

Expanse User Portal

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SDSC

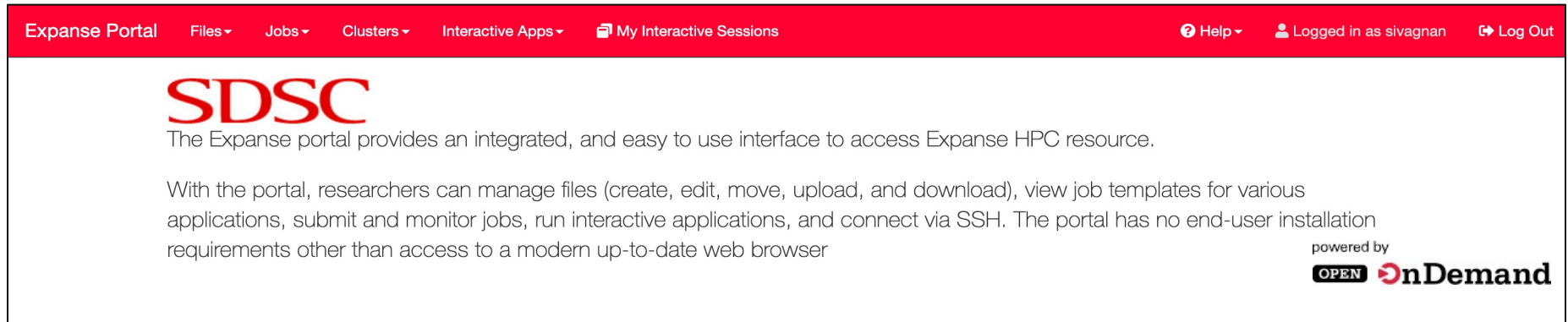
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EXPANSE
COMPUTING WITHOUT BOUNDARIES

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Expanse User Portal – Gateway to Expanse Resource



The screenshot shows the Expanse User Portal interface. At the top is a red navigation bar with the following links: Expanse Portal, Files (with a dropdown arrow), Jobs (with a dropdown arrow), Clusters (with a dropdown arrow), Interactive Apps (with a dropdown arrow), and My Interactive Sessions (with a folder icon). On the right side of the bar are links for Help (with a question mark icon), Logged in as sivagnan (with a user icon), and Log Out (with a logout icon). Below the navigation bar, the SDSC logo is displayed in red. Underneath the logo, a paragraph states: "The Expanse portal provides an integrated, and easy to use interface to access Expanse HPC resource." Another paragraph follows: "With the portal, researchers can manage files (create, edit, move, upload, and download), view job templates for various applications, submit and monitor jobs, run interactive applications, and connect via SSH. The portal has no end-user installation requirements other than access to a modern up-to-date web browser." In the bottom right corner, there is a logo for "powered by OPEN OnDemand", where "OPEN" is in a black box and "OnDemand" is in a stylized font.

- Web portal to access Expanse resource
- Integrated job and file management platform
- Built using NSF-funded Open OnDemand

Expanse Portal Features

- ***File management***
 - managing files on HOME, Lustre scratch directory
 - *File editor* - Edit and save files without the need to launch a shell session.
- ***Job submission and monitoring interface***
 - Create, submit job scripts and monitor jobs.
 - Example job templates provided
- ***Interactive access*** for Matlab, Rstudio, Jupyter applications
- ***Command-line shell access***
- ***User information (allocation & usage info)***

No end-user installation requirement to use the Portal

Using Expanse Portal

- Valid Expanse allocation and XSEDE based credentials needed for access
- Policy (scheduler, allocation, usage etc) and guidelines set on Expanse resource is applicable while using Portal.
- <https://portal.expanse.sdsc.edu>

Demo