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Evolving High Rate Analysis infrastructure with seamless offloading on different type of providers

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The current High Rate Analysis platform that is being implemented offers a general purpose environment where analyzers can scale up computations within the size of the instantiated cluster that possibly scale within the provider. However, in order to handle potentially a huge amount of users with diverse use cases, we plan to evolve the general purpose infrastructure toward the offloading model. As a result the platform will be enabled to dynamically (on-demand) exploit all kinds of resources (HTC, HPC, Cloud) with almost no effort and transparently for the user. The technical plan is to adopt and enhance the existing prototype such as interLink [1] that generalizes the Virtual Kubelet concept and use. This is how we foresee the efficient use of the ICSC computing resources. In this presentation, the idea, the main concepts and possible work plan will be presented.

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