

# Virtual Apps, Desktops, and Labs, for a [new normal] Digital Campus

Providing software to students and instructors anytime, anywhere, on any device.

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## About Our Digital Campus



Students, faculty, and staff, succeed by seamlessly integrating technology into their teaching, learning, and research.

**Objective 1** - Provide a digitally rich ecosystem that encourages access to technology.

**Objective 2** - Position faculty and students for success by addressing access and affordability of teaching and learning resources.





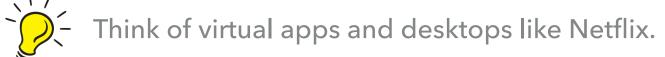


#### What if...

- Faculty, staff, and students could have access to [licensed] software without having to physically be on campus or in a computer lab?
- Software didn't need to be installed on devices to run?
- We didn't need to spend money on growing our physical labs?
- They could access software seamlessly, anytime, anywhere, and from almost any device?
- CTS could easily provide software to everyone almost instantly upon request?
- We could track software usage and monitor use trends to ensure software and hardware infrastructure investments are being used to their fullest potential?

"Application virtualization is software technology that encapsulates computer programs from the underlying operating system on which it is executed. A fully virtualized application is not installed in the traditional sense, although it is still executed as if it were."





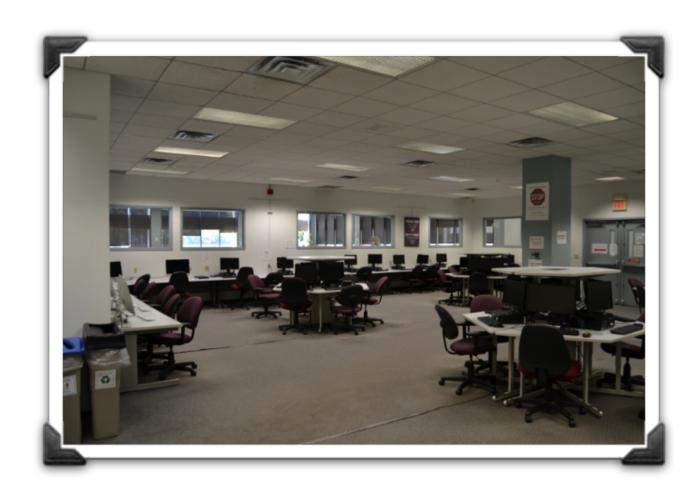




## What if...

Lab spaces go from this:











#### To this...



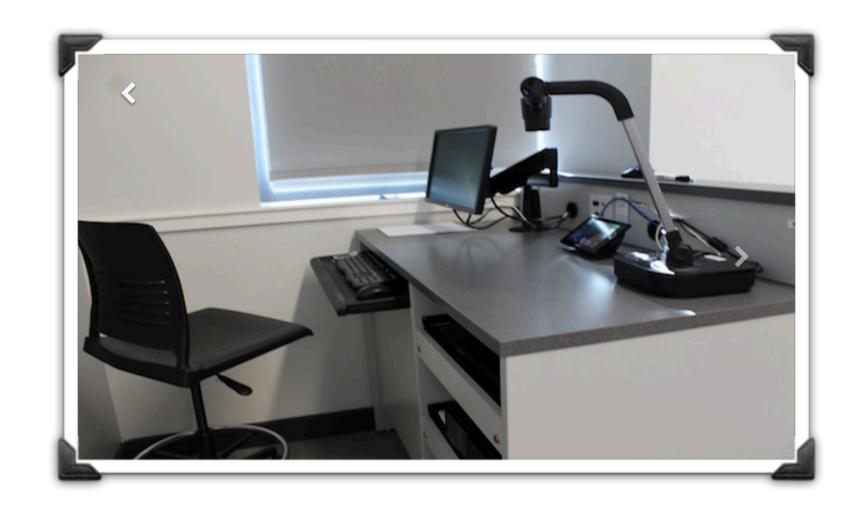






## What if...

#### Classrooms go from this:



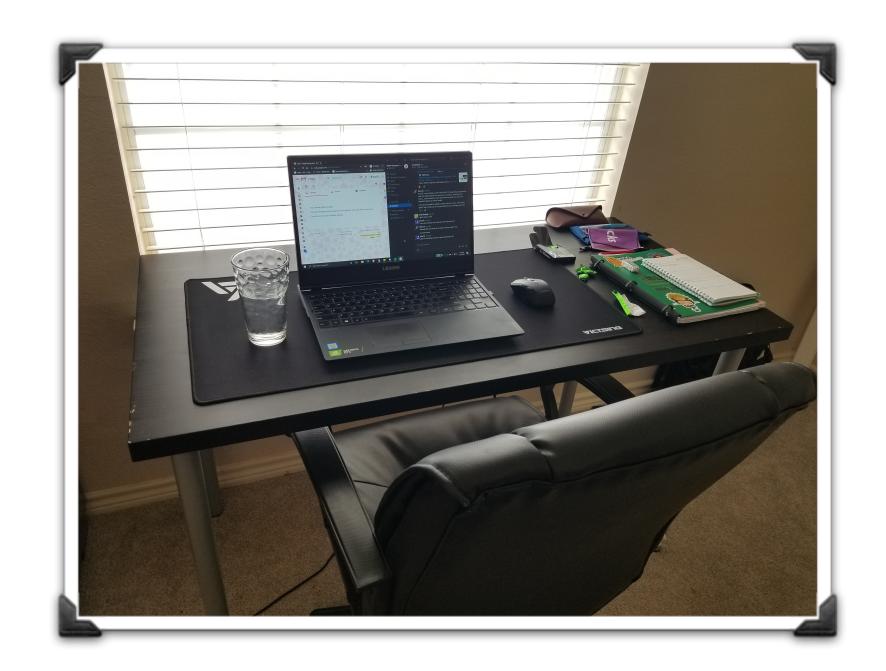


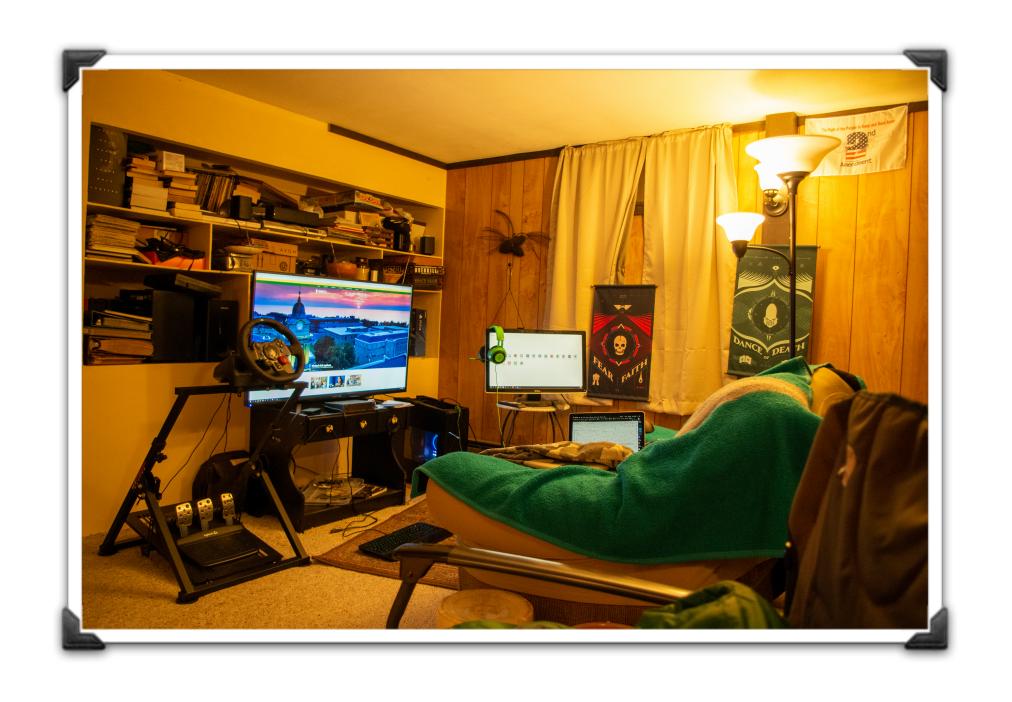






#### To this...





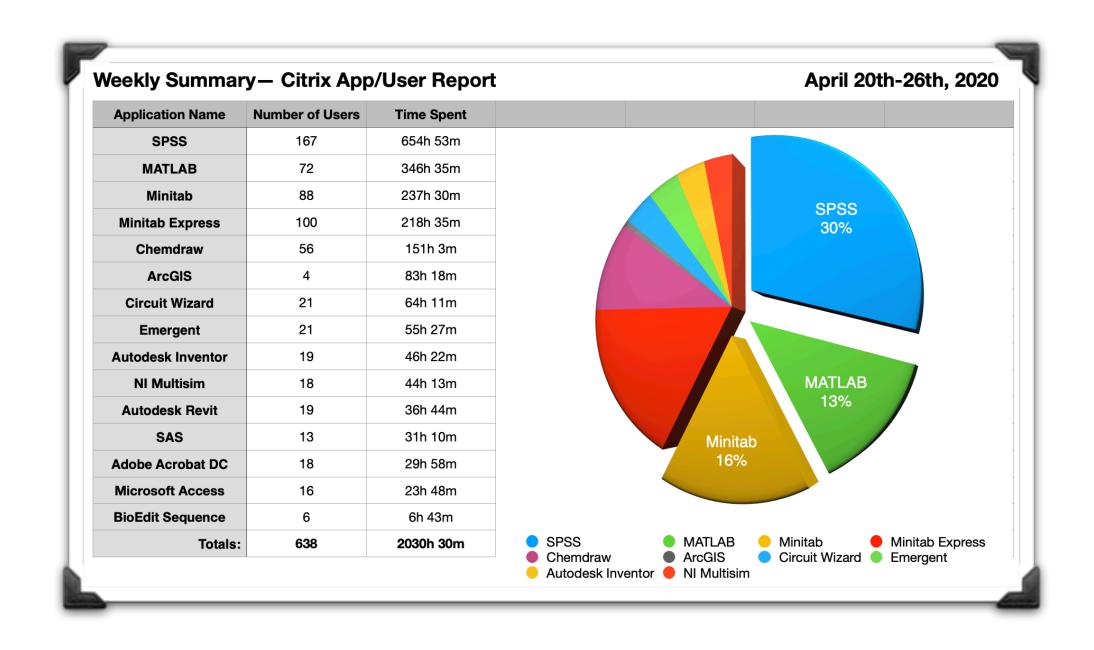






#### Where we are now:

- Virtualized over 40 Microsoft Windows apps in our environment.
- ▶ All ready in our labs and ATCs [podium computers].
- Device agnostic.
- Keep current with security updates.
- ▶ Available on and off campus with no additional software\* or VPN.
- Near to zero down time. (thanks networking team)







#### Where we are now:

#### What Faculty have said

"The access to Minitab and SAS from the Web browser was very helpful to the students and the faculty.

The students were able to do their assignments from their own computers (without having to go to the lab especially during the night time).

We, the faculty had the advantage of checking our Minitab and SAS programs (from our home) while preparing for our classes that met the next day."

--Ampalavanar Nanthakumar, Faculty, Math Department





### Where we are now:

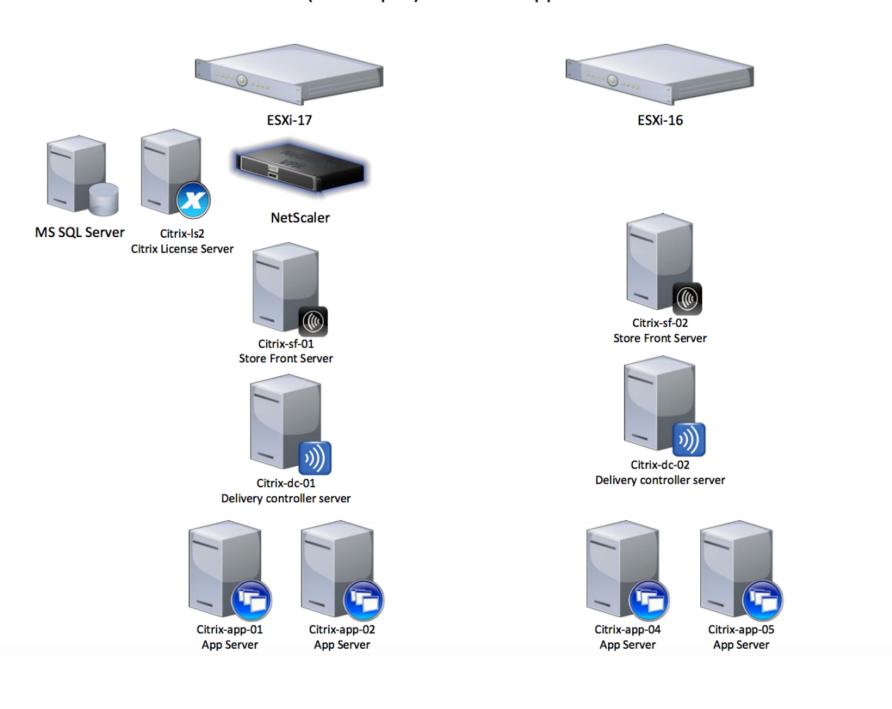






https://citrixapps.oswego.edu

#### Internal (on campus) Published Apps Citrix Environment





You must have a valid LakerNet ID.



## Where we need to be in the future [now]:

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- Virtualized lab environments.
- ▶ Be able to dynamically grow VDI or WDS with our needs.
- ► Continue to improve customer user experience.
- Reduce software and hardware costs based from software analytic usage reports. \*Thin Client and repurposed devices.
- Allow for BYOD to re-shape our physical lab spaces





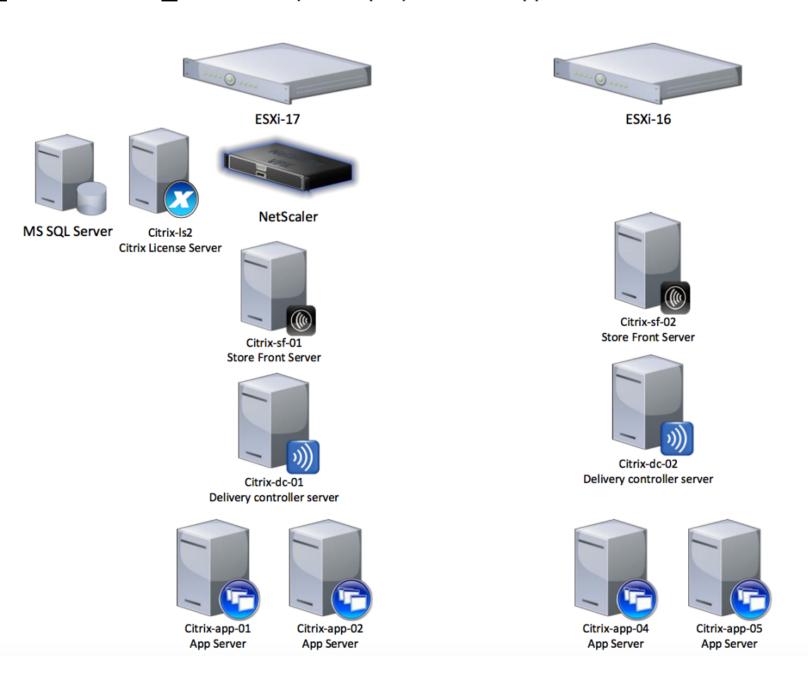
## Where we need to be in the future [now]: Internal (on campus) Published Apps Citrix Environment







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## How to get there:

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- ▶ Be able to dynamically grow VDI or WDS with our needs.
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Demo? Questions?

