

A Report on
"FDP on VMware vSphere: Skills for Operators" by
ICT ACADEMY, An Initiative of Government of India, State Govt and Industry

A 5-Day Faculty Development Program on VMware vSphere: Skills for operators by ICT ACADEMY, An Initiative of Government of India, State Govt and Industry. This program has driven by Mr. Shanmughavel.S, Training Manager - South 2 Educational Technology. The following topics were experienced.

- **Day1:**
Session began with explanation of Virtualization Overview, Data Center virtualization and benefits of Virtual Machines. We experienced the practical exposure about the Installation of ESXi
- **Day2:**
Session began with discussion of the differences between vSphere Client and vSphere Web Client. We got the practical exposure about the creation of virtual Machines, Installation of a guest windows 7 operating system on the Virtual Machine. Finally all the participants were able to open a Virtual Machine Console in the VMRC.
- **Day3:**
Session continued on how to register and remove virtual machines from the inventory, Manage virtual machine snapshots, Resource monitoring concepts and also described virtual machine CPU utilization, memory utilization concepts. At the end of the session he explained how to monitor and manage alarms in vCenter Server.
- **Day4:**
Session continued by applying the DAY3- activity where every one installed a guest windows XP operating system on the Virtual Machine of another ESXi. Participants created a cluster by two more ESXi and one server, creation of vApp, Add virtual machine to vApp. Also experienced how to migrate virtual machines across virtual switches, VMware vCenter Server systems, and long distances. He explained the benefits and functions of a vSphere DRS cluster and also explained about the vSphere DRS cluster options and settings available to manage your vSphere environment, Create, manage and monitor a vSphere DRS cluster.
- **Day5:**
In continuation to DAY4-activity we installed an application called notepad++ in vApp and experienced the migration of notepad++ in another virtual machine, cloning, Templates and content Libraries, described the virtual machine cloning process, described virtual machine templates and how they differ from virtual machine clones, create virtual machine clones and templates, customize a guest operating system, Described OVF templates and their use, Define the content library. Real time case study of AWS Cloud was demonstrated and also experienced remote desktop client in mobile as well as Desktop. The main benefits of VMware virtualization is the process of installing multiple operating systems for one or more workstations or servers on to a single physical machine which is inexpensive and more efficient.

- ✓ This FDP was very much beneficial for the faculty for improving their practical approach towards the various theory topics in curriculum.
- ✓ This knowledge which we gained in this FDP will definitely helpful to guide the students in their projects.
- ✓ We further apply this knowledge gained in the FDP for developing Desktop virtualization which will help the colleges to utilize older PCs and also for building Examination branch server virtualization which increases system reliability and provides better security.

Photos



