Seminar 2025 - Quick presentation Olivia Proust



Bretagne-Pays de la Loire École Mines-Télécom

About me

- Bachelor's degree University of Orléans
 - Research internship
 - O. Proust and F. Loulergue. « Verified Scalable Parallel Computing with Why3 », 2023





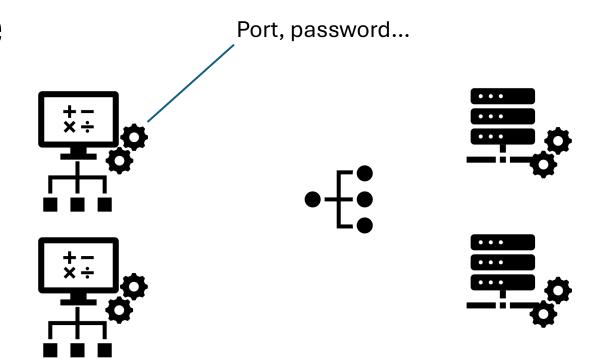
- Master's degree University of Rennes
 - Industry internship : Covéa MMA

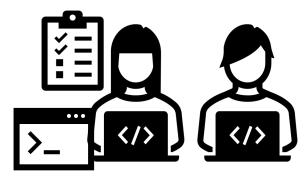




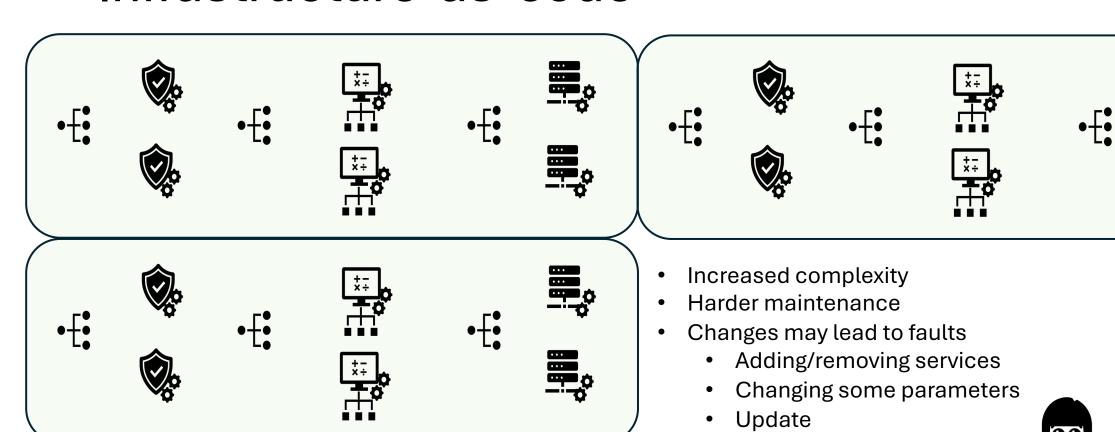
Infrastructure-as-code

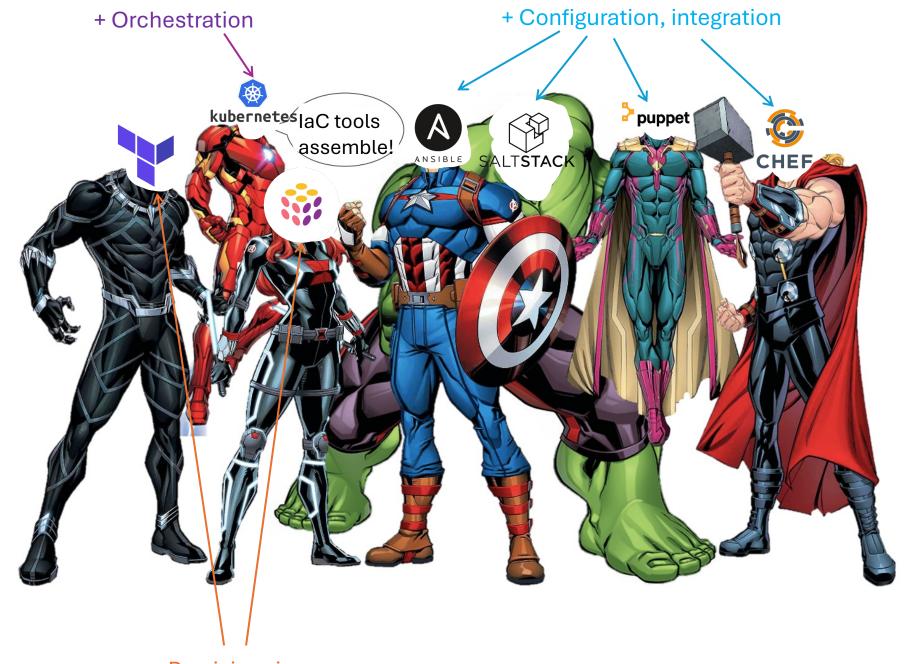






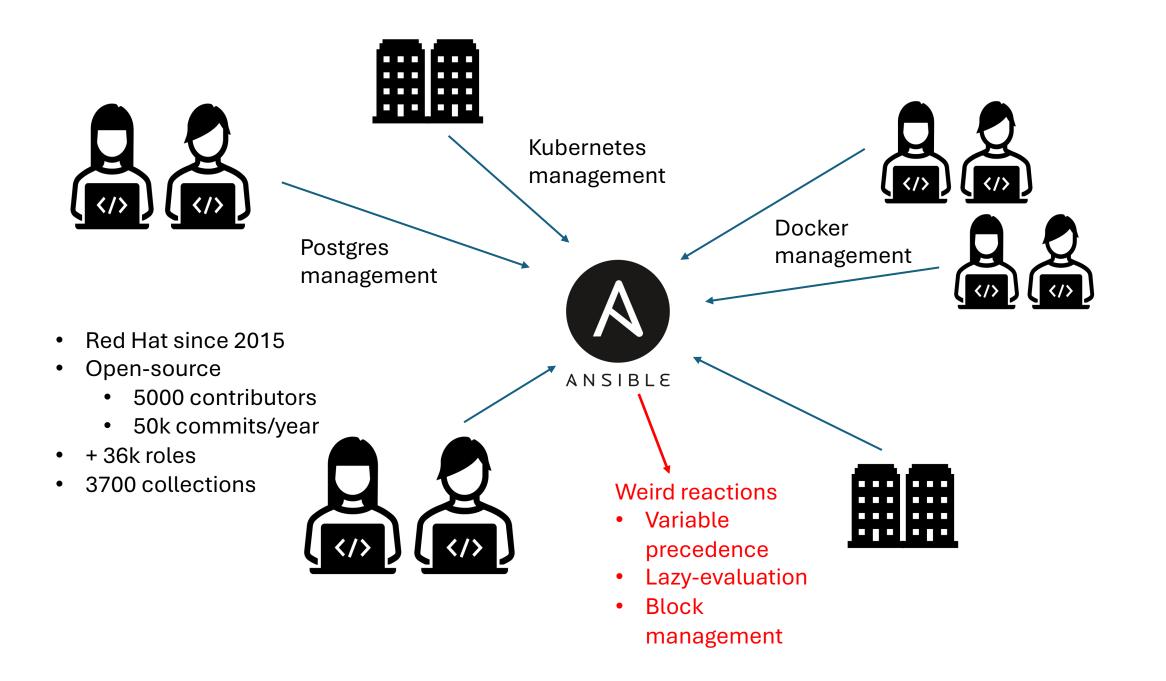
Infrastructure-as-code

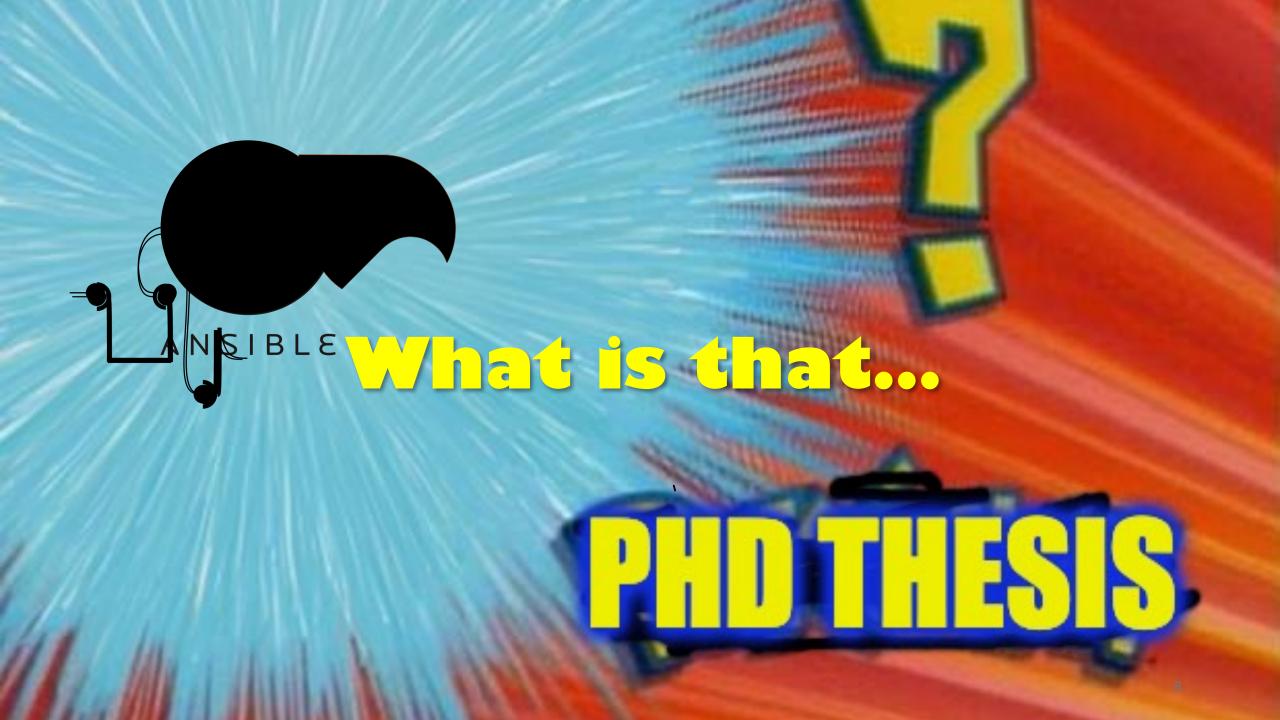




- Use code to manipulate infrastructure
- Comes with a lot of pratics
 - Versionning
 - CI/CD
 - Component based
- Reusability, Scalability

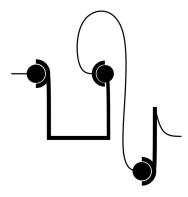
+ Provisionning











- ANR For-CoaLa
 - Improve understanding of Ansible language
 - Produce open source formally certified configuration language
 - Generation of certified code
- Co-directed by
 - Helene Coullon
 - Frederic Loulergue (LIFO LMV University of Orléans)
- Co-supervised by
 - Jolan Philippe (LIFO LMV University of Orléans)
- Formalize a subset of Ansible (µAnsible)
 - Ansible core
 - No module
- Verify it on Rocq
 - Generation of certified code.
- Leveraging Concerto within Ansible
 - CoAnsible

Thank you for your attention.