

# HUDK 5053: FEATURE ENGINEERING STUDIO

9/17/19 3:51 PM

# Events

Title	Date - Time	Location
<u>Our Tech Futures</u>	09/21 - 10:00am	Columbia
<u>AI in the Classroom</u>	09/20 - 3:00pm	TC
<u>Careers in Data Science in Ed</u>	09/25 - 3:30pm	TC
<u>AWS: A Simplified Approach to Data Driven Research</u>	09/30 - 9:00am	Webinar
Formal & Informal LA (lunch)	10/4 - 11:00am	GDH 449
Cornell Tech: Day of Data	10/15	Cornell Tech

# Memoranda of Understanding

- Less formal than a contract (legally binding)
- Non-combative terms
- More formal than a handshake
- Mutually beneficial framework
- MOUs are beneficial not because they are enforceable, but because of the time/effort that both parties have to put into it

# Memoranda of Understanding

- Brainstorm common objectives, what do you want? What do you offer?
- Deliverables
- Communication (Contact details, timing)
- Dates and expectations for performance reviews
- Dispute resolution
- When agreement begins/ends
- "This memorandum is not intended to and does not create any contractual rights between these parties."



**<https://www.youtube.com/watch?v=TsRBftzZsQo>**

# Amazon

- <https://github.com/feature-engineering-studio/aws-setup>
- Go to AWS and make an account (you will need a credit card)
- Login
- Go to: [http://www.louisaslett.com/RStudio\\_AMI/](http://www.louisaslett.com/RStudio_AMI/)
- Click on “US East, Virginia”
- Work through Wizard, change MyIP
- Go to Security Groups and create a rule that allows inbound traffic on http
- Copy Public DNS to browser

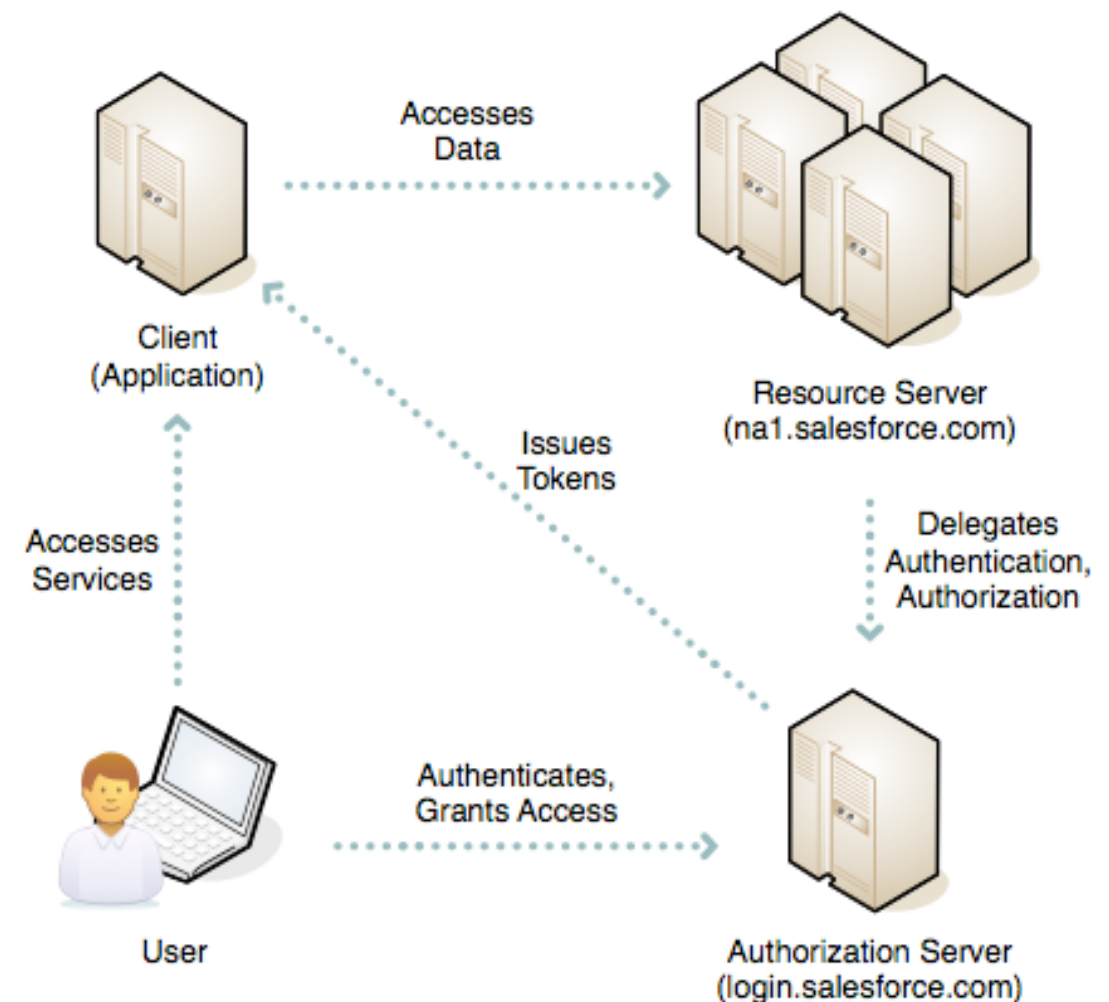
# APIs

- Representational State Transfer
- Web based standard for writing stable, scalable, fast applications on the web
- Based on HTTP (Roy Fielding's doctorate)



# OAuth

- A standard for accessing a website through an app without disclosing password
- Instead an access token is generated to grant access to a subset of the data





# Github API in R

- Same as Twitter, need a developer account. Login to Github and then go to: <https://github.com/settings/developers>
- Create a new application (<http://github.com> will work for Homepage URL)
- Authorization callback URL can be <http://localhost:1410>
- Remember the name you give the application

# Class Project

1. We will be running an online class on Thursday October 17
2. Each group will:
  1. Map out their project in a Gantt chart
  2. Teach something during that class online (40min) (Zoom)
  3. Instrument their content to measure something (Github)
  4. Upload their data via API
3. Store data in AWS
4. Build a Shiny dashboard