CESM2 Tutorial (on AWS)

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(Very) Brief Technical Overview

• The Cloud is just a bunch of computers...
  • We installed CESM2 on it.
  • And made it function like a cluster.

Result: What you learn today applies anywhere!
Status: CESM2 on AWS (Current)

- Pre-installed environment
- Launching a cluster is a little complex
- Leaving nodes running gets to be expensive

In short, it works, and *come talk to us* if you want to use AWS for CESM2 research (today). Improvements are in the works...
Status: CESM2 on AWS (Soon)

- Pre-installed environment
- Python script launches cluster (easy!)
- Leaving nodes running gets to be expensive

This is in early testing now – it makes it a lot easier on end-users like yourself, but still has some gotchas!
Status: CESM2 on AWS (Future)

- Pre-installed environment
- Python script or portal launches environment
- Compute nodes allocated on-the-fly

This is in design, but a ways out – the big thing is idle compute nodes no longer exist. Less stress for students and PIs alike!
Tell us what *you* want!

- What would make your life easier?
- Science training?
- Technical training?

Thanks, and enjoy the tutorial!