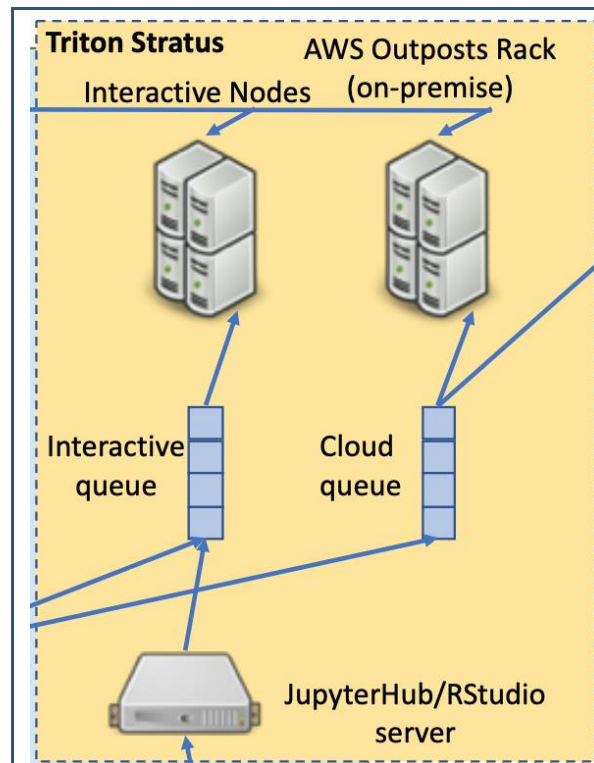# Quad Chart for: *CC* Compute: Triton Stratus*

Challenge Project Seeks to Address:

- Increasing use of interactive tools such as Jupyter Notebooks and RStudio
- Attracting researchers used to GUI/portal-driven interfaces
- Facilitating, simplifying use of cloud computing for campus researchers
- Integrating with and scaling to commercial cloud resources for elastic HPC

Deliverables:

- 28 new cluster nodes for interactive use
- Software for migration of scientific apps to commercial clouds
- User GUI (JupyterHub, Open OnDemand)
- Cloud integration for scaling tested notebooks/scripts
- On-premise cloud appliance (Amazon Outposts) for low-latency cloud testing and access
- OSG integration to campus cluster

Broader Impact:

- Reach new generation of researchers
- Support reproducible research
- Improve training & outreach for scientific computing
- "Living" documentation as means of communicating research broadly

Metadata tag:

- *< https://www.sdsc.edu/services /hpc/hpc_systems.html#tscc >*
- *< Just getting started! >*
- *< Your input welcome! >*
- *< Student engagement >*