A company ABC has large datacenters across locations within a country. Due to budget constraints, it has not been feasible to recruit teams across the locations to take care of each datacenter. Since all the DCs are connected via SDWAN, and accessible remotely, it has been managed by a single core team. Out of the various day to day operations of the IS team that can be automated, a major one is the annual power shutdown maintenance activity. The important part of the activity is the graceful powering off of all the virtual machines and services, within a short span of time, before powering off the host.

Requirement:

1. Take an inventory of the deployed hypervisors and virtual machines with the states.
2. Automatically shut down the virtual machines and the hypervisors.
3. Post shutdown activity, start up the necessary hosts and virtual machines based on previously collected inventory.
4. You can create a Web based application interface to do this automation .

Input:

1. Students are expected to use VMware technology and program using any programming language(Python, PowerCLI, etc) with use of VMware CLI.
2. VMware Workstation can be used to deploy hypervisors and virtual machines.
3. VMware ESXi ISO will be provided.

Evaluation method will be based on the ability of the solution to collect inventory for various host versions and virtual machine states and successfully being able to complete the shutdown / startup activity based on collected inventory

Important Note: For Round 2 Submission Only, solution document is required no working model/configuration.