SPI-14: Report resource usage against allocations

A **service provider** needs to establish the mechanism for reporting use of the service provider's resources against allocations. We assume the service provider participates in a public research computing community that allocates resource use to specific individuals, teams, or projects.

In most cases, the researcher expects it to work as follows.

1. First, the service provider visits the community's website or portal for service providers and finds the documentation for the service provider's accounting services, locating specific instructions for resource usage reporting.
2. Then, the service provider gathers any resources needed to carry out the instructions.
3. Then, the service provider follows the instructions to configure the resource's accounting system so usage reports can be generated and delivered to the community.
4. Finally, the service provider works with community support personnel to test the resulting configuration and validate the resulting reports and their delivery to the community.

We'll accept any solution as long as the following are true.

1. Steps 1 and 2 can be done using a standard web browser.
2. For clarification, the process for Step 2 may involve downloading and installing software required by the community.
3. For clarification, a wide range of community processes are acceptable for Step 3. The ideal solution would be as simple as possible for the service provider. Complex or costly procedures are allowable but discouraged.
4. For clarification, the process for Step 4 may be 100% manual (unassisted by the system) as long as documentation describing it is available in Step 1.

SPI-15: Configure notifications regarding resource allocations and individual users

A **service provider** needs to configure receipt and processing of notifications about new/expired allocations and individual users on a resource so the SP can establish accounts on the resource for each allocation. We assume the service provider participates in a public research computing community that allocates resource use to specific individuals, teams, or projects. Notifications include both new and expired allocations, and both new and no-longer-needed user accounts.

In most cases, the service provider expects it to work as follows.

1. First, the service provider visits the community's website or portal for service providers and finds the documentation for the service provider's accounting services, locating specific instructions for receiving and processing notifications from the community regarding new/expired allocations and individual users related to allocations.
2. Then, the service provider gathers any resources needed to carry out the instructions.

3. Then, the service provider follows the instructions to prepare the service providers systems to receive and process notifications from the community.
4. Finally, the service provider works with community support personnel to test the resulting configuration and validate the expected behavior for various types of notifications.

We'll accept any solution as long as the following are true.

1. Steps 1 and 2 can be done using a standard web browser.
2. For clarification, the process for Step 2 may involve downloading and installing software required by the community.
3. In Step 3, the service provider is free to define what "processing notifications" means for his/her resource(s). It must be possible to include human-in-the-loop processes, local policy checks (and resulting modifications), or fully-automated processing, depending on the needs of the service provider.
4. For clarification, a wide range of community processes are acceptable for Step 3. The ideal solution would be as simple as possible for the service provider. Complex or costly procedures are allowable but discouraged.
5. For clarification, the process for Step 4 may be 100% manual (unassisted by the system) as long as documentation describing it is available in Step 1.