

Using Drupal to Transform Education



btopro
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<http://btopro.com/>
<http://drupal.psu.edu/>

Bryan Ollendyke

Drupal Education Unconf

- Drupalcon Portland
 - Monday May 20th, 2013
- Follow Funnymonkey.com



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- Contrib / distribution dev from PSU
- Head of ELMS initiative (GPL)
- Allow philosophy to drive tech
- Don't just say things, do them

Society pushing change

- Massively open online course
 - “MOOC” -> Educators as
‘Like whatever’ -> teenagers
- Everyone talking about it or OER
- Lots of evidence this provides quality experiences (see next slide)

EVIDENCE

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infographics



Bryan Ollendyke

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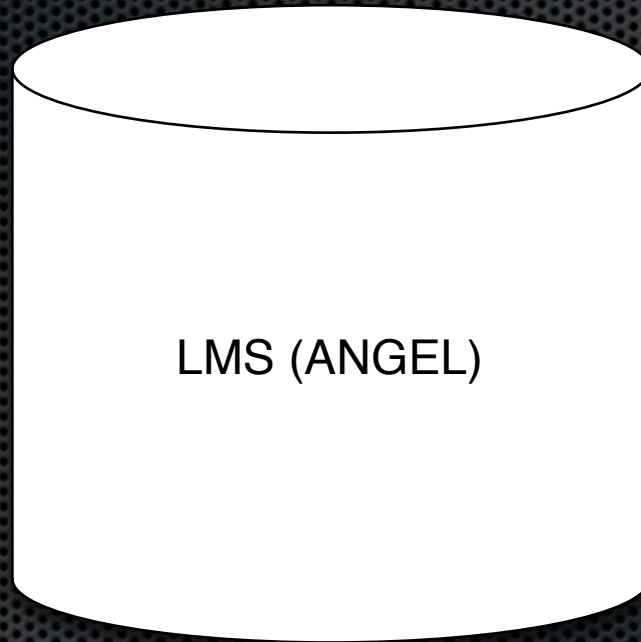
Seriously though

- Great opportunity / risk
- Disrupt or be disrupted
- Regardless, need to provide better experience / outcomes

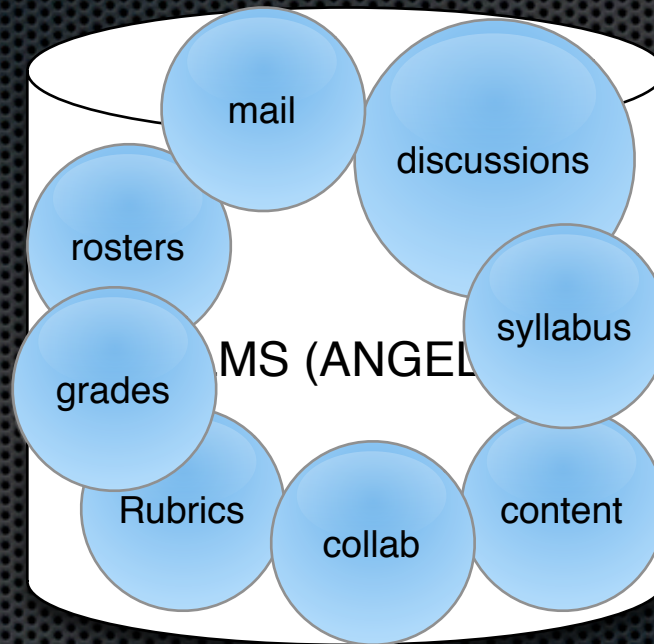
Just 1 attempt to disrupt

- Philosophy: Structured Anarchy
- Technology: Drupal + LTI
- Goal: extend experiences beyond what a single system can provide
- How: Series of interconnected multi-sites that user can create, access and expand on-demand

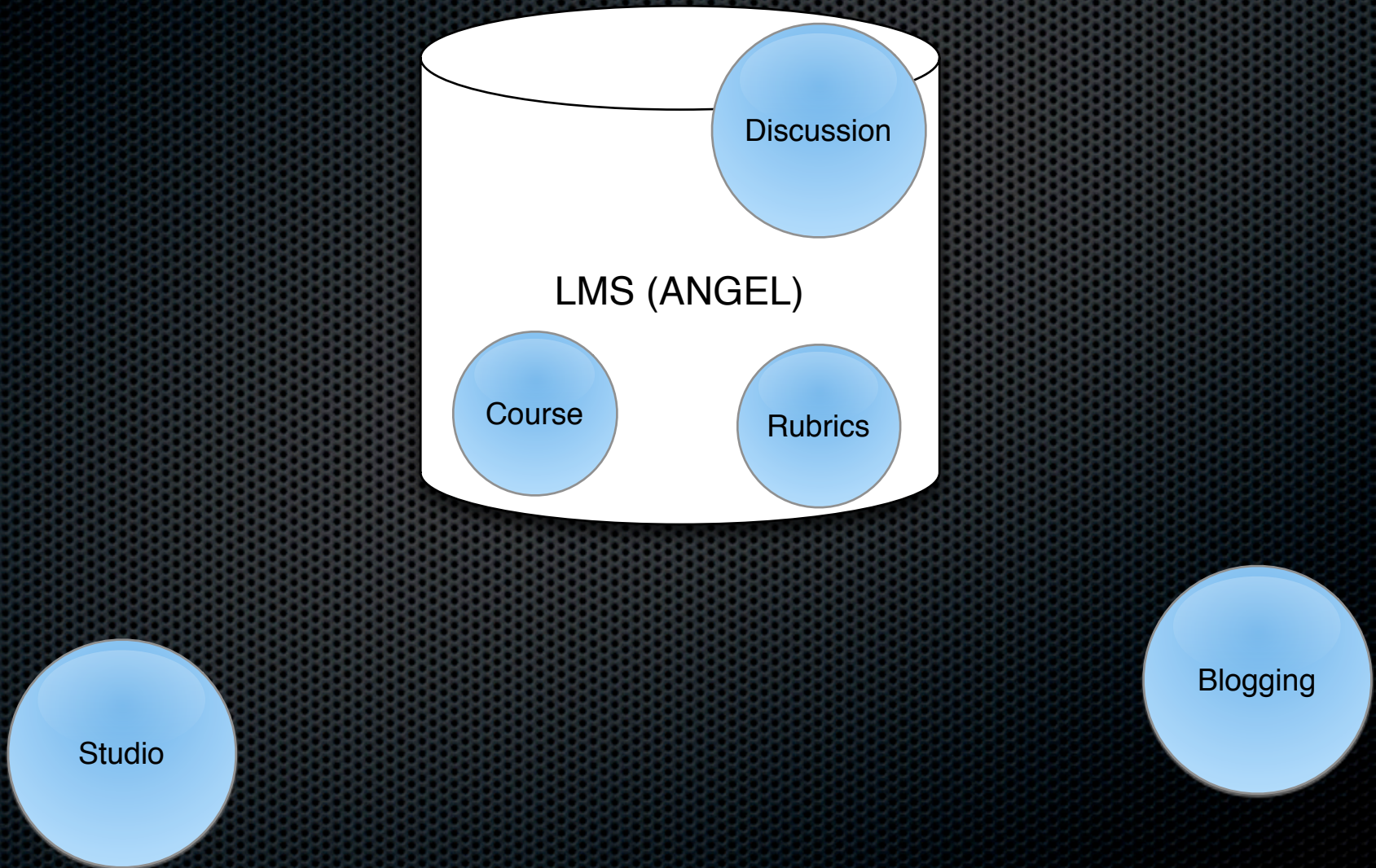
Single point of failure



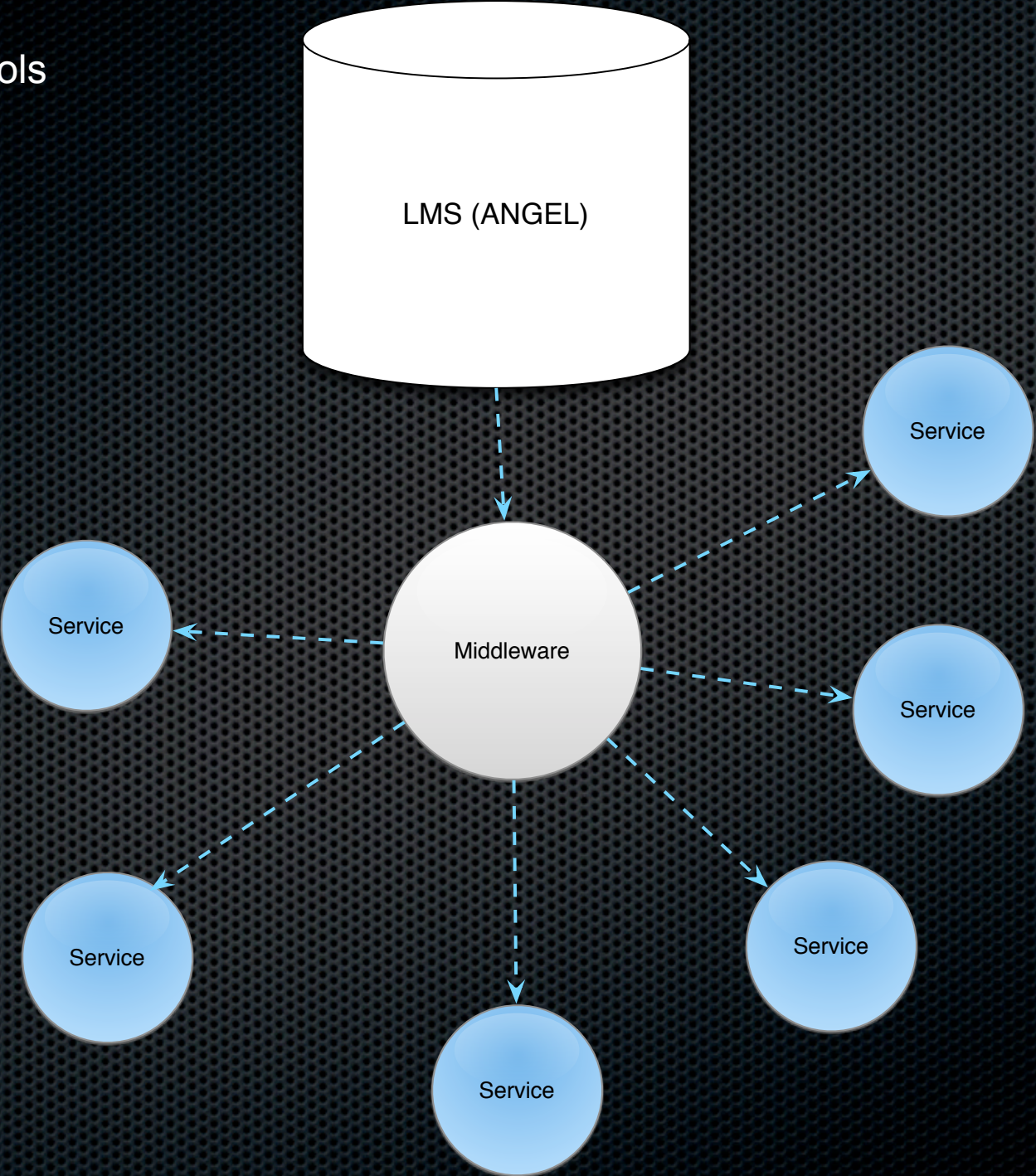
Over Crowded feature-set



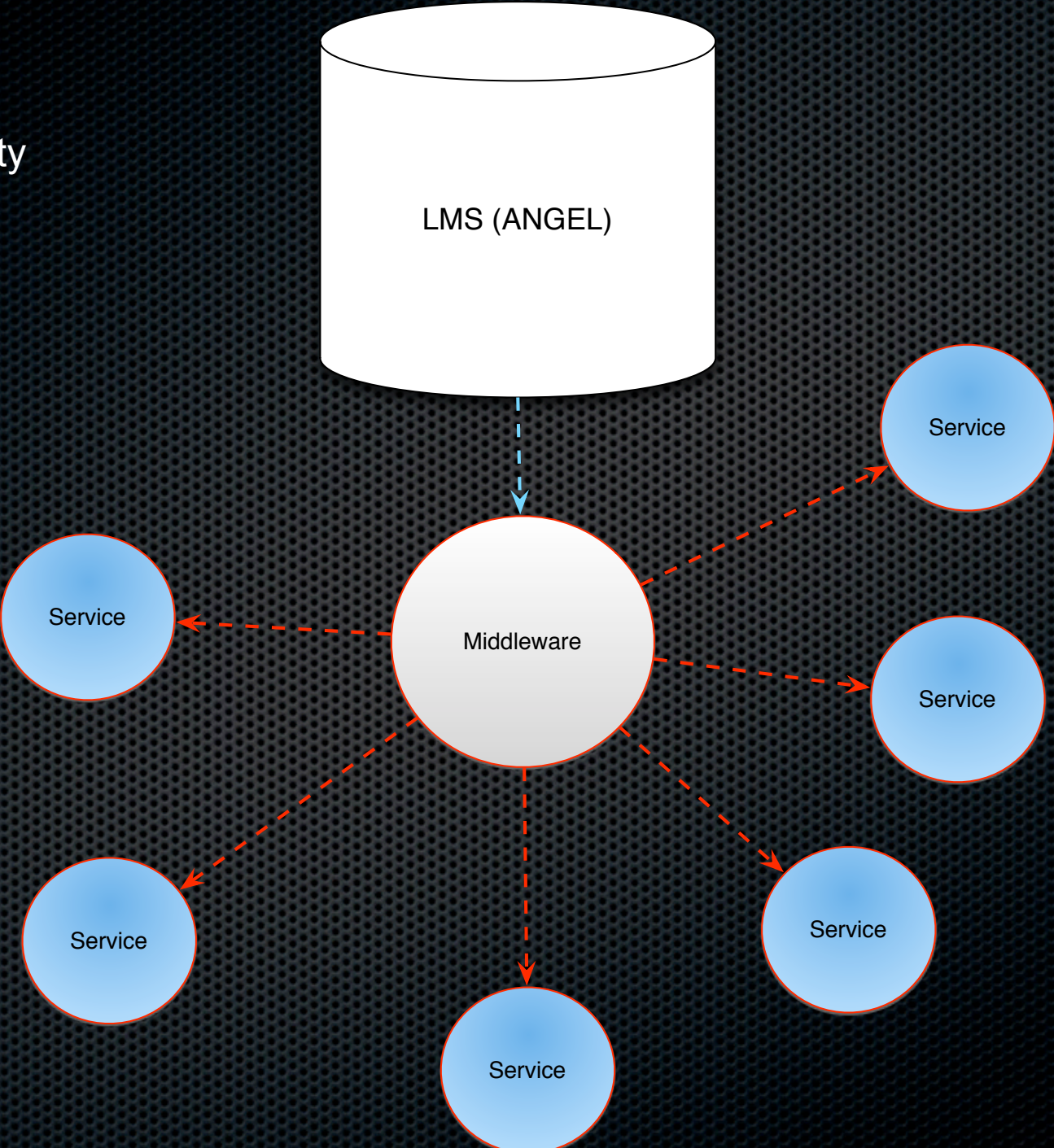
Faculty / student response



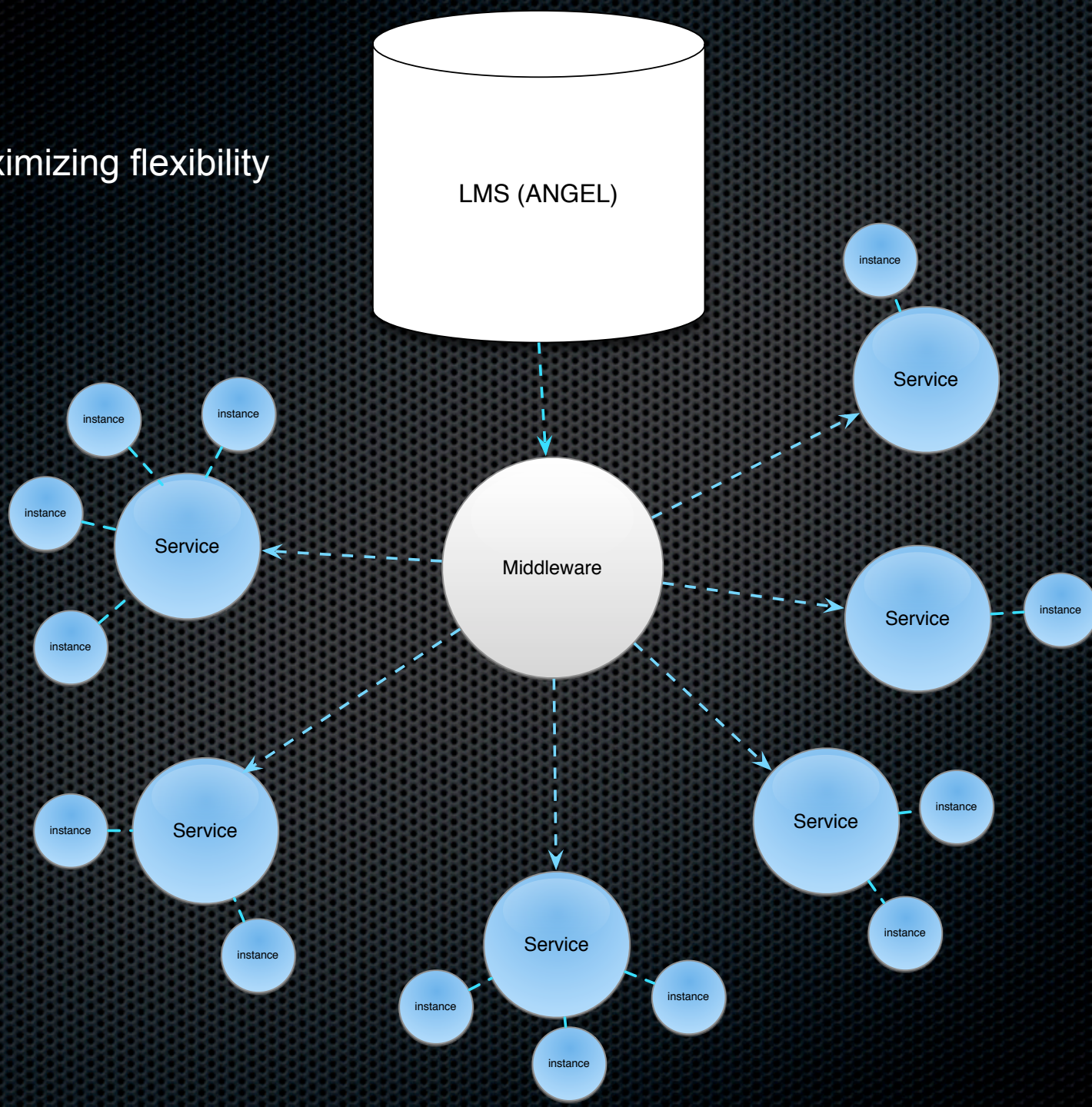
Suite of Tools



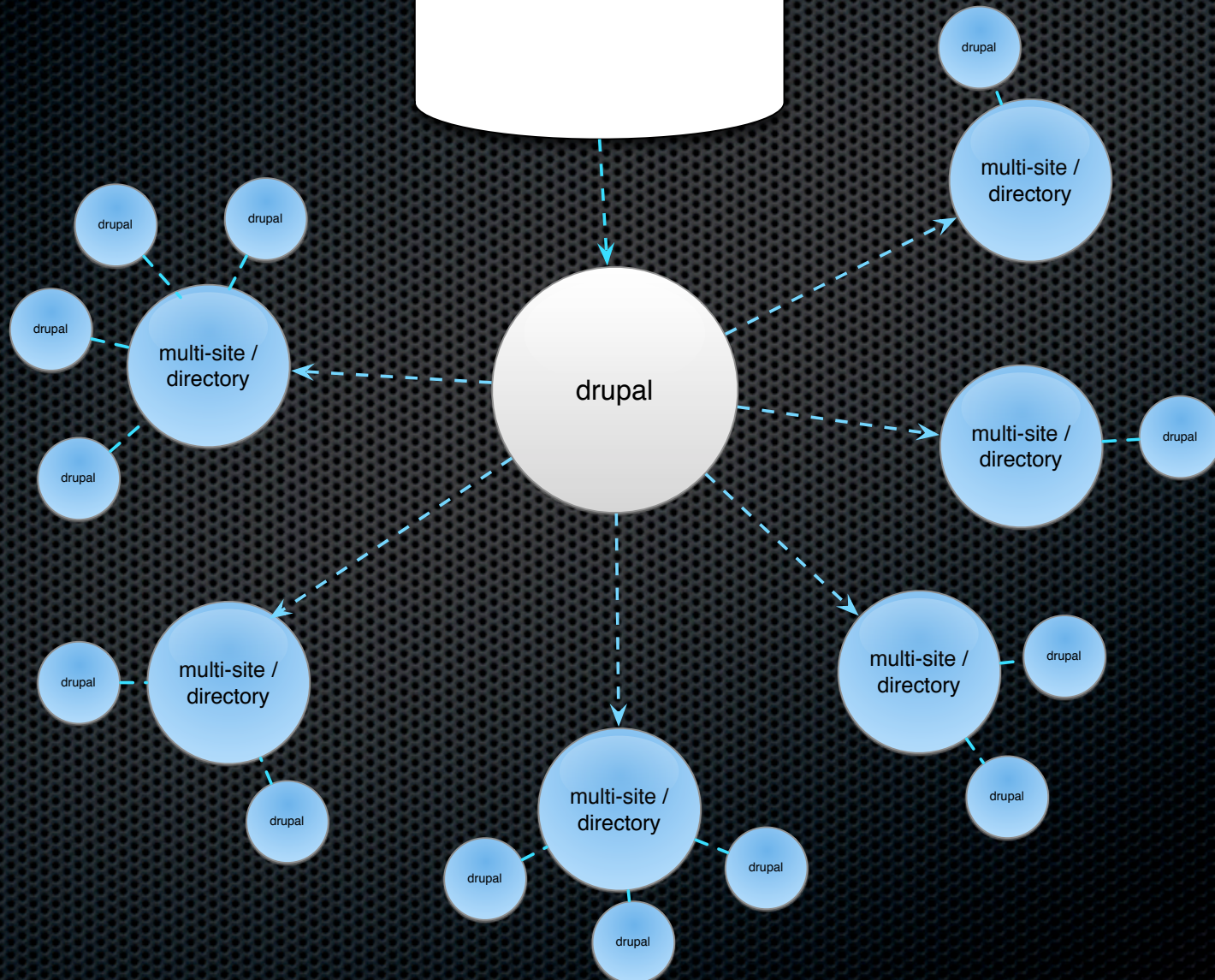
Inflexibility



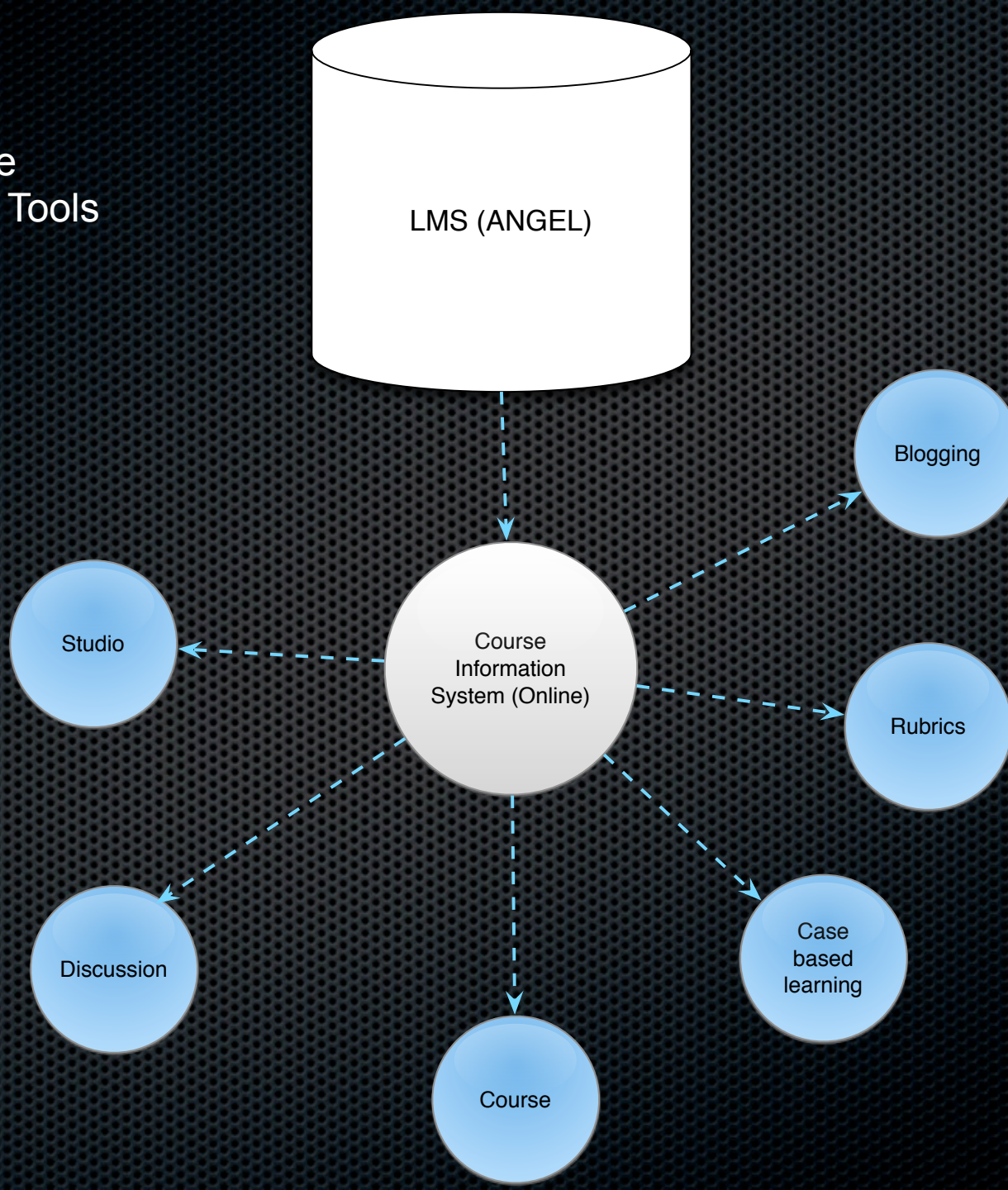
Maximizing flexibility



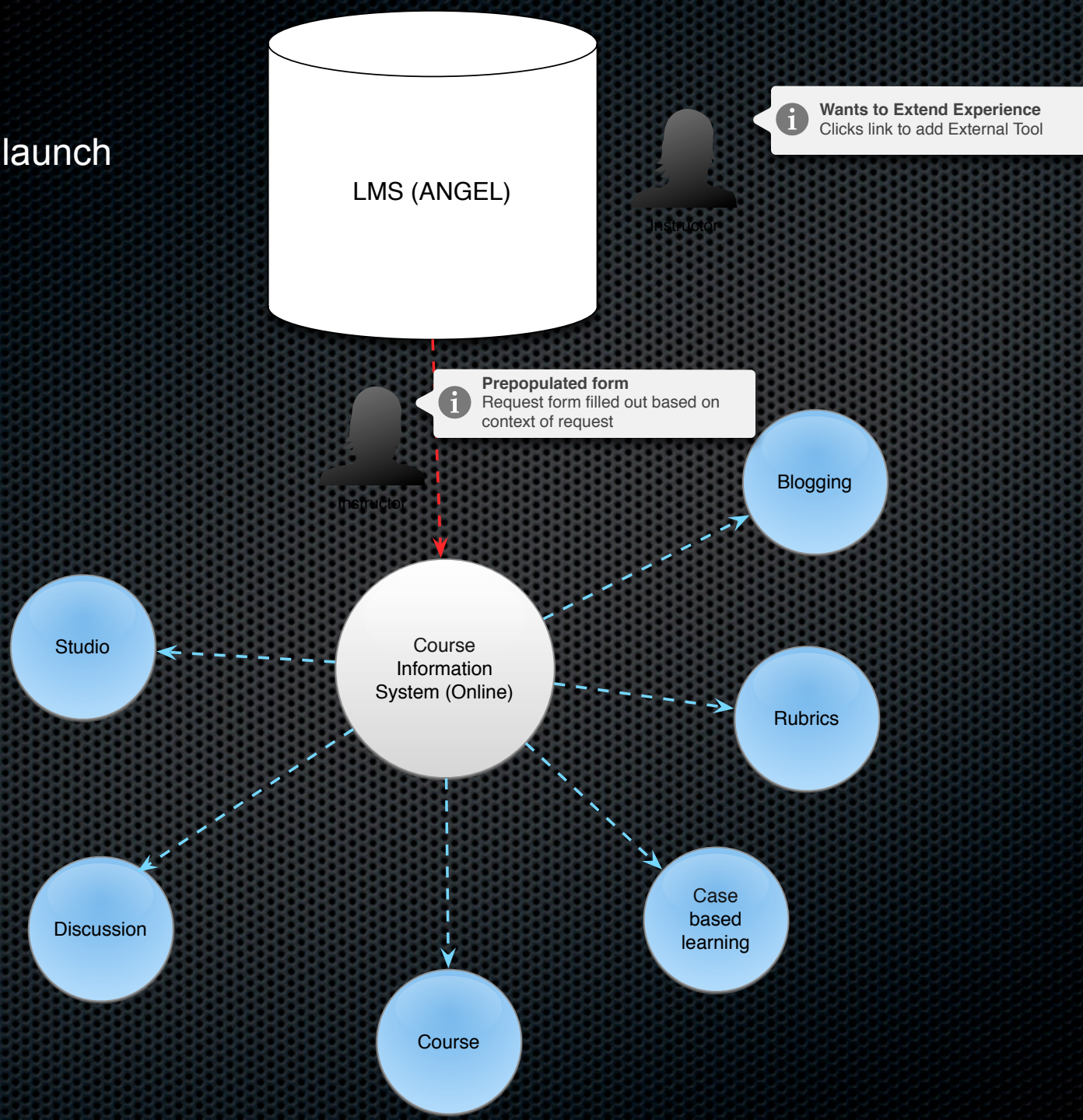
Drupal network



Example Suite of Tools



LTI launch



Ok CIS, lets go make the course first
backend drush script is invoked



What this does...

Creates symlink on the Courses's system courses/art020
Creates database / db user called courses_aa_art020
Creates site files in multisite (courses/sites/courses/aa/art020)
Creates site record in sites/sites.php
Executes a Drush SI to install the MOOC distribution
Writes a UUID into the service that's listed in CIS
Runs any other crush commands CIS said
Imports the selected instructional outline (MOOC only)
Runs cron

What Cron does...

Uses own UUID to request record in CIS
Updates it's own record in CIS with own cron key
Then refreshes list of known content outlines on service
Asks CIS for latest college footer information
Updates Section in CIS to UUID of the outline used

Service is now self-aware, will keep in sync on cron job

Do this again for each other service requested...

ALL DONE! Time to email the person that requested this..

Art 20

Studio

Course
Information
System
(Online)

Blogging

Art 20

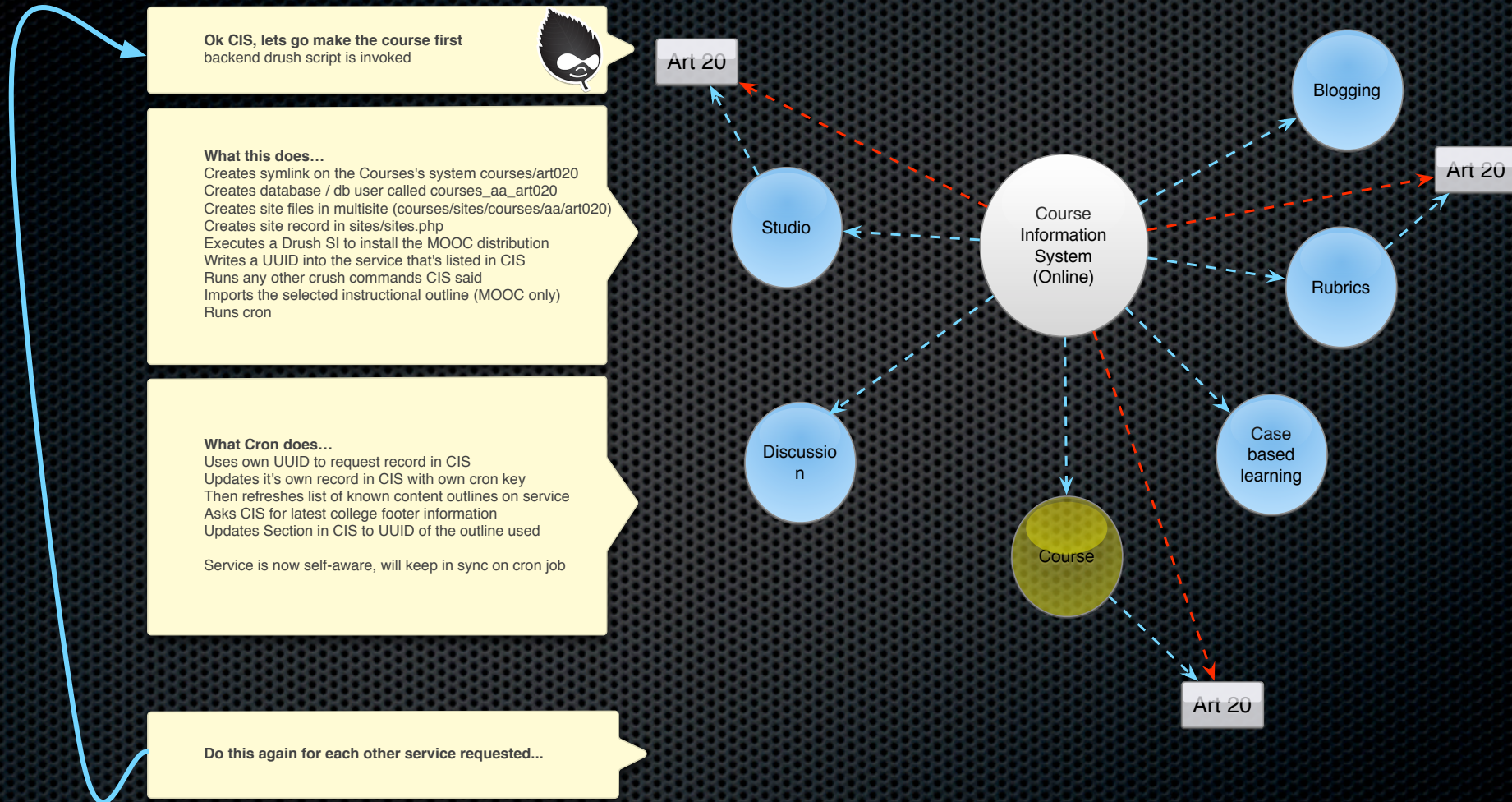
Rubrics

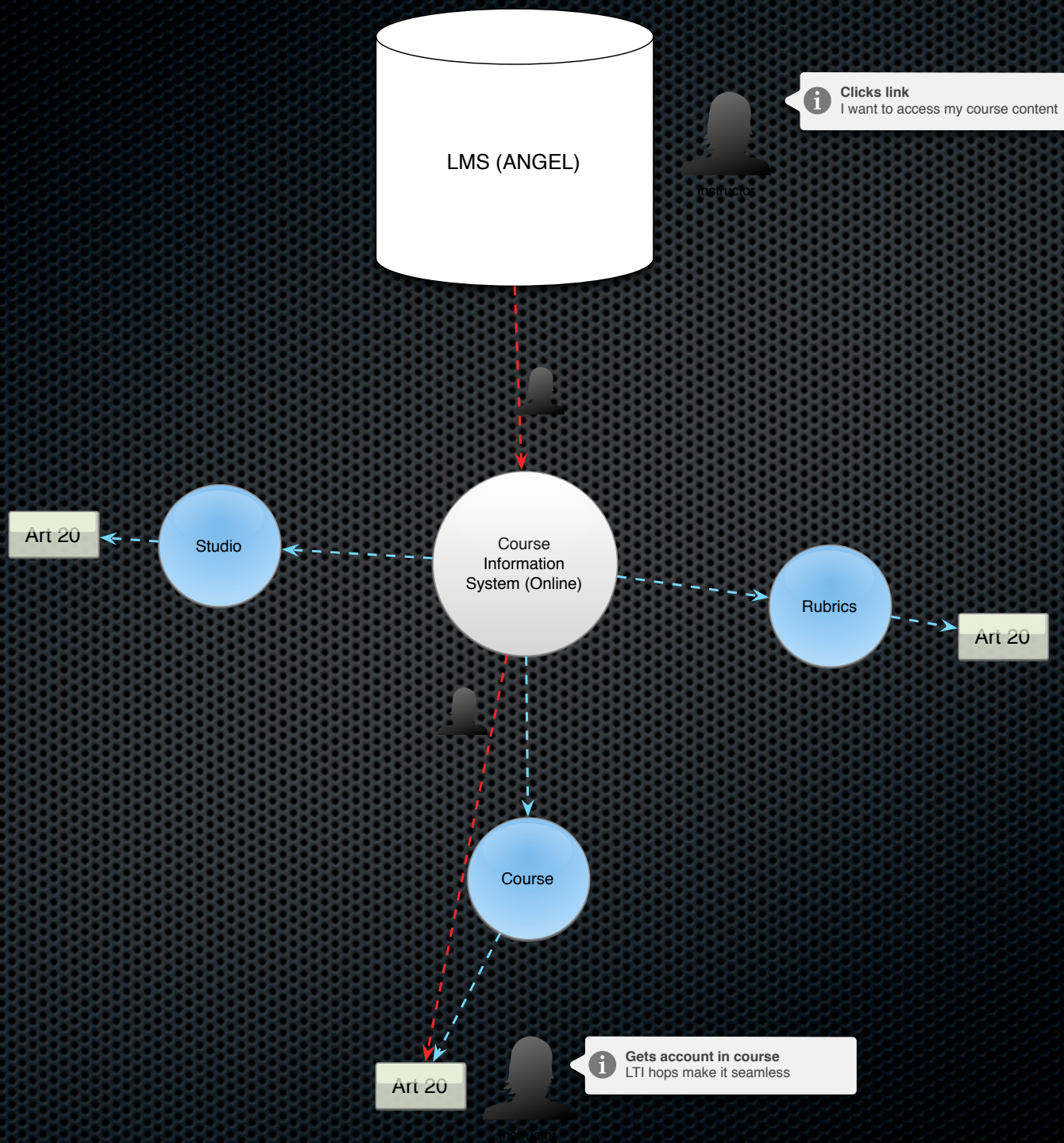
Case
based
learning

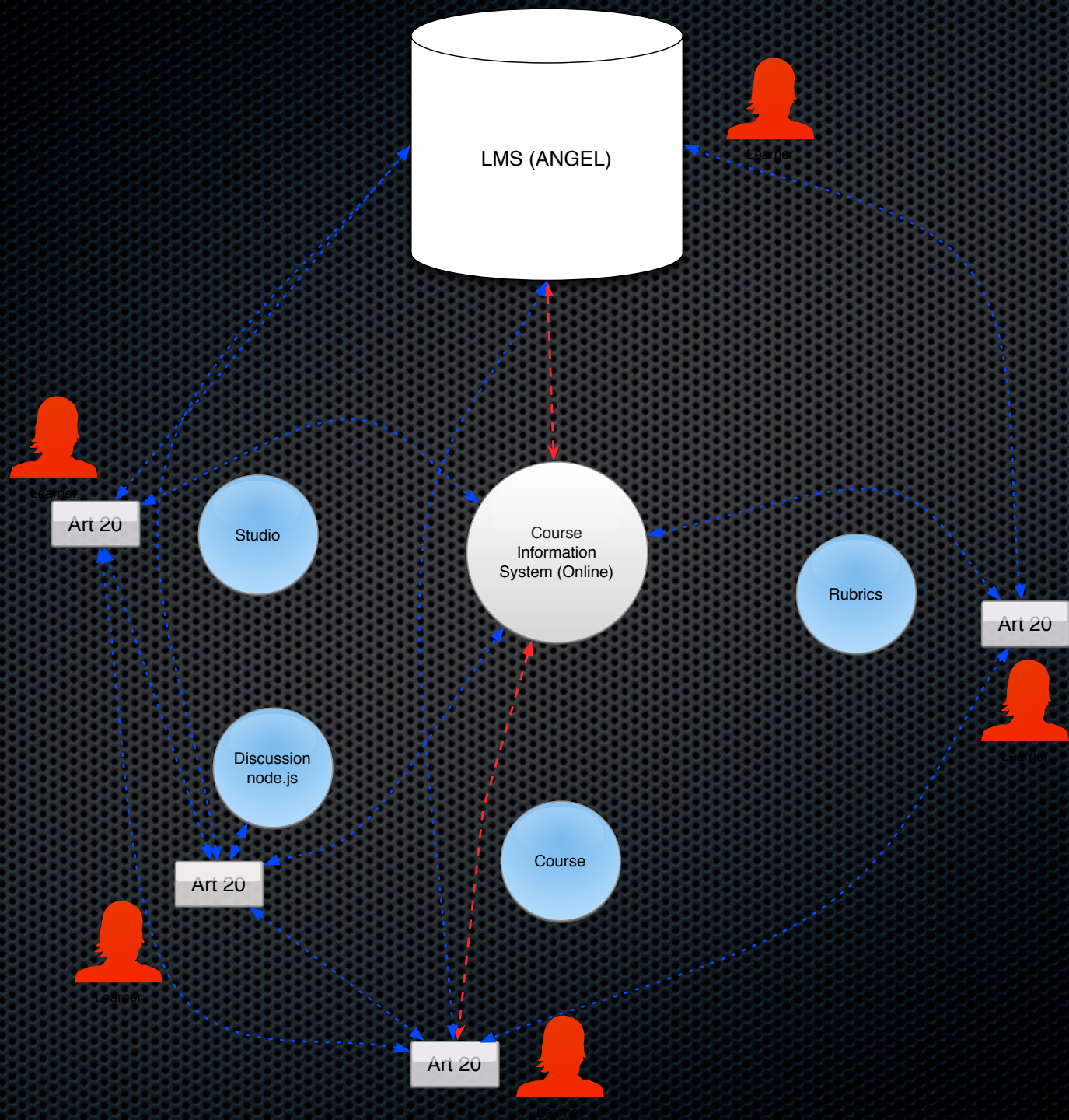
Discussio
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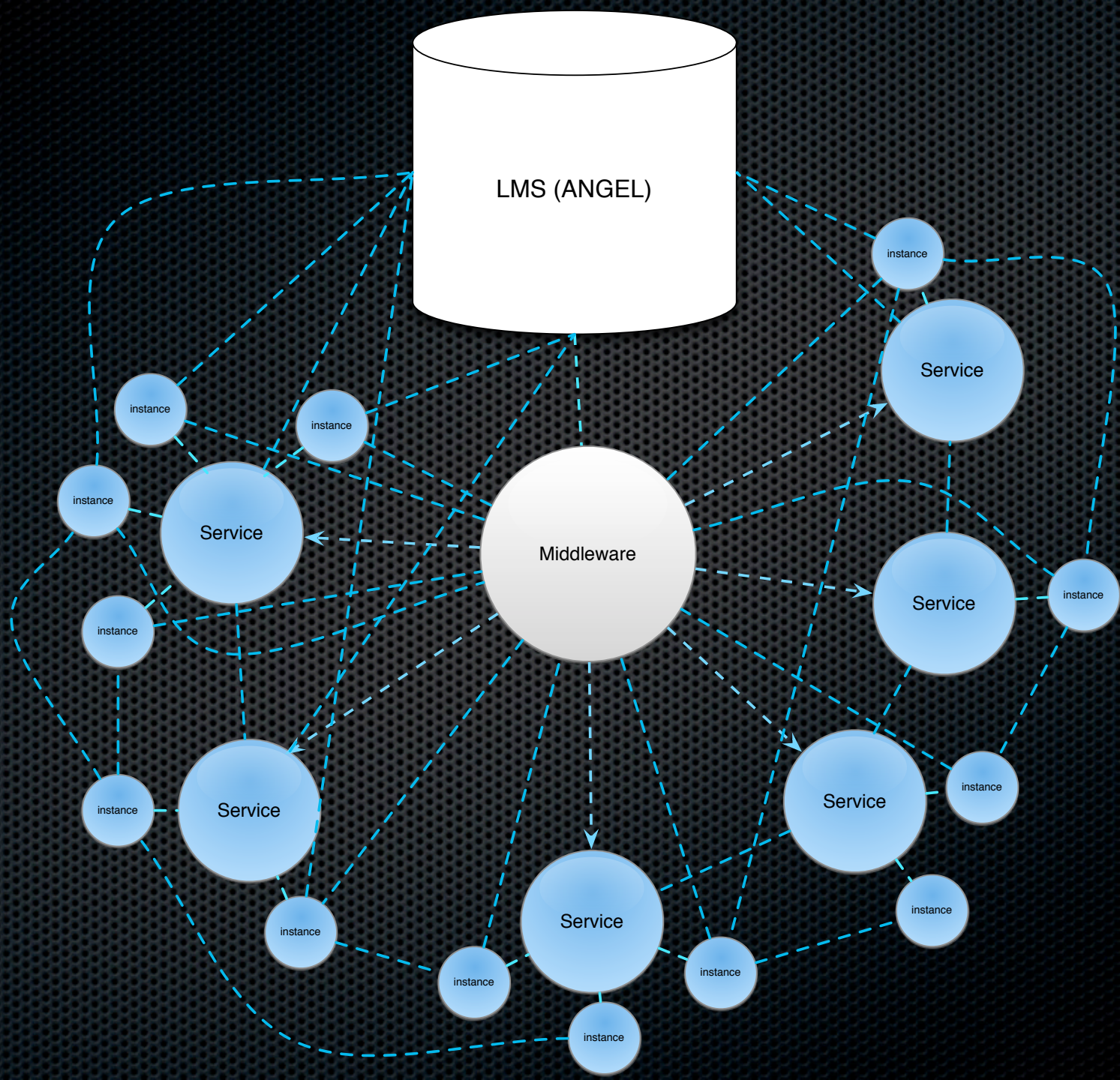
Course

Art 20





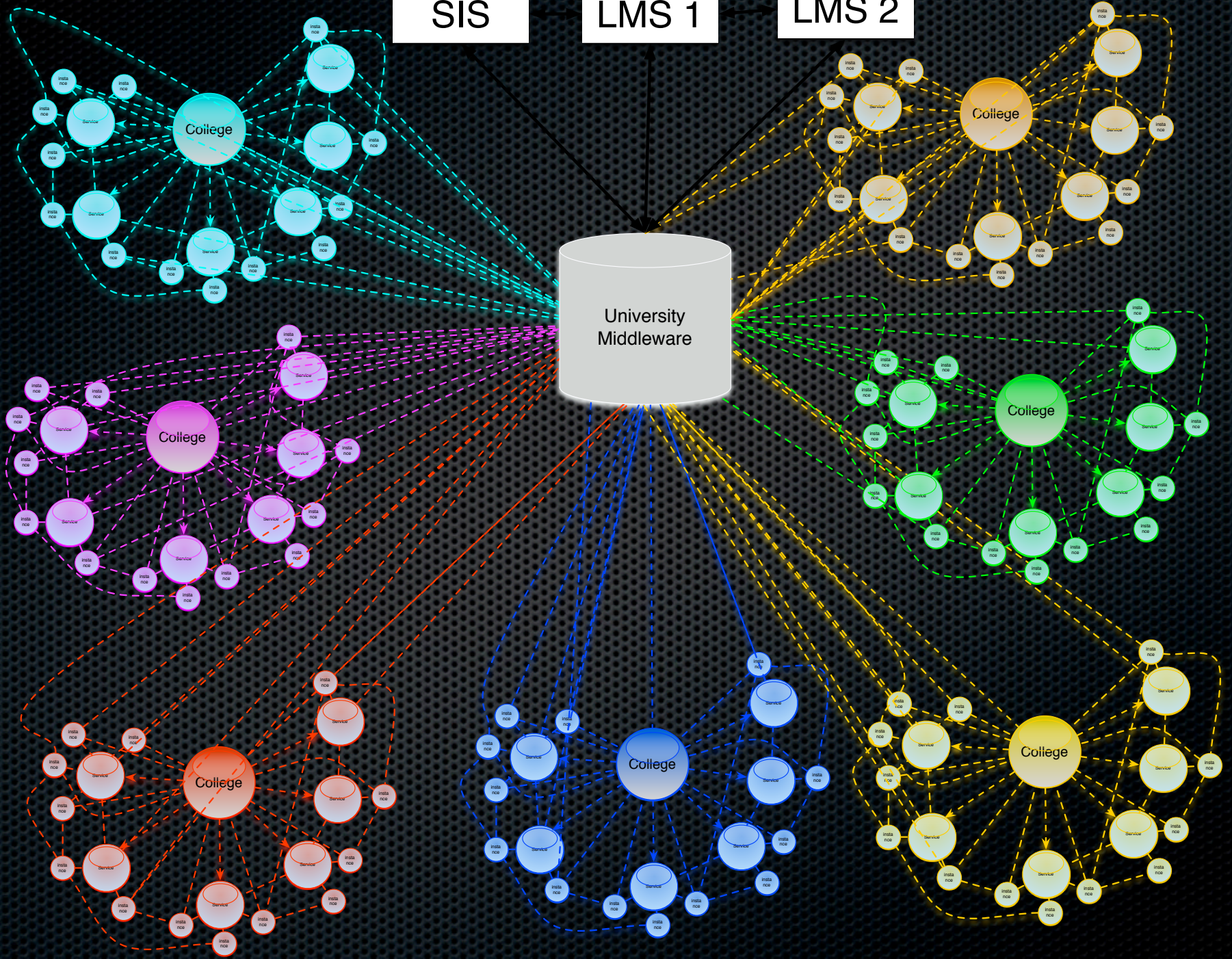




SIS

LMS 1

LMS 2



Play time!

