

# ASCIG Needs and Requirements

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# ASCIG in a Nutshell

- ASCIG (ATLAS Software & Computing Infrastructure Team) develops and operates the hardware and software infrastructure that supports all S&C activities in ATLAS:
  - Gitlab software repository
  - Continuous Integration and Nightly Build system for a variety of Projects, Platforms and Compilers
  - Installation of nightly and numbered releases in CVMFS
  - ART (ATLAS Release Tester) framework
  - Run environment for ATLAS software
  - Central server support for all ATLAS-managed computing services
  - Software quality checks

# ASCIG Personpower

- ASCIG is chronically short of experienced people, and year after year this situation worsens as people leave and nobody new joins the team.
- At the beginning of 2021 we discussed the possibility to set up a long-term project to have a sequence of trained students coming to CERN to:
  - support software quality tools such as CPPcheck and Coverity,
  - (at the same time) help the existing people with the management of the hundreds of central servers when needed.
- This plan is feasible if newcomers
  - get appropriate training in Linux system administration prior to coming to CERN,
  - further improve their knowledge at CERN,
  - pass it back to next person when back home, while still supporting remotely the CPPcheck and Coverity servers until the next person is proficient and efficient.

# GTU Help for ASCIG

- The schema described in the previous slide can only work if the person who comes to CERN has a good operational understanding of the management of a Linux cluster and all issues that could pop up any time, including emergency security actions.
  - On a reduced scale, support for CPPcheck and Coverity servers can be provided by people operating remotely and part-time, as after the first setup phase the management of these servers should not require much effort.
- Any level of help is useful for ASCIG, provided that it is given by people with appropriate training. As always, GTU students are welcome to gain operational experience by working with ASCIG, after discussing their interests, abilities and level of commitment with the ASCIG coordinators.