Machine Data Alchemy: Turning Digital Exhaust into Campus Gold

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Clemson University

Second largest university by student population in South Carolina.



- 22,000 undergraduate and 5,000 graduate students
- 80 undergraduate majors and 110 graduate degree programs
- Current Division I Football National Champion, ranked #2 as of 10/10/2019. Twice in the last four years.



Some IT oriented numbers from 2018

One of the country's most selective public research (R1) universities



- ► 1.4 million unique network connections
- 37.6 petabytes hosted storage
- 8.9 million student print jobs
- 118.8 million Palmetto Cluster (HPC) compute hours
- Clemson's Palmetto Cluster exceeded 1 petaflop (1,000 teraflops) for the first time in late 2018, continuing its Top 5 rank in supercomputers at a United States public university

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Some Challenges

- Little or no visibility of data in many areas, including operations, security, customer support
- Data is siloed so no cross group/department visibility
- Data being stored without being analyzed
- Data governance / Data access

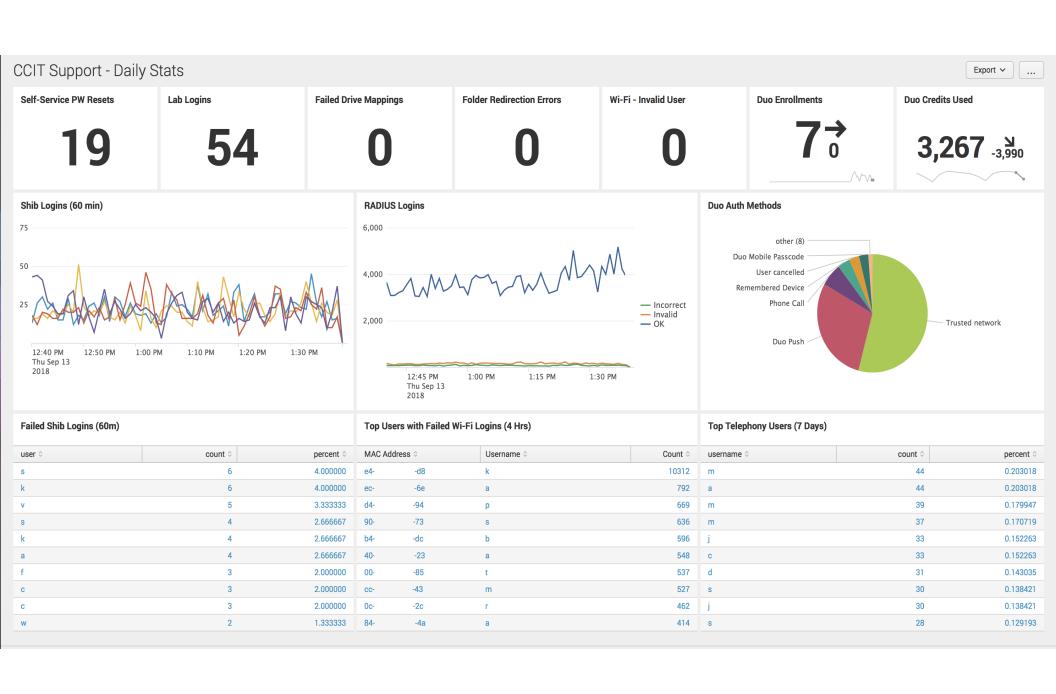




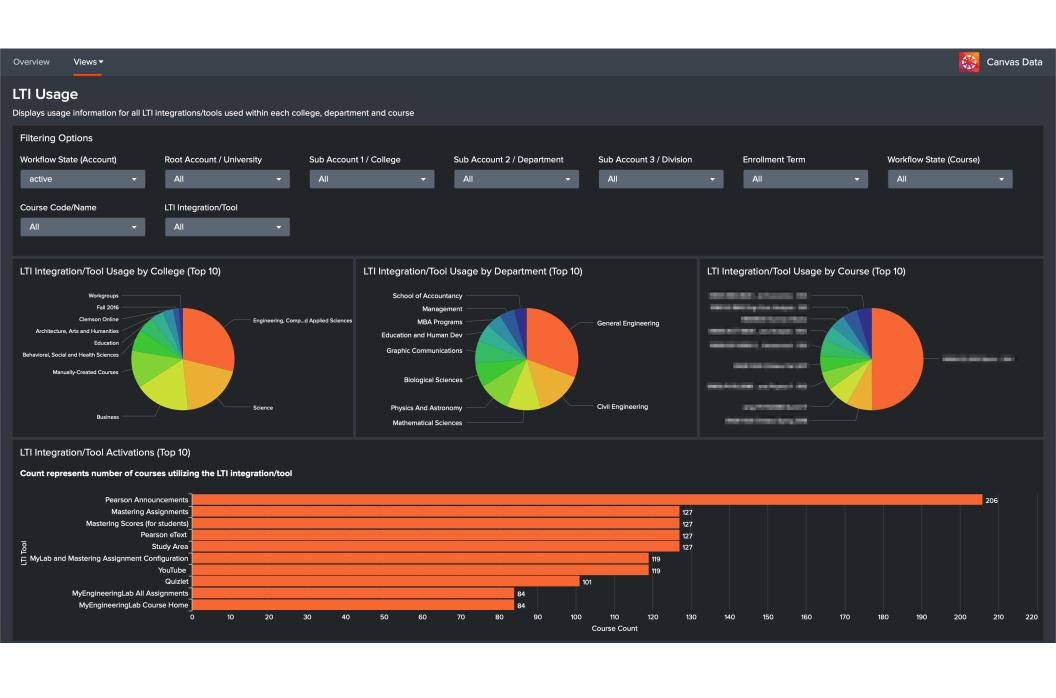
Some Solutions

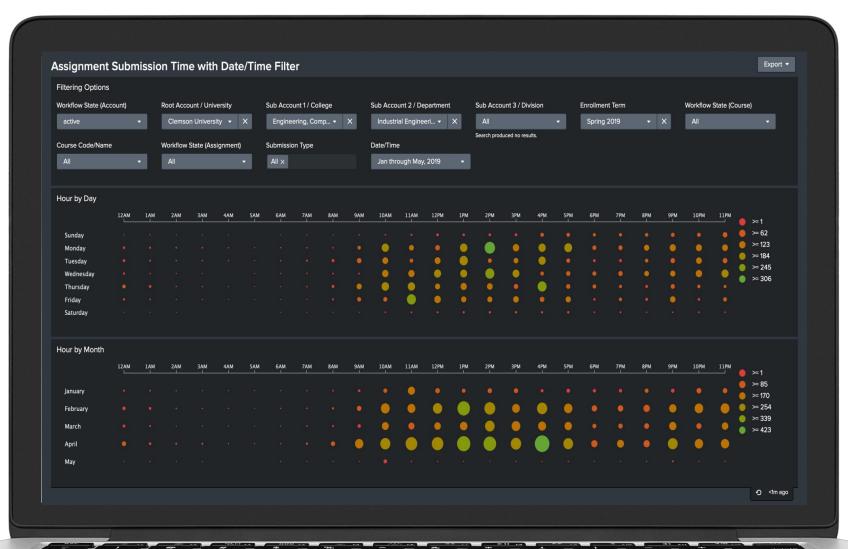
What was our journey?

- ▶ What was implemented?
- Who was involved and what was the new process?
- Was the challenge met and achieve the desired outcome?

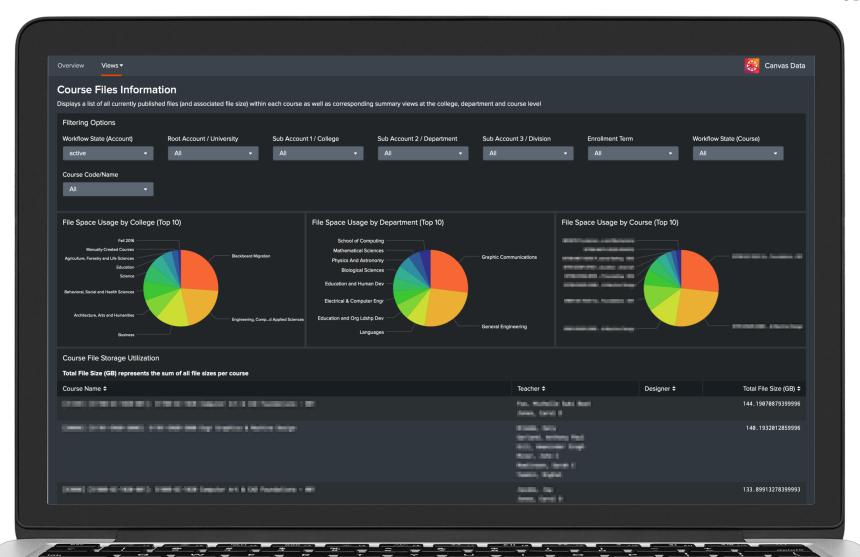


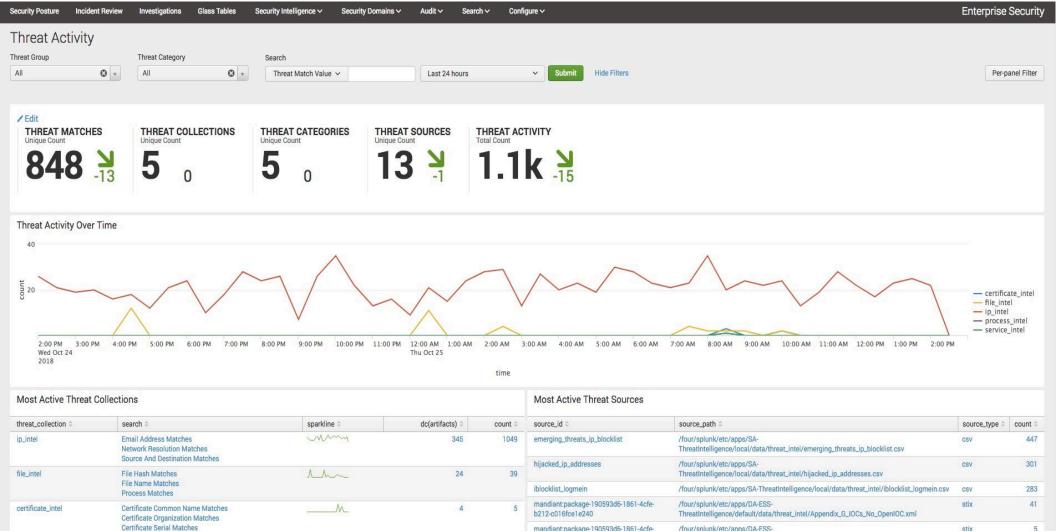
Overview Views ▼							🤔 Canvas Data
Published & Unpublish Total Count of Published/Active Course		ve Courses split by Account					
Filtering Options							
Enrollment Term All	Root Account / University All	Sub Account 1 / College	Sub Account 2 / Dep	eartment •	Sub Account 3 / Division All		
	14,96 Published Courses	54			•	16,334 Unpublished Courses	
Account Name \$						Active Courses \$	Inactive Courses \$
Academic Success Center						81	36
Aerospace Studies						15	20
Agricultural Sciences						102	80
Animal & Veterinary Sciences						148	84
Art						66	62
Bioengineering						192	220
Biological Sciences						588	419
Blackboard Imports						0	0
Blackboard Migration						115	3,823
CAFLS Asso Dean for Aca Affairs						1	1
CONCERT						50	0
Campbell Grad Engr Program						77	103
Canvas Training Course						7	0
Chemical & Biomolecular Eng						66	246
Chemistry						238	442
Civil Engineering						241	293
Clemson Online						26	0



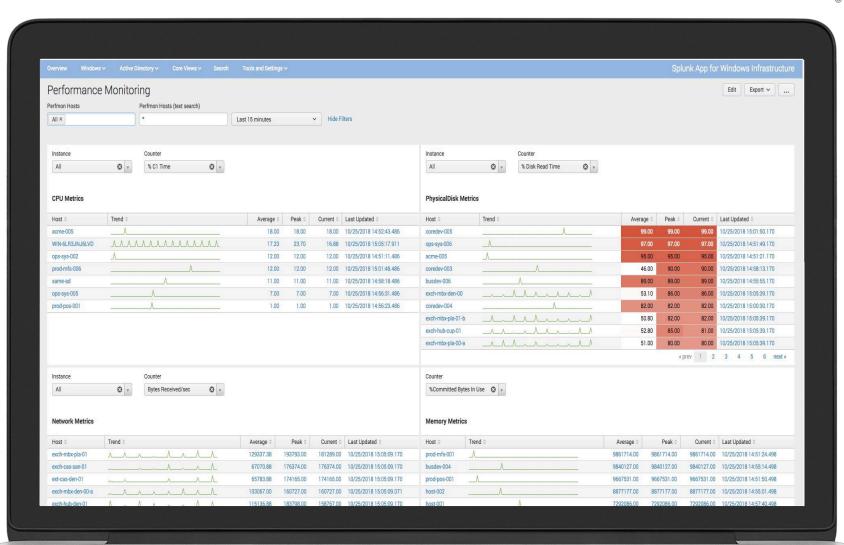






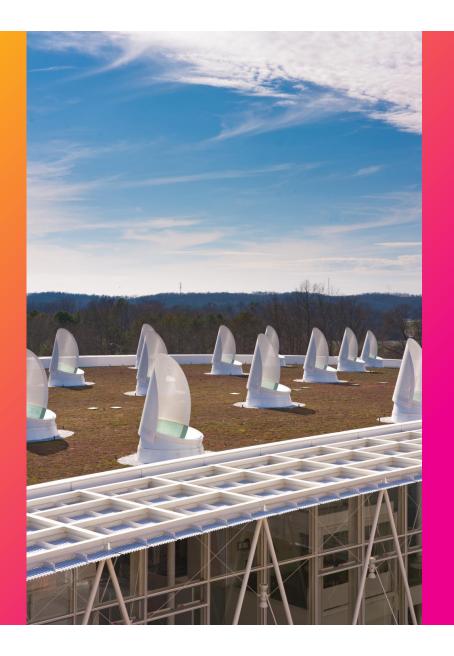












Solutions Recap

- Canvas
 - Insights into LMS activity and usage
- Security Operations
 - Flexible and proactive security posture
- ► Infrastructure Operations
 - Earlier warning for prevention
 - Faster root cause analysis
- Customer service
 - Increased visibility for more rapid resolutions



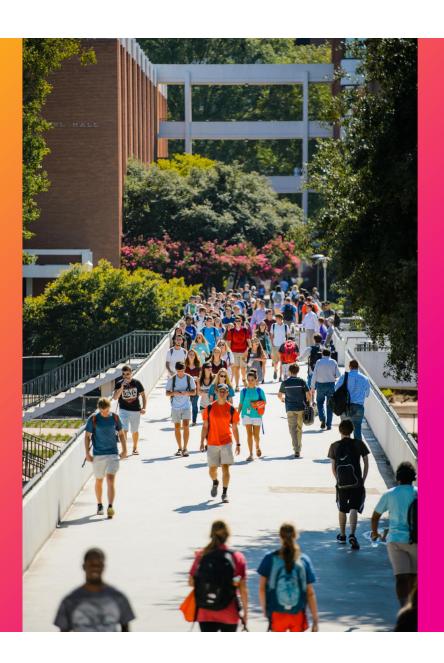
Outcomes

For these three use cases



- How did this support or enhance the mission?
- Cost savings or other benefits?
- Unanticipated benefit / side effects?





On the Horizon

What is next?

- ▶ Enhancing these solutions?
- ▶ Other areas of interest?

Key Takeaways

These outcomes are achievable!

- 1. Executive buy-in is critical to success.
- 2. Success also requires input from people who understand the data.
- 3. Data can be offered to more groups without providing them access to the core applications.



Q&A

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Thank You!