ESGF Installer Status Update

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Outline

- 2017 IWT Accomplishments

- IWT Roadmap

2017 IWT Accomplishments

- There were two minor versions of ESGF released this year, version 2.4 and version 2.5. Each of these versions also had numerous patch releases to improve security and stability

- The Installer is currently at version 2.5.17

- Version 2.0 of the ESGF Build script was released

- The next major version of ESGF, 3.0 is nearing Alpha release. It is a complete rewrite of the ESGF installation stack.

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2017 IWT Accomplishments

- New process were created for tracking and reporting issues in the ESGF codebase

- The automated testing suite was updated

- Began creating a continuous integration pipeline

2.4 Version Release

ESGF 2.4.24 Release Notes and Manifests

Infrastructure
1. setup-autoinstall script self-terminates.
2. jar_security_scan updated.

CoG
1. Updated to Django 1.9.12. Detailed release notes available at:
https://www.earthsystemcog.org/projects/cog/download/

Solr
1. Upgraded to version 5.5.3

Globus
1. Not updated

UVCDAT
1. Not updated

TDS
1. Updated to version 5.0.1

ESGF Security
1. Upgraded apache commons-collections to 3.2.2

ESGF Identity Provider
1. Upgraded apache commons-collections to 3.2.2

ESGF OpenID Relying Party
1. Upgraded apache commons-collections to 3.2.2

ESGF Search
1. Upgraded solr to version 5.5.3

LAS
1. Updated to version 8.4.1.

- Version 2.4 of ESGF was released in January 2017

- It featured updates to the ESG Publisher, ESG-Search, and COG

- A Certificate Policy and Certification Practice Statement (CP/CPS) was delivered, with an aim to regulate CA practices on ESGF.

- An application was developed, to display the CA's CP/CPS, and lists of signed and revoked certificate.

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2.5 Version Release

ESGF 2.5.17 Release notes and manifest

SOLR
- Upgraded to 5.5.4 Java
- Upgraded to 1.8.0_144 Tomcat
- Upgraded to 8.5.9 TDS
- Upgraded to 5.0.2 CDAT / CDMS
- Deployed via Conda (see package list for version information)

Apache Frontend
- Versioning added
- Upgraded to 1.0.8 CoG
- Upgraded to 3.9.5

ESGF Node Manager
- First deployment of Django web app (WSGI) and esgfnmd (daemon)
- Version 1.0.0

ESGF Security
- Upgraded to 2.5.17

ESG ORP
- Upgraded to 2.9.7

ESGF IDP
- Upgraded to 2.7.11

ESG Search
- Upgraded to 4.13.4

ESGF Dashboard
- Redeployed
- Upgraded to 1.5.4
- Schema updated (without .egg version change)

ESGF Stats API
- First deployment (Tomcat Webapp)
- Version 1.0.1 LAS
- Upgraded to 8.6.4 ESG Publisher
- First version to run under Conda
- PID / PrePARE / CIM integrated
- Updated CMIP6 handler
- Upgraded to 3.2.7

- Version 2.5 of ESGF was release in June 2017

- There have been several patch releases since the initial production version, with the current version being 2.5.17

- Version 2.5 featured significant changes to several components in preparation for publishing CMIP6 data

- Autoinstaller revamped and streamlined

ESGF Build Process

- The ESGF Build process has been condensed from 10 scripts to one.

- It was ported from Bash to Python

- A menu interface was added to make it easier to build individual components

- The codebase and documentation was refactored for greater readability

- [ESGF Build API Documentation - Github Pages](#)

Issue Tracking and Reporting

- Github Issues is now the definitive source of reporting issues and tracking new features

- A set of guidelines were created for reporting new issues when they are discovered

- We have also integrated the Github issue tracking with Slack, the team communication tool

- ESGF Installer Issue Tracking Guidelines

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ESGF 3.0

- A full refactor of the ESGF installation stack has been in development and has nearly reached an Alpha release

- The entire installation script is being rewritten in Python 2.7

- In addition to being ported to Python, the code base is being refactored to be more modular and more testable.

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ESGF Installer Roadmap

- Develop new Python-based script for ESGF Installation

- Implement continuous integration pipeline

- Upgrade Installer to support Redhat/CentOS7 and Python 3

- Streamline documentation for contributing and installing