Authenticated control to VMs in Xen cloud

The Xen Cloud is an open source virtualization system and cloud computing platform. Xen Cloud is based on Xen Hypervisor that supports a range of guest operating systems such as Windows and Linux, network, and storage. Indeed, it addresses user requirements for security, availability, performance and isolation. By combining the isolation and multi-tenancy capabilities of the Xen hypervisor with enhanced security, storage and network virtualization technologies to offer a rich set of virtual infrastructure cloud services. Consequently, Xen API projects are needed to configure, manage and control Xen Cloud Platform (XCP) including the virtual machines. In fact, there are a number of management tools that use Xen through Xen API as part of XCP; however, for educational purpose, we need a XEN API to control XPC and VMs in a way that is easy and secure. This idea requires that the API can be accessible by only authenticated users who do not have an account on the host itself.  Our objective in this project is to
implement a command line-based XenAPI that implies an authenticated
procedure that ensures the consistency, availability, and integrity to XCP and VMs.