

The logo consists of a black circle with a white border. Inside the circle, the text "EaaS" is written in white, with a blue dot above the "i".

EaaS

Scaling Software Preservation & Emulation Services

Yale

What is Emulation-as- a-Service?

The logo consists of the text 'EaaS' in white, with a blue dot above the 'i' and another blue dot below the 's'. This text is centered within a semi-transparent grey circle, which is itself surrounded by a thin white circular border.

EaaS

Challenges



A graphic consisting of four concentric circles of increasing size, centered on the left side of the slide.

One

Emulation services do not scale to
the needs of a broad spectrum of
users



A graphic consisting of four concentric circles in a light gray color, centered on the left side of the slide.

Two

Many potential applications to
install, configure, and access via
emulation





Three

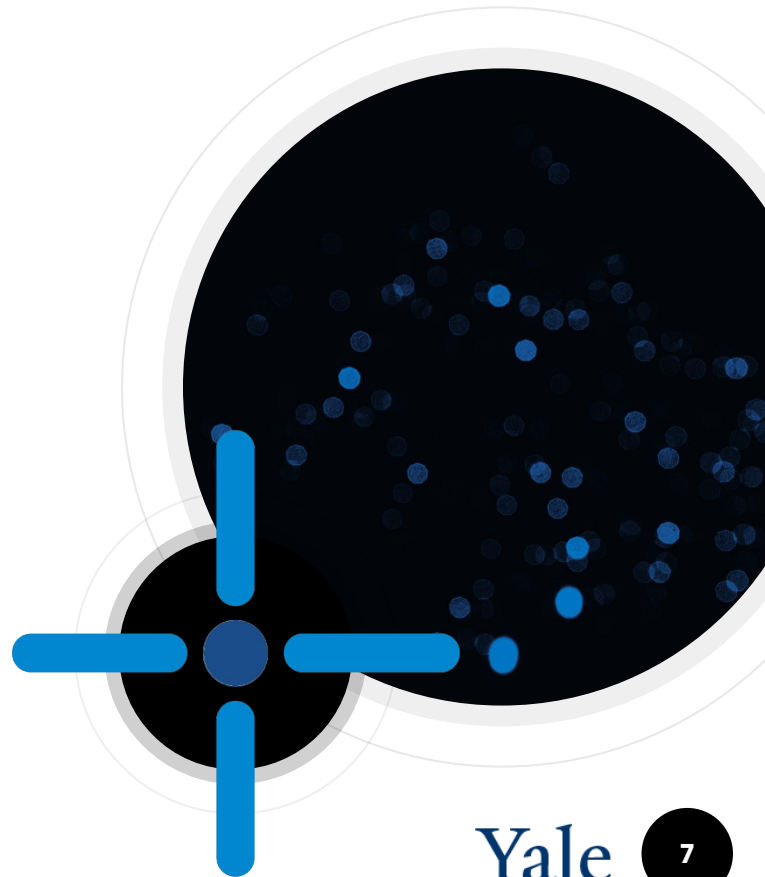
Descriptive practices for software
and computing environments are
inconsistent and/or insufficient





Four

End-user access services are
limited or non-existent



The image features a dark blue background with a bokeh effect of out-of-focus blue circles. Two concentric white circles are centered on the page. The text 'EaaS' is centered within the inner circle, with the 'i' in blue and the 'S' in white.

EaaS

Distributed Mgmt

- A network of distributed nodes, each contributing to the EaaSI service and the software development roadmap.



Sharing

- In-network sharing of software images and configured environments.
- Yale University Library will contribute at least 3000 pre-configured software applications running in configured software environments.





Software

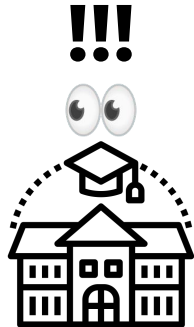


Computer
environment

EaaS Network – Example

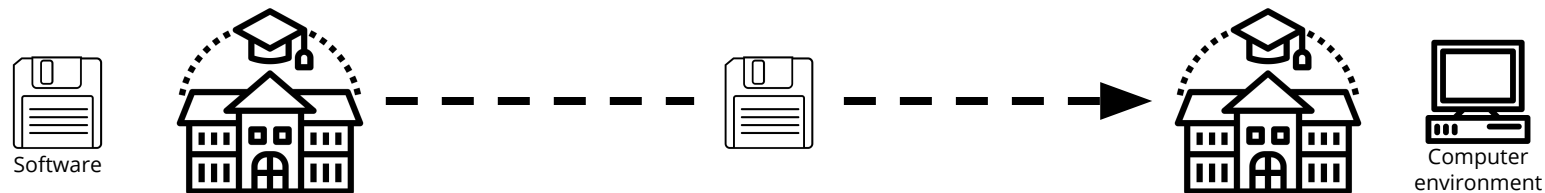


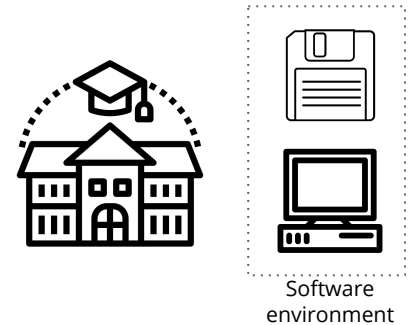
Software



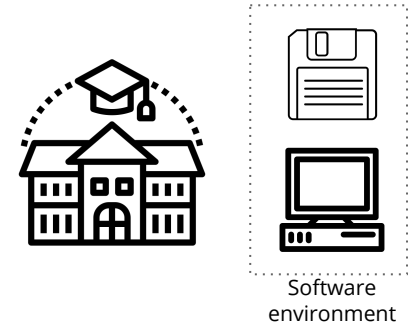
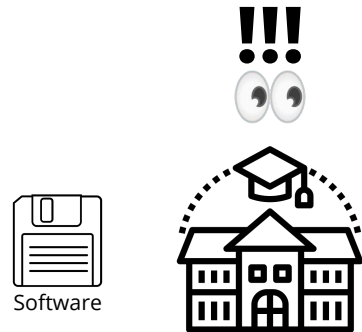
Computer
environment

EaaS Network – Example

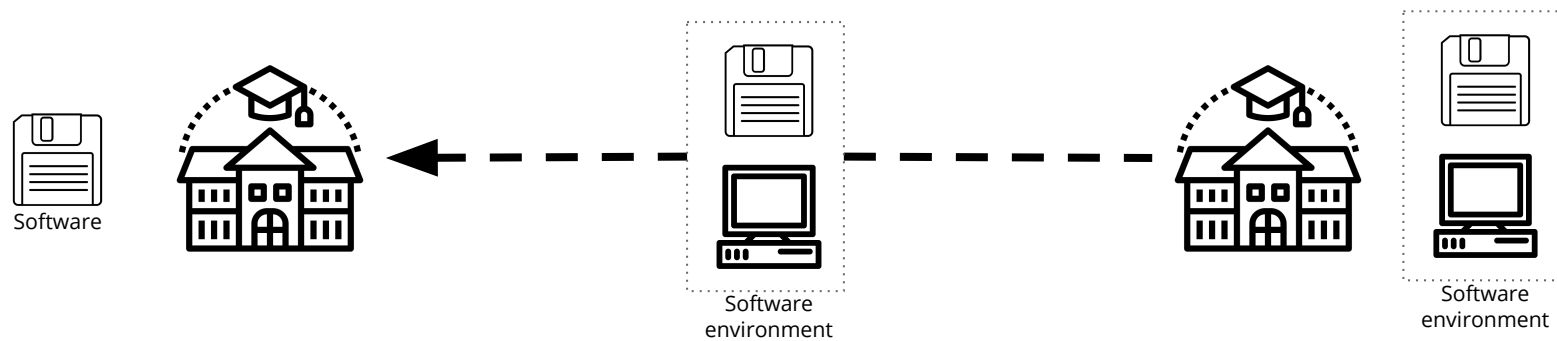




EaaS Network – Example



EaaS Network – Example



EaaS Network – Example



EaaS Network – Example

Discovery

- Incorporating services developed by Wikidata for Digital Preservation
- Comprehensive, open, machine-readable documentation
- Defining profile for description of software and computer environments



Access

- Emulated CD-ROM environment sharing service
- Virtual Reading Rooms Service
- Scientific Software Portal
- API to automatically render objects in original software via emulation



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EaaS

Participatory Design



Why participatory design?

- Builds ownership of project outcomes
- Boosts confidence and self-reliance
- Sets expectations
- Fosters community engagement
- Reduces the risk of failure and consequently, cost



EaaS!

Who is participating?

Advisors

- UC San Diego
- Stanford
- Notre Dame
- Virginia
- Carnegie Mellon

Advisors

- BCC
- TDL
- CfA
- DPC
- U of Toronto
- OPF

The EaaS logo is located in the bottom right of the slide. It consists of the text 'EaaS' in a white sans-serif font, followed by a stylized 'i' that is composed of two vertical blue lines of different heights. The logo is set against a dark blue circular background that features abstract, glowing blue and white curved lines, resembling a stylized 'S' or a network. The entire graphic is enclosed within a light gray circular border.

EaaS*i*

Our Methods

Current

- Structured Interviews
- Collection/Software Inventories
- Scenarios for Use & Access
- Baseline Cost Measuring
- Conference Workshops



EaaS!

Our Methods

Future

- Publishing Deliverables For Review
- User Experience Testing
- Public Sandbox
- Open Software Prioritization
- Expanding Network of Nodes



EaaS!



Learn more

1

Mailing List

SPN Stack Trace Newsletter

2

SPN Community Forum

See Stack Trace
Newsletter for details

3

Website

Coming soon?

A Very Special Thanks to our Funders...



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FOUNDATION



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FOUNDATION



Thanks!

You can find us at

- @sth_rbrt & seth.r.anderson@yale.edu
- @softpresnetwork & jessica@educopia.org

Yale