

# MSA Practicum Security



(This practicum team is in trouble for letting the MSA  
photographer capture their laptop screens during a meeting)

# Reviewing Our Previous Security Class

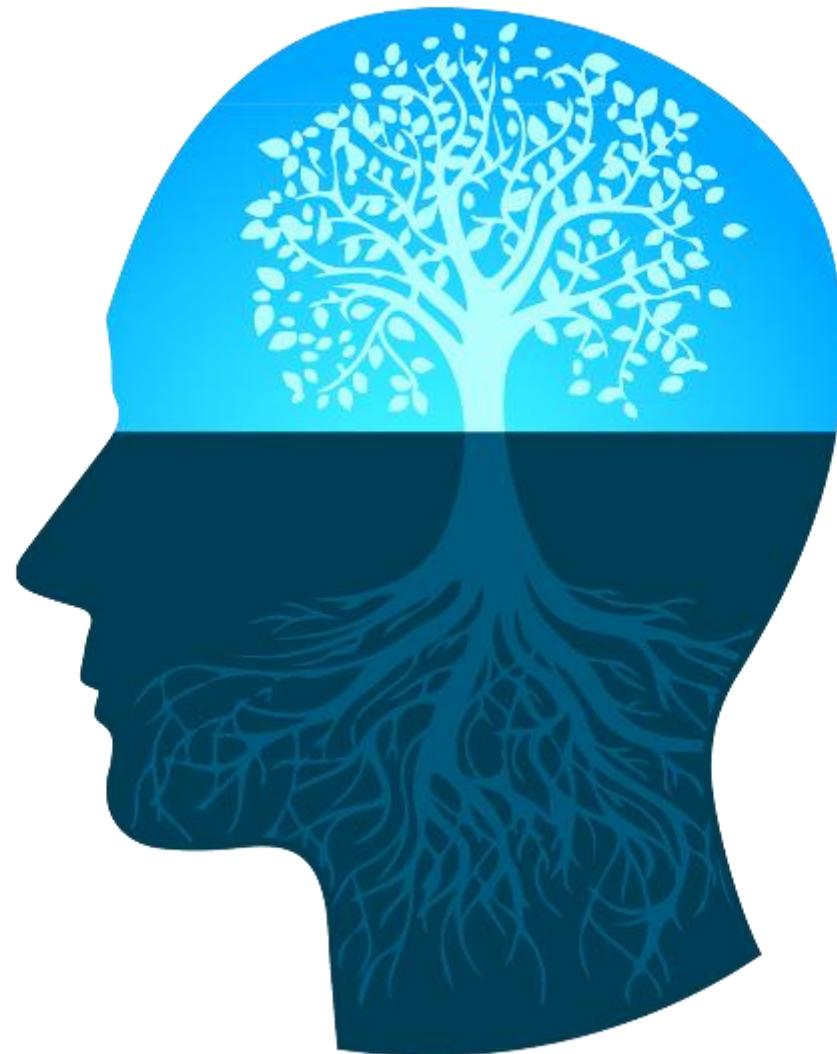
# Understand the Landscape



# Lock the Door

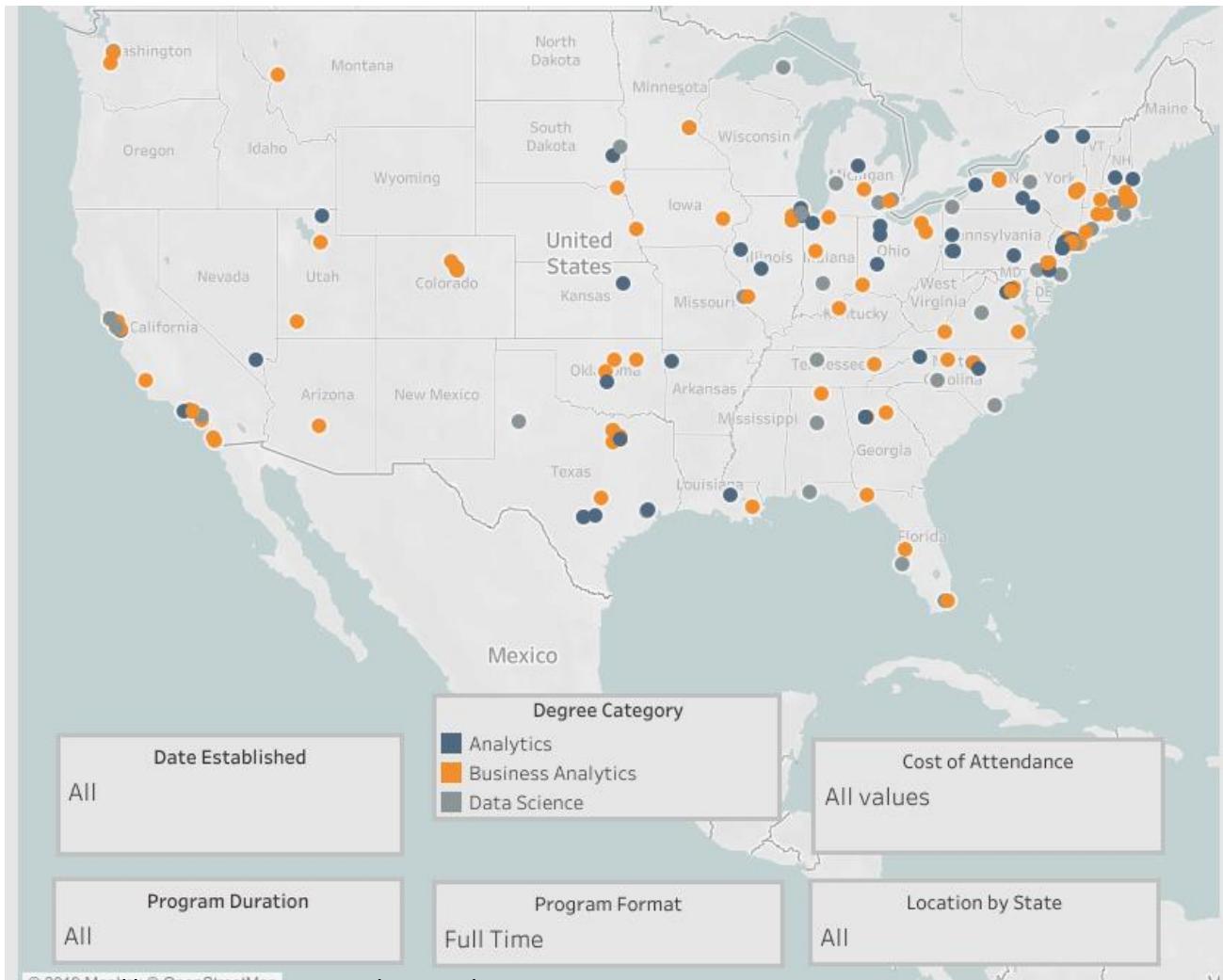


# Update Your Mindset





# There are a lot of MSA programs...



How many MSA's have a similar  
practicum?

?

How many MSA's have a similar  
practicum?

?

(Just a few: U. Tennessee and I forgot who else)

How many MSA's have a similar  
practicum?

?

(Just a few: U. Tennessee and I forgot who else)

How many MSA's have a similar  
practicum?

?

(Just a few: U. Tennessee and I forgot who else)





Here are our goals...



Here are our goals...



- Top priority: protect sponsor data

# Here are our goals...



- Top priority: protect sponsor data
- Follow IAA practicum security policy



# Here are our goals...



- Top priority: protect sponsor data
- Follow IAA practicum security policy
- Gain professional experience



# Here are our goals...



- Top priority: protect sponsor data
- Follow IAA practicum security policy
- Gain professional experience
- Never have NDA content in your personal possession (except paper notes we will shred at the end.)



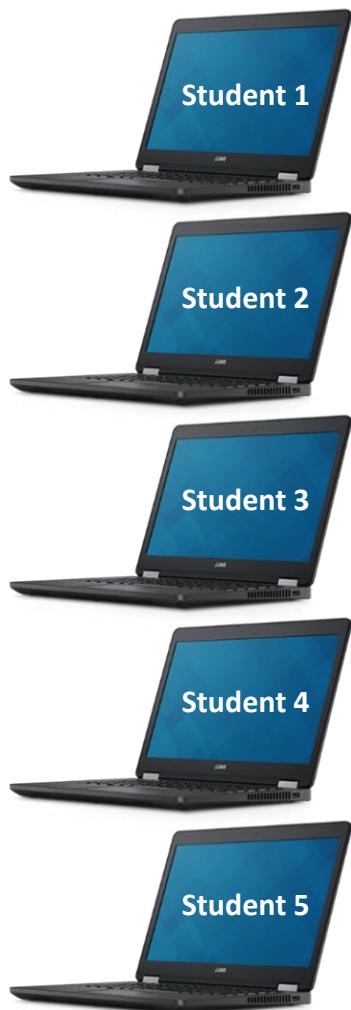
# Where does this data reside?



# Let's look at Practicum architecture...

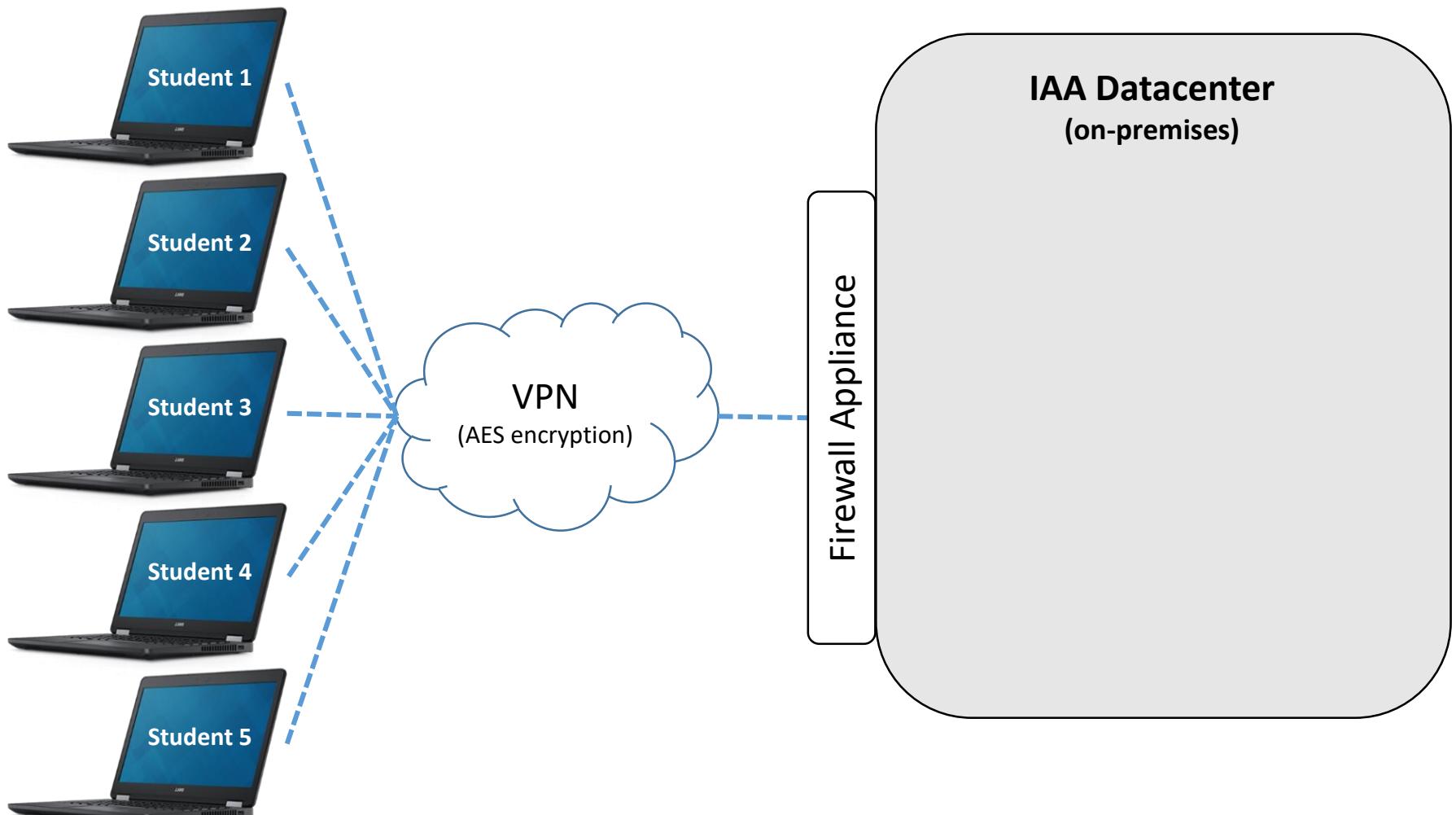
Remember the summer project?  
It's similar, with more security controls.

# Let's look at Practicum architecture...



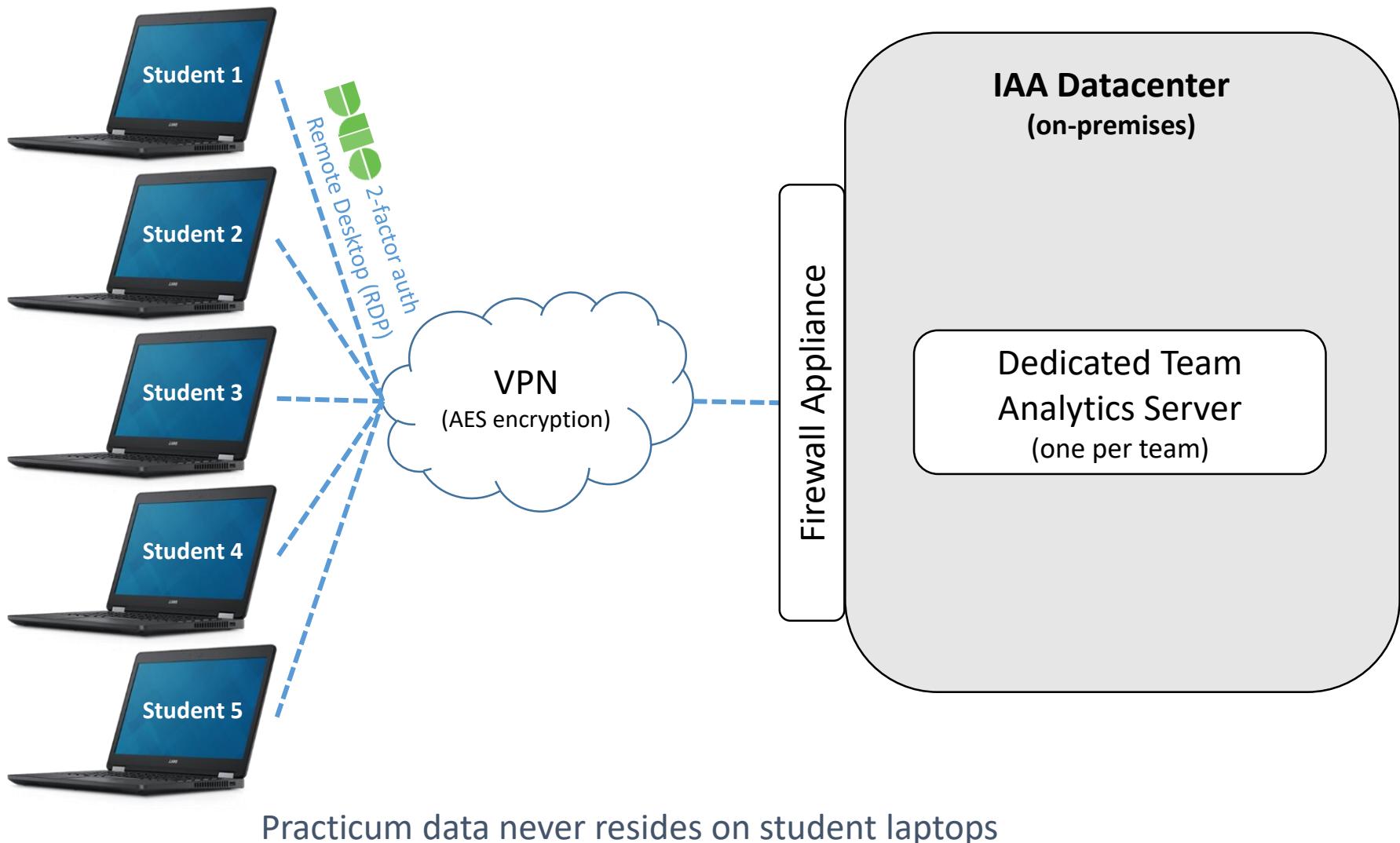
Practicum data never resides on student laptops

# Let's look at Practicum architecture...

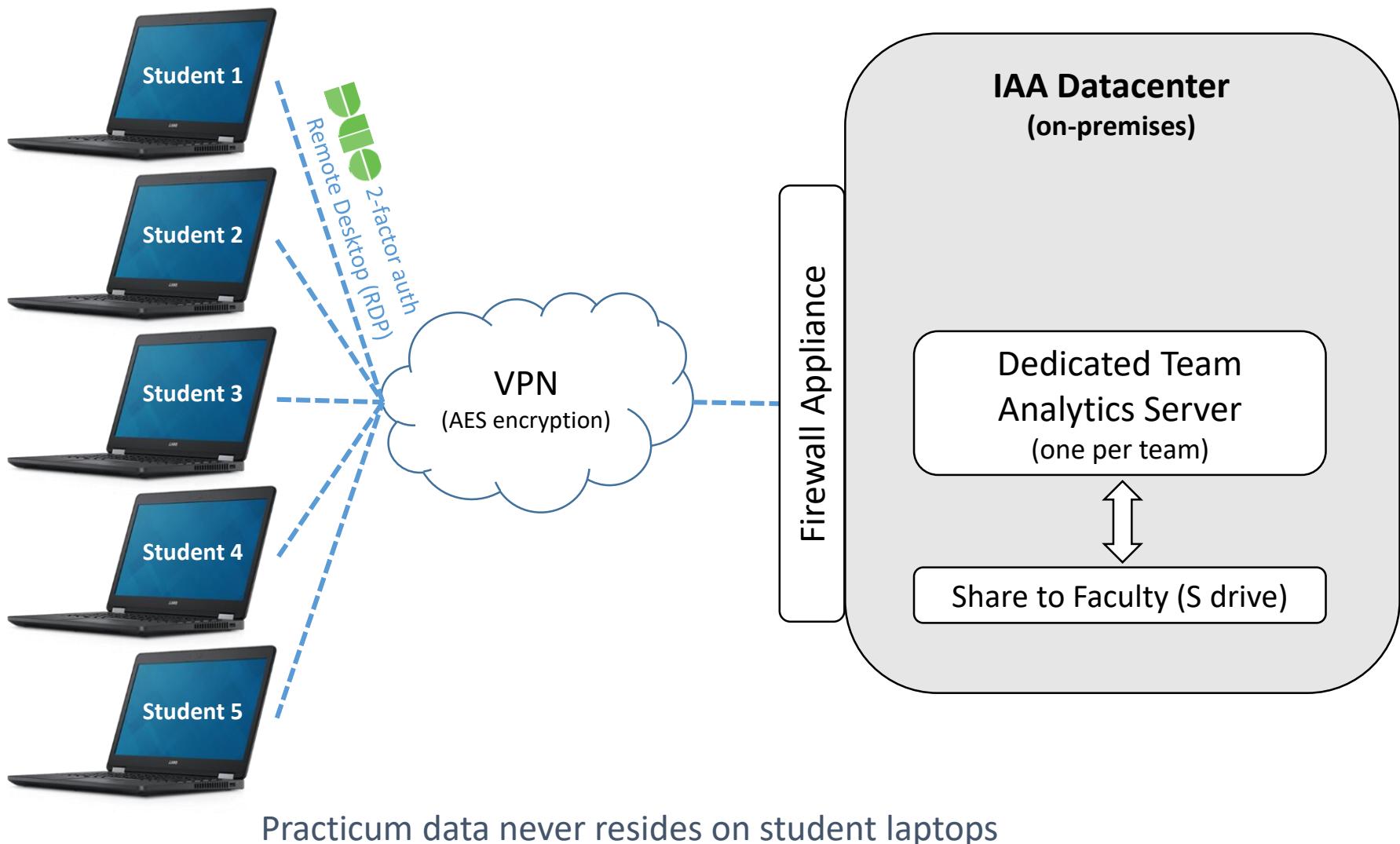


Practicum data never resides on student laptops

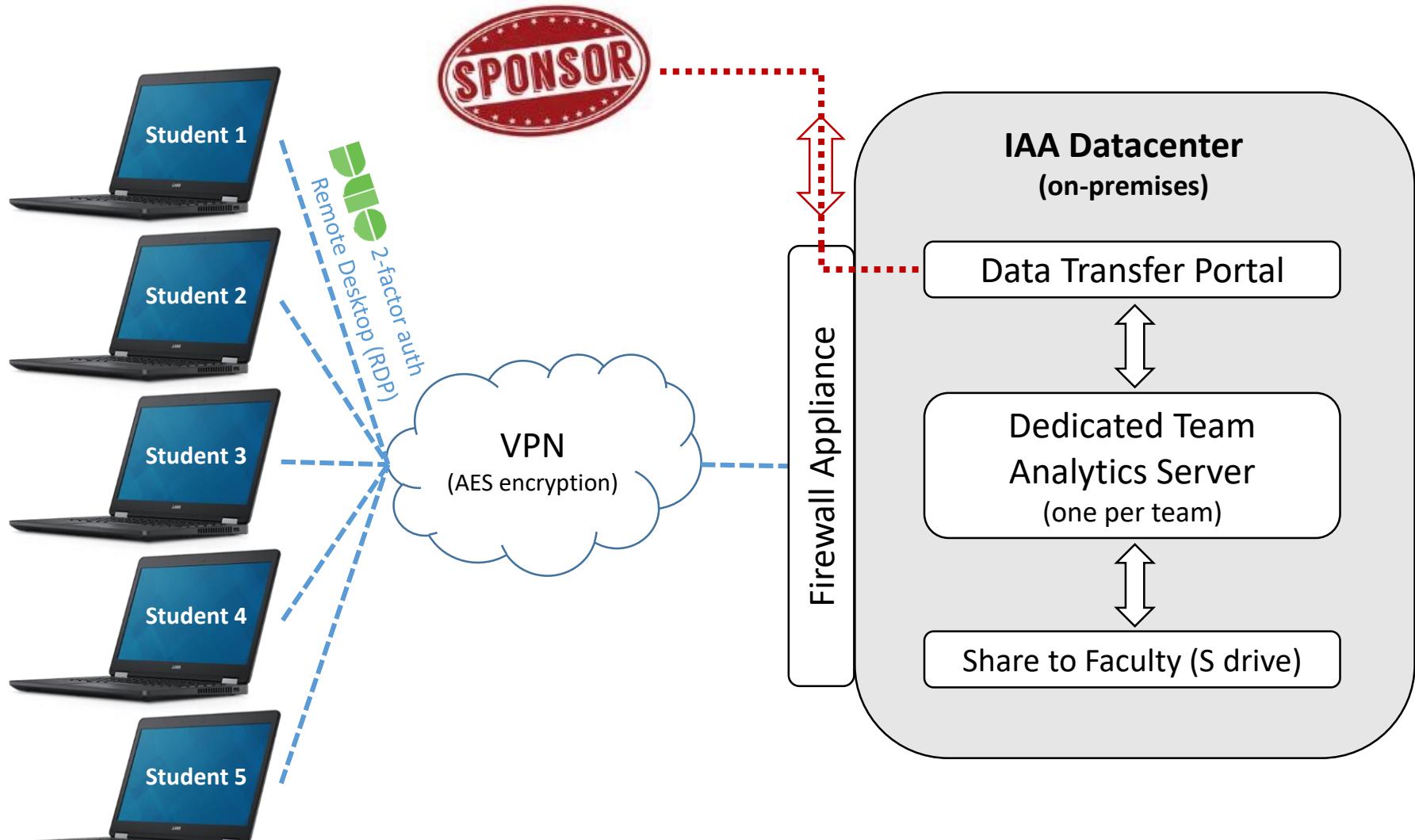
# Let's look at Practicum architecture...



# Let's look at Practicum architecture...

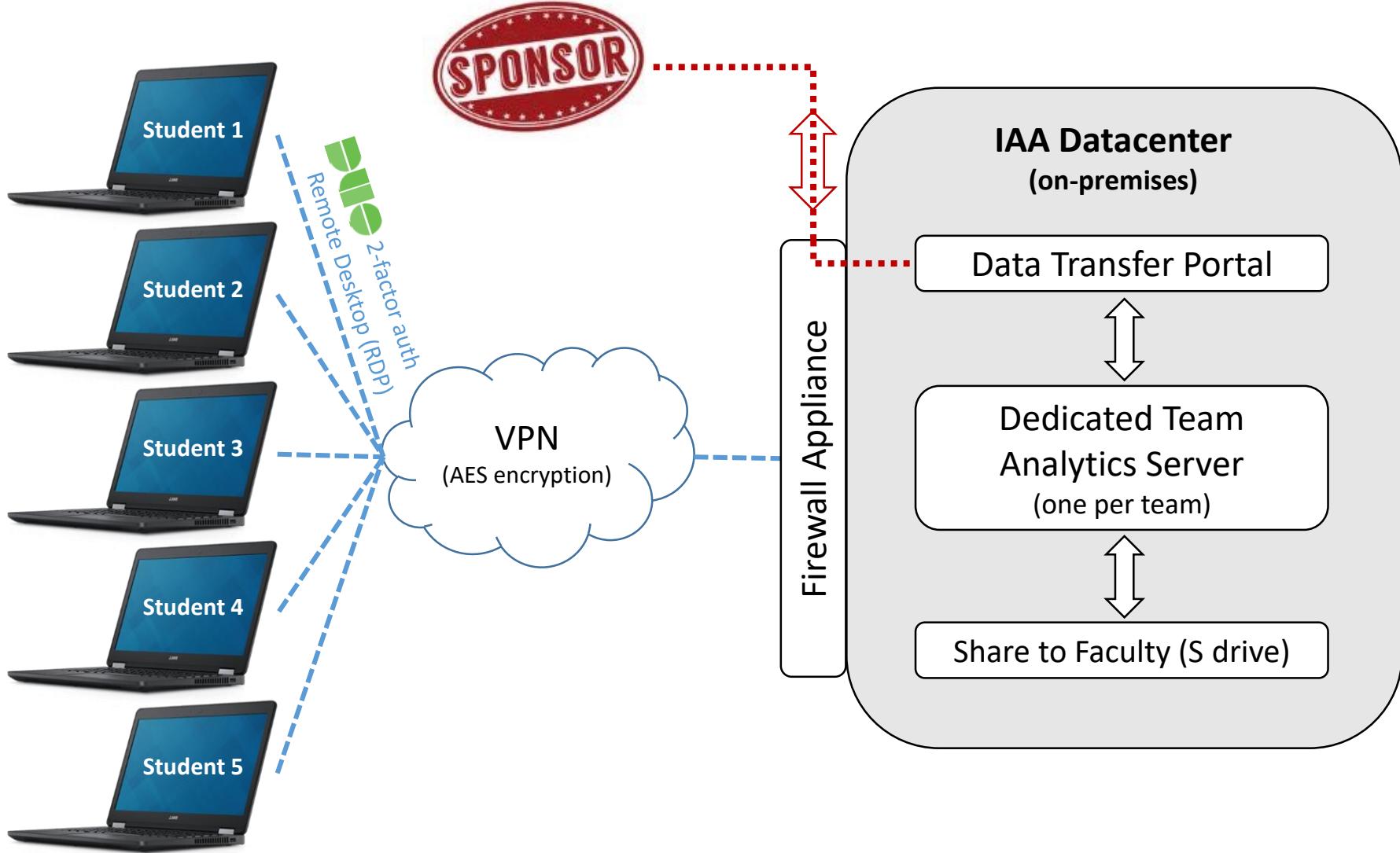


# Let's look at Practicum architecture...

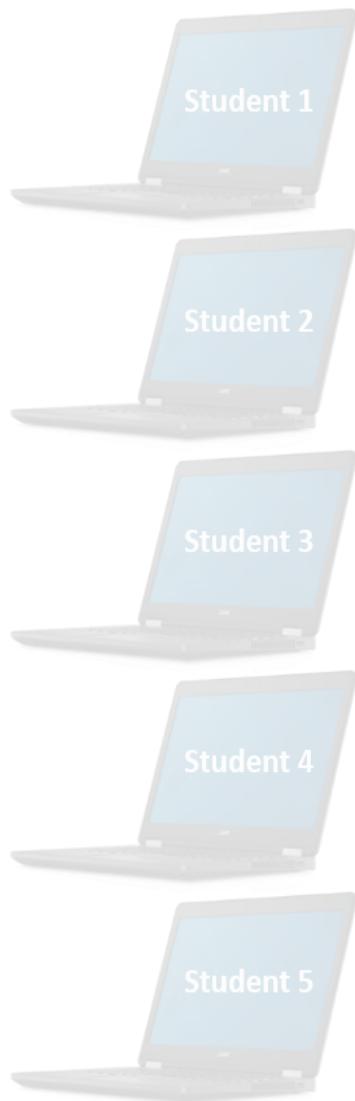


Practicum data never resides on student laptops

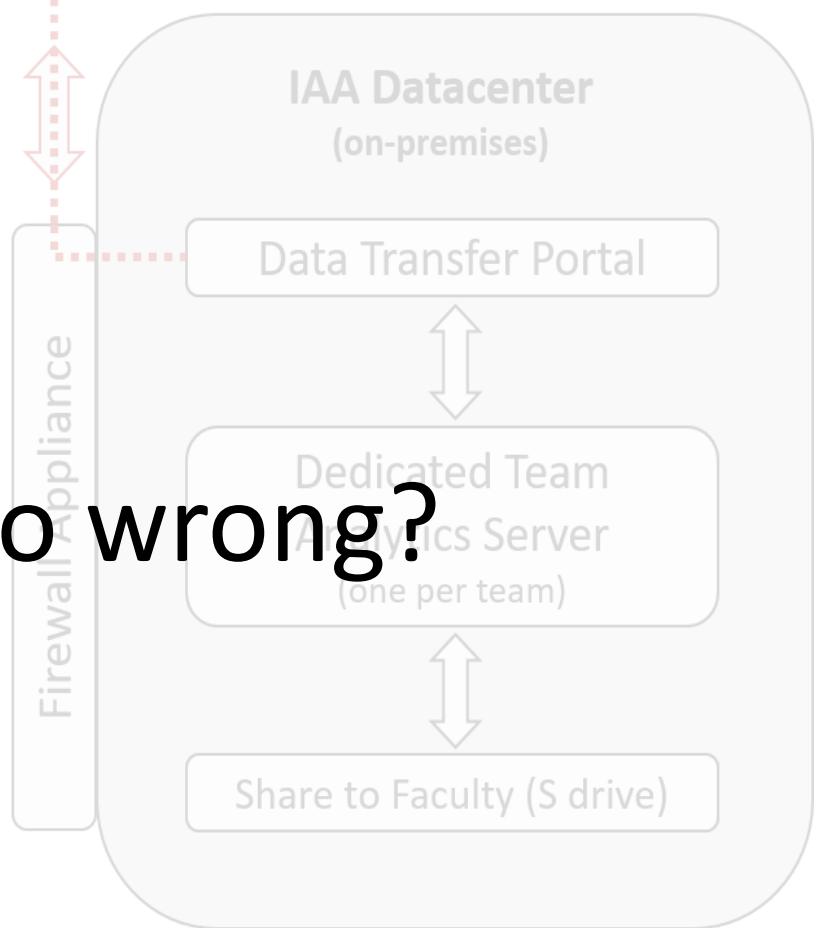
# Much security is built-in...



Practicum data never resides on student laptops

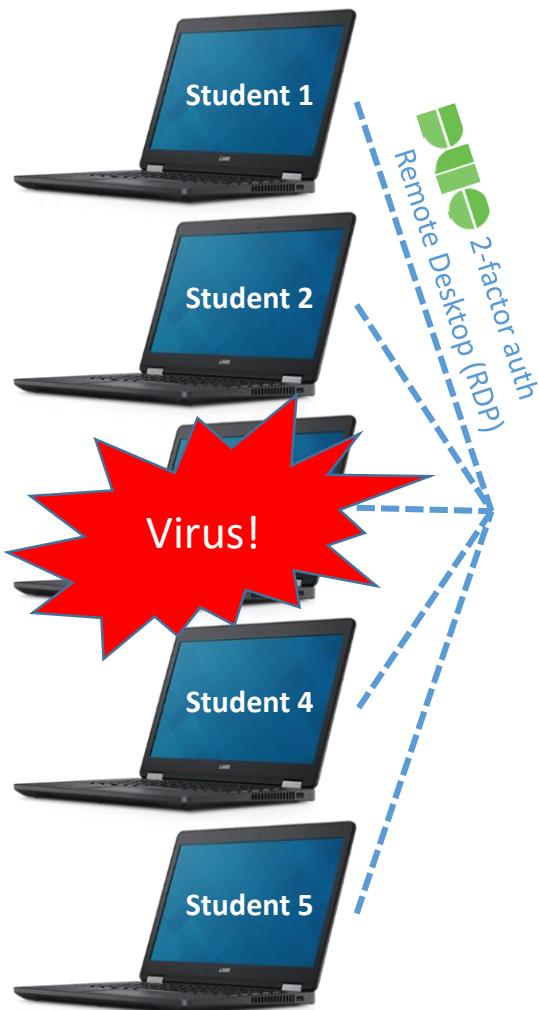


# What could go wrong?



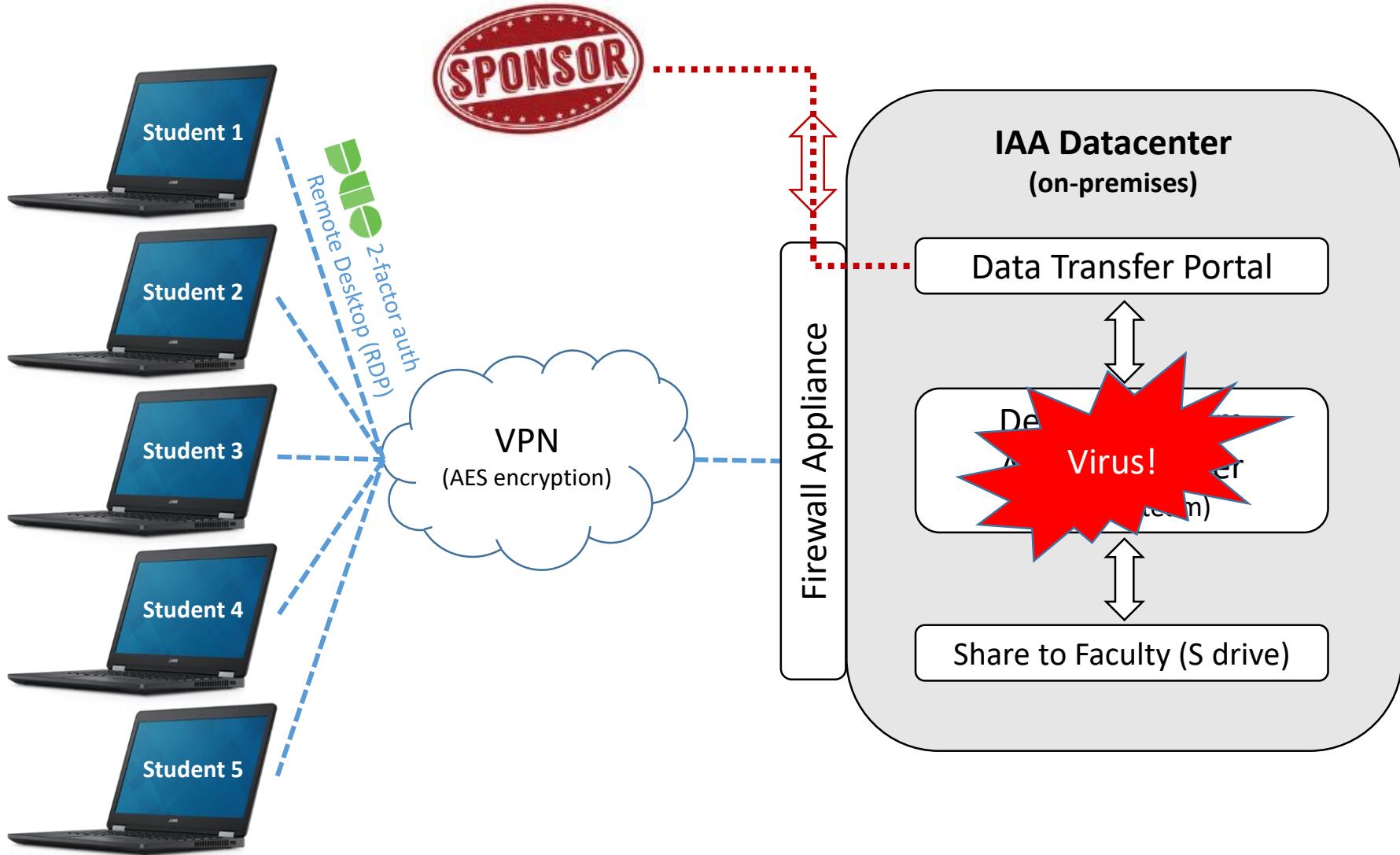
Practicum data never resides on student laptops

# What could go wrong?



Practicum data never resides on student laptops

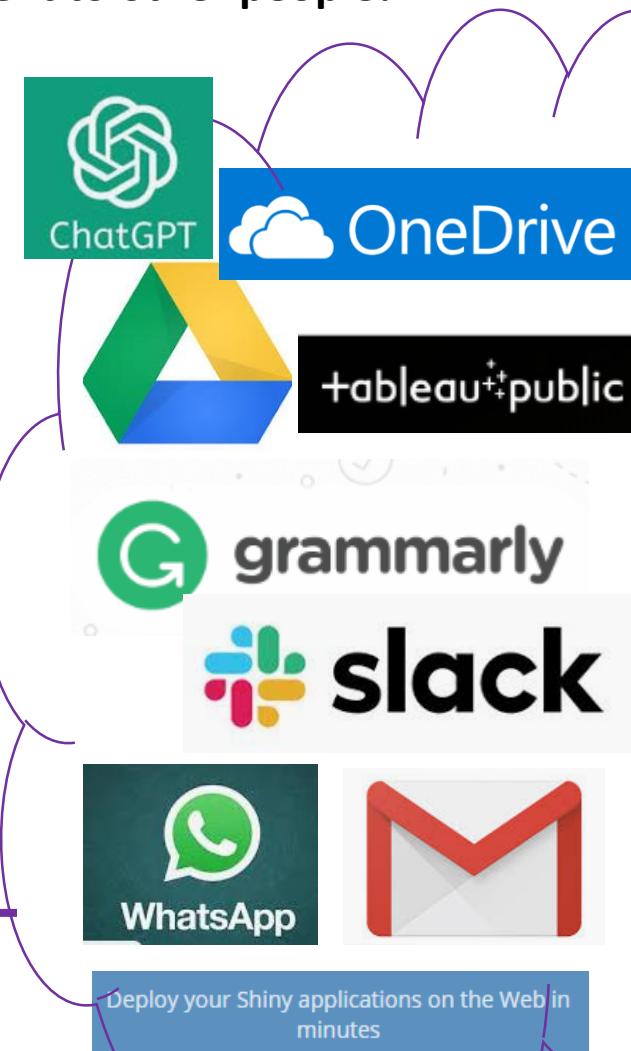
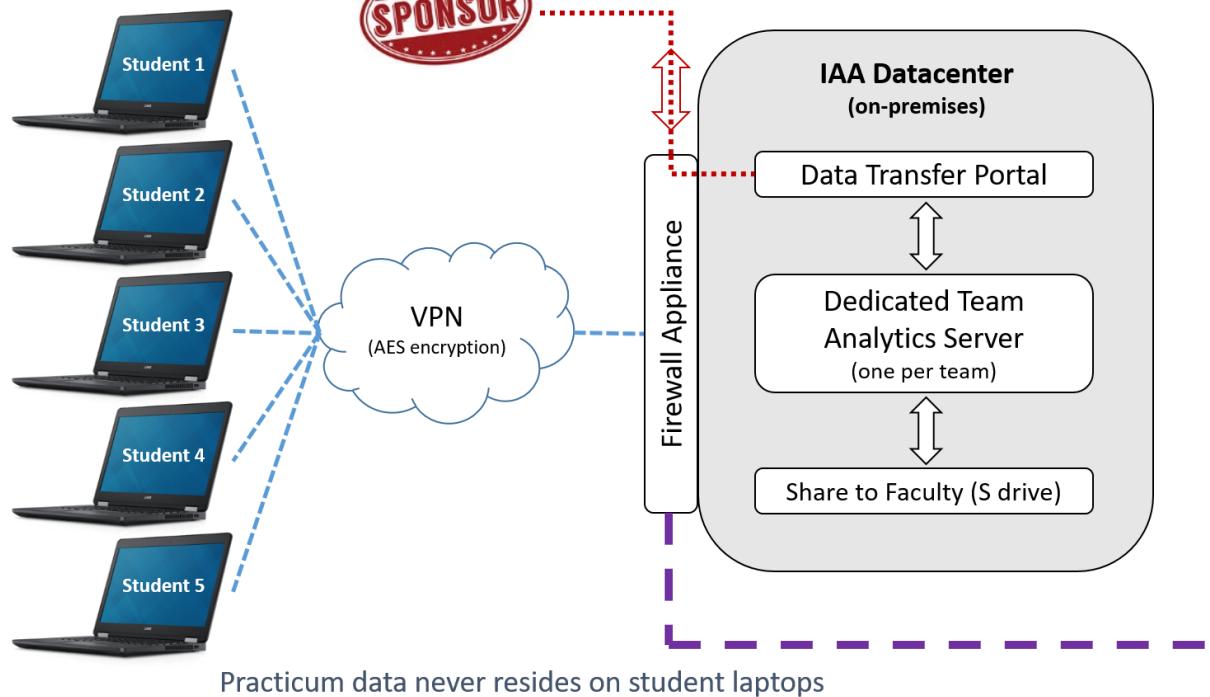
# What could go wrong?



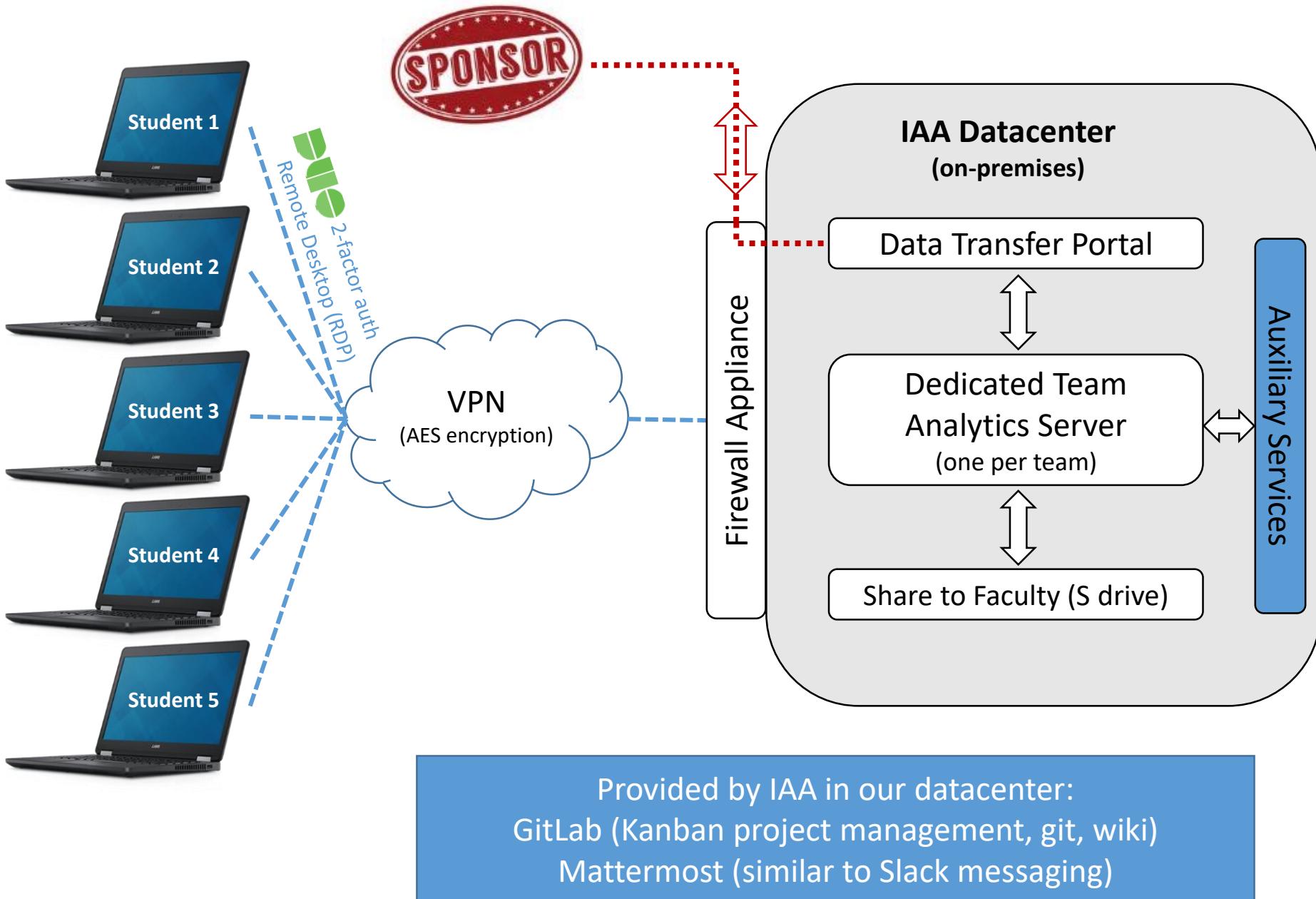
Practicum data never resides on student laptops

# What could go wrong?

You could accidentally GIVE AWAY practicum content to other people!



# Note: IAA provides some auxiliary services



# What could go wrong?



NC STATE UNIVERSITY

Violation

MSA Practicum

Computer and Data Security

Policy and Guidelines

# What could go wrong?

## **2.) Policy Compliance**

—Violations of the “MSA Practicum Computer and Data Security Policy and Guidelines” will result in a verbal warning, with repeat violations resulting in serious consequences or possible termination from the MSA Program.

(page 3)

# Review: Goals and Pitfalls

## Goals

- ✓ **Top priority: protect sponsor data**
- ✓ Follow IAA practicum security policy
- ✓ Gain professional experience
- ✓ Never have NDA content in your personal possession (except paper notes we will shred at the end.)

## Avoid

- ❖ Your laptop hacked
- ❖ Practicum server hacked
- ❖ Giving NDA data to outsiders
- ❖ Violating IAA policy

Unsure about something related to practicum security?  
Come talk to John!

# A walk through the timeline toward graduation...

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Practicum security policy quiz (done in teams)



## MSA Practicum Computer and Data Security

Policy and Guidelines

Practicum Kickoff

Fall 1

Fall 2-3

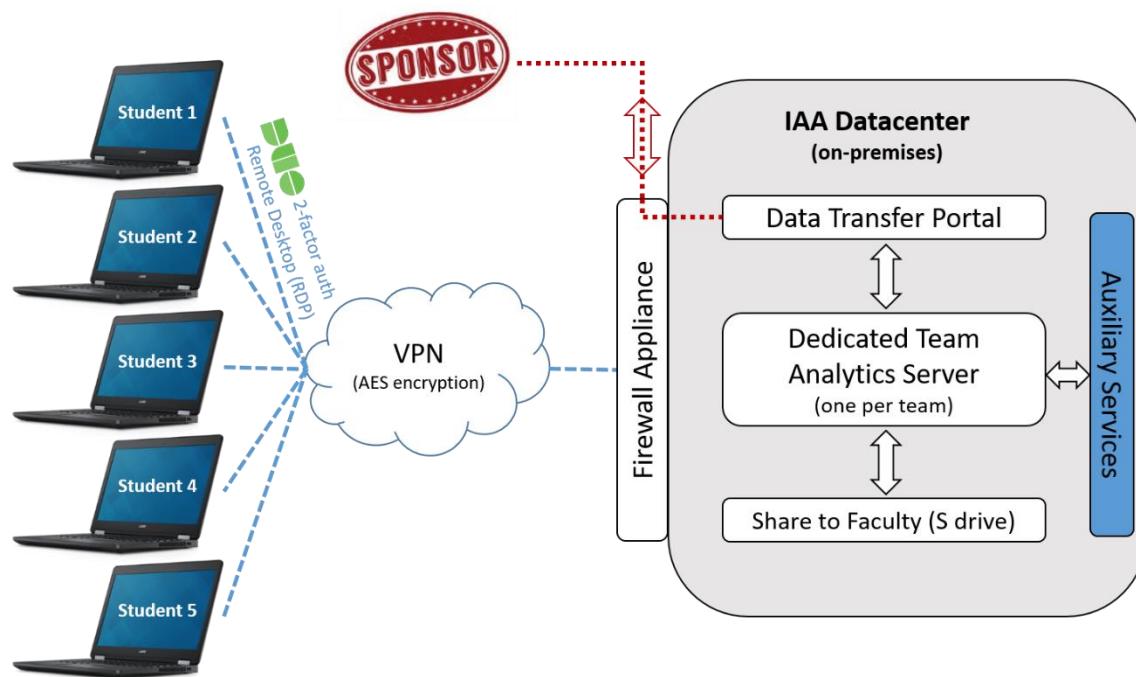
Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Gain access to practicum server



Practicum Kickoff

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Meet your team, develop communication habits



Slack / Email / Text	IAA Mattermost
<ul style="list-style-type: none"><li>• <b>Can't</b> discuss practicum <b>details</b> / NDA content</li><li>• Good for alerting phones</li></ul>	<ul style="list-style-type: none"><li>• <b>Can</b> discuss sensitive details, send NDA content</li><li>• <b>Can't</b> reach phones</li></ul>

Practicum Kickoff

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Gain access to practicum data, NDA content



- ✓ Data Transfer Portal
- ✗ ~~Email / Google Drive~~

Practicum Kickoff

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Get to know your sponsor (kickoff meeting)



Can do web conferences *from your laptop*, then open up Remote Desktop window to the practicum server to share on-screen.

If Sponsor prefers alternative, that's OK

Preferred for team meetings



Cisco Webex Meetings



Google Meet

Practicum Kickoff

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Get to know your sponsor (kickoff meeting)



## Do Not Record Web Conference Video

Can do web conferences *from your laptop*, then open up Remote Desktop window to the practicum server to share on-screen.

If Sponsor prefers alternative, that's OK

Preferred for team meetings



Cisco Webex Meetings



Google Meet

Practicum Kickoff

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Get to know your sponsor (kickoff meeting)



“Oops, forgot to send you the other data dictionary!”

(Make sure to use Data Transfer Portal, NOT email)

Practicum Kickoff

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ✓ Get to know your sponsor (kickoff meeting)



*Sponsor  
Communications...*

**High level** discussion: Email is OK

**Sensitive** discussion: Send Word documents over Data Transfer Portal

Practicum Kickoff

Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# A walk through the timeline toward graduation...

- ❖ No Personally-Identifiable Information (PII)!



PII is:

- ❖ Names
- ❖ Phone Numbers
- ❖ Personal Addresses
- ❖ Emails
- ❖ Social Security Numbers...

Make sure the sponsor has not sent any PII, because it can happen by accident!

Practicum Kickoff

Fall 1

Fall 2-3

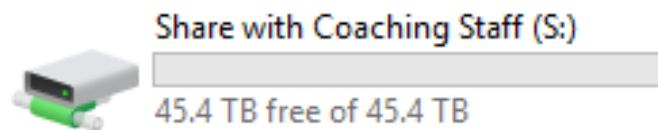
Winter Break

Spring 1-3

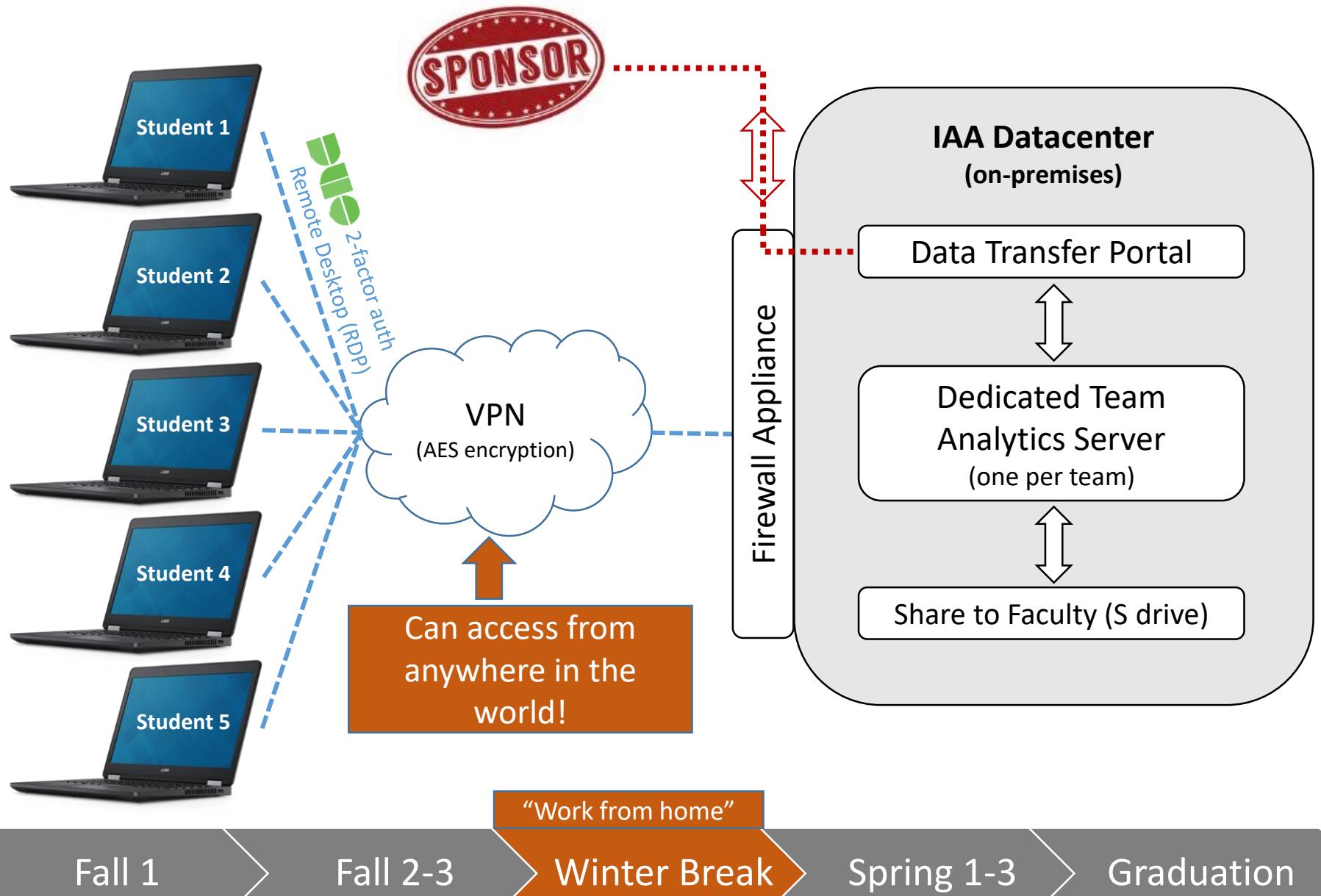
Graduation

# A walk through the timeline toward graduation...

- ✓ Pay attention to who may NOT have signed NDAs (TA's? Some staff?) when asking for help.
- ✓ Use the “S drive” to send NDA content to the coaching faculty (progress reports, etc.) Only authorized faculty/staff have access.



# A walk through the timeline toward graduation...



# A walk through the timeline toward graduation...

Final Presentations: via web conference (e.g. Zoom)



If Sponsor prefers  
alternative, that's OK

Fall 1

Fall 2-3

Winter Break

Modeling, Report

Spring 1-3

Graduation

# A walk through the timeline toward graduation...



Fall 1

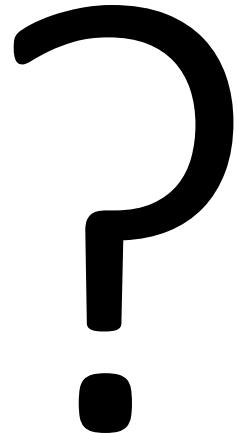
Fall 2-3

Winter Break

Spring 1-3

Graduation

# Questions about the Timeline?



Fall 1

Fall 2-3

Winter Break

Spring 1-3

Graduation

# What's next

- **Read the security policy (it's on Moodle.)**
  - **Read the whole document carefully.**
- Ask questions if you have any:
  - Slack #msa-it-help-desk
  - Email: [iaa@help.ncsu.edu](mailto:iaa@help.ncsu.edu)
- Do the Security Policy Quiz on Moodle.
- Fill out the security policy agreement Google Form on Moodle.
- Sign the NDAs (instructions forthcoming.)
- After review, your team will be granted data access.

# What's next

- Read the security policy (it's on Moodle.)
  - Read the whole document carefully.
- Ask questions if you have any:
  - Slack #msa24-it-help-desk
  - Email: [iaa@help.ncsu.edu](mailto:iaa@help.ncsu.edu)
- Do the Security Policy Quiz on Moodle.
- Fill out the security policy agreement Google Form on Moodle.
- Sign the NDAs (instructions forthcoming.)
- After review, your team will be granted data access.

# What's next

- Read the security policy (it's on Moodle.)
  - Read the whole document carefully.
- Ask questions if you have any:
  - Slack #msa-it-help-desk
  - Email: [iaa@help.ncsu.edu](mailto:iaa@help.ncsu.edu)
- **Do the Security Policy Quiz on Moodle.**
- Fill out the security policy agreement Google Form on Moodle.
- Sign the NDAs (instructions forthcoming.)
- After review, your team will be granted data access.

# What's next

- Read the security policy (it's on Moodle.)
  - Read the whole document carefully.
- Ask questions if you have any:
  - Slack #msa-it-help-desk
  - Email: [iaa@help.ncsu.edu](mailto:iaa@help.ncsu.edu)
- Do the Security Policy Quiz on Moodle.
- Fill out the security policy agreement Google Form on Moodle.
- Sign the NDAs (instructions forthcoming.)
- After review, your team will be granted data access.

# What's next

- Read the security policy (it's on Moodle.)
  - Read the whole document carefully.
- Ask questions if you have any:
  - Slack #msa-it-help-desk
  - Email: [iaa@help.ncsu.edu](mailto:iaa@help.ncsu.edu)
- Do the Security Policy Quiz on Moodle.
- Fill out the security policy agreement Google Form on Moodle.
- **Sign the NDAs (instructions forthcoming.)**
- After review, your team will be granted data access.

# What's next

- Read the security policy (it's on Moodle.)
  - Read the whole document carefully.
- Ask questions if you have any:
  - Slack #msa-it-help-desk
  - Email: [iaa@help.ncsu.edu](mailto:iaa@help.ncsu.edu)
- Do the Security Policy Quiz on Moodle.
- Fill out the security policy agreement Google Form on Moodle.
- Sign the NDAs (instructions forthcoming.)
- After review, your team will be granted data access.

# What's next

- Read the security policy (it's on Moodle.)
  - Read the whole document carefully.
- Ask questions if you have any:
  - Slack #msa-it-help-desk
  - Email: [iaa@help.ncsu.edu](mailto:iaa@help.ncsu.edu)
- Do the Security Policy Quiz on Moodle.
- Fill out the security policy agreement Google Form on Moodle.
- Sign the NDAs (instructions forthcoming.)
- After review, your team will be granted data access.

# Moodle Section:

<https://moodle-courses2324.wolfware.ncsu.edu/course/view.php?id=195&section=2>

