SciGaP: Apache Airavata Hosted Science Gateways
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Introduction

The Science Gateways Platform provides Apache Airavata as a service (https://scigap.org/) for building and hosting science gateways for managing the execution of scientific applications on diverse computing resources, capturing metadata about computational experiments, and sharing results with collaborators. SciGaP gateways represent a diverse group of scientific communities, including campus gateways, science domain gateways, and software-as-a-service gateways.

SciGaP will host, manage, provide basic storage for the gateway.

Ability to submit jobs to XSEDE resources, campus resources and cloud resources.

A generic gateway user interface which can be customized as per the needs of the client.

Gateway can integrate to use campus authentication for users.

The gateway has interfaces for both gateway administrators and end users.

Can seamlessly add/remove/update resources, applications without disrupting user experience.

Build your Gateway

The SciGaP service provides hosted services to support gateways. We run the services so you can focus on your community.

- Request a gateway from SciGaP.org
- The SciGaP team will work with you to integrate your local computing and storage resources into your gateway.
- XSEDE resources are centrally available for gateways to use right away with their allocations, community accounts.
- SciGaP team provides initial consultation for the gateway PI/admin on gateway functionality familiarization.

- SciGaP provides up to 1 month detailed technical support for gateways to get up and running, followed by optional bi-weekly support calls.
- Gateways requiring more extensive consultations can request Science Gateway Community Institute support. Examples include custom Web interfaces and desktop client integration.
- Gateway admins are provided with Admin Dashboard to support their users, from activating their accounts to troubleshooting issues with executions in HPCs.

Collaborations

https://scigap.org/pages/collaborations

SciGaP Client Gateways

- dREG provides a software-as-a-service gateway that efficiently delivers the developers’ bioinformatics applications on XSEDE resources.
- The University of South Dakota campus gateway gives USD users simplified access to a range of popular scientific applications installed on campus clusters.
- SEAGrid.org integrates Web and desktop clients to support advanced usage of computational chemistry and engineering applications.
- The SimVascular Gateway is a software-as-a-service gateway used to deliver SimVascular for classroom usage.

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