students with the best possible education experience and a significant part of delivering this vision is resourcing a world-class IT team.

CHALLENGES
Indiana University is vibrant and growing, and like most schools is facing the financial challenges of higher education. Offering a diverse curriculum for students on campus and remote to campus meant that the IT team needed to meet the demand for more applications faster. Equally important was the need to protect student and employee data by complying with regulatory standards like PCI and HIPAA. From a technology perspective, applications were Java based, with custom scripts and were running on virtual machines. This was proving to be rigid, labor intensive and costly.

The IT team decided to address the challenges with a plan to modernize the way applications were developed and managed. Challenges included:

- Adopt microservices based architecture for new applications
- Prioritize data protection and compliance with standards in how they were developing applications
- Select tools that were flexible
- Consider the cost of the tools and the changes required to the operating environment

SOLUTION
Indiana University selected and implemented Docker Datacenter (DDC) in their on premises datacenter to gain the security and flexibility needed for managing an agile application environment. DDC has improved the speed of delivering new applications, but has also enabled IT to secure the production environment. No more concerns about anyone “accidentally” impacting application availability.
“Having the ability to implement controls that minimize errors to applications in production is important. We need to ensure that production applications adhere to policies and processes and the role based access control is critical to clean audits. Docker Datacenter role based access control is really good.”

– Eric Westfall, Enterprise Software Architect, Indiana University

Indiana University is benefiting from Docker Datacenter in the following ways:

- University developers use DDC to improve the speed of developing and delivering new applications.
- The IT ops teams leverage DDC to easily provision Docker hosts and deploy applications faster with greater reliability and efficiency.
- DDC automates manual processes, reducing errors.
- Direct integration with LDAP servers and role based access control (RBAC) allow for enhanced security around when running containers in production.

ABOUT DOCKER

Docker is the leading software container platform. Developers use Docker to eliminate “works on my machine” problems when collaborating on code with co-workers. Operators use Docker to run and manage apps side-by-side in isolated containers to get better compute density. Organizations use Docker to build agile software delivery pipelines to ship new features faster, more securely and with confidence. www.docker.com/government