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GW data analysis on the ESCAPE Virtual Research Environment

I will present the ESCAPE Virtual Research Environment (VRE), focusing on how an R&D gravitational wave pipeline, the Wavelet Detection Filter (WDF) can be run entirely in the ESCAPE Virtual Research Environment (VRE). The ESCAPE VRE is a modular, scalable platform to streamline scientific analysis, minimizing software environment setup and data discovery times. It is composed of an authentication and authorization infrastructure (AAI) layer and a customizable jupyterhub interface with pre-loaded environments. Data can be accessed on the VRE leveraging the Rucio distributed data management solution. The presentation will guide the user through the individual steps to run the WDF pipeline, from authentication, to data discovery and analysis reproducibility.

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