
GSoC 2018: Lightweight Sites Project

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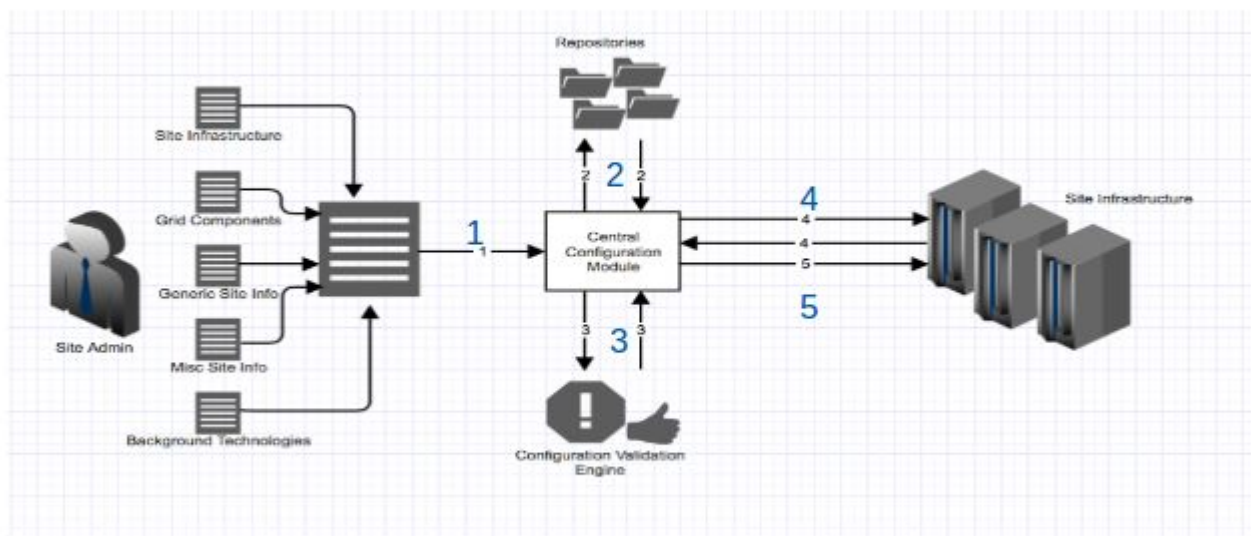
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Overview

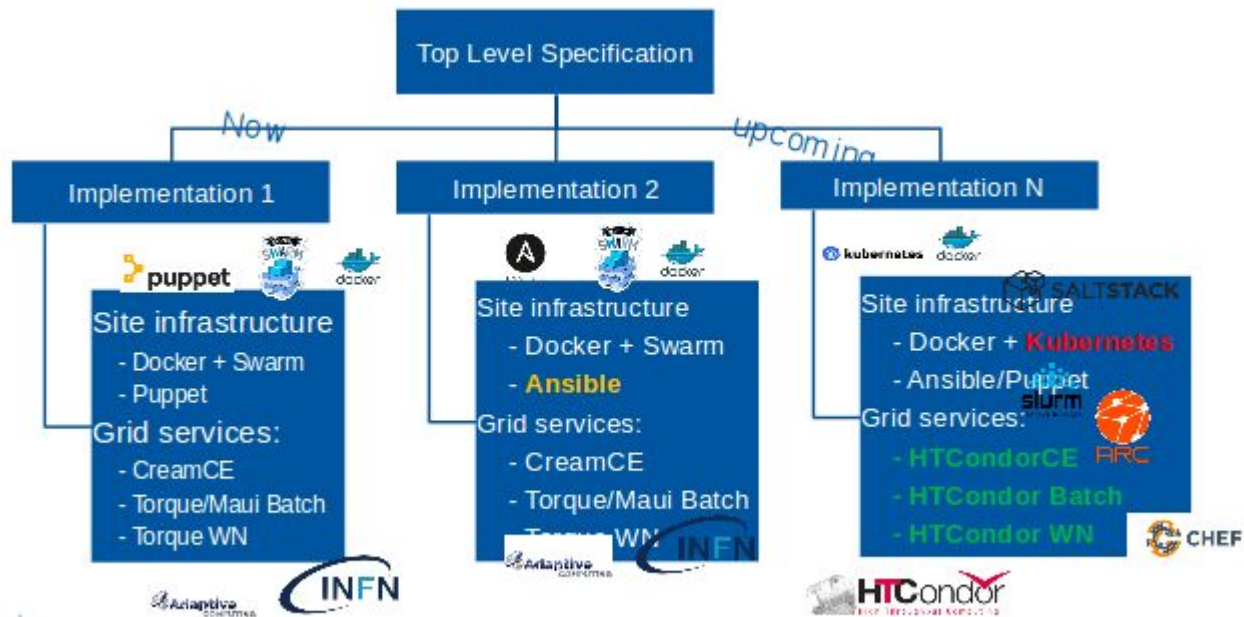
Lightweight Sites is a project at CERN that enables the quick setup of new sites on the grid. During GSoC, I contributed to this project by implementing an Ansible module that would perform level 1 configuration. I also contributed to an Ansible module for level 2 configuration which would replace YAIM configuration.

Project Overview

Specification: Putting it Together



Technology Stack



Contributions

- [SIMPLE Grid YAML Compiler](#)
 - [Torque WN Level-2 Configurations](#)
 - [WLCG Ansible Module](#)
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Outcome

- Working with multiple technologies in domains of Infrastructure provisioning (AWS, DigitalOcean), container orchestration (Docker, Swarm), configuration management (Ansible, Puppet) and regular development (Python)
 - Successfully validated that the architecture of SIMPLE framework can support multiple technologies that achieve similar goals w.r.t configuration management.
 - Provide an alternate implementation of Central Configuration Module, that glues together all components of the SIMPLE framework.
 - This ansible module is on the technical roadmap for upcoming releases.
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Thank you
