



“Three day Hands-on Workshop on VMware”

29 - 31 October, 2018

Sponsored by:
TEOIP-Phase III in association with VSSUT, Burla, Odisha

Venue:
Ramanujan Computing Hall
Dept. of CSE, UCE(A),
Osmania University



Organised by:
Department of Computer Science and Engineering
University College of Engineering (A),
Osmania University, Hyderabad-500007
osmania.ac.in | uceou.edu



REGISTRATION FEE:

Industry / Faculty	Rs. 3000
Full Time Ph.D. Scholar / M.Tech Students (With permission Letter from Head of the Department)	Rs. 1000

Candidates must pay the registration fee through DD in favor of "The Head, Dept. of CSE, University College of Engineering(A), Osmania University". The registered candidates have to fill the details provided in the link <https://bit.ly/2ytRWyU> or from the link at uceou.edu website on or before 25/10/2018. DD can be submitted on the day of Inaugural (29/10/2018). Confirmation of eligible candidates will be on first come first serve basis as seats are limited. Accommodation will not be provided.

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Vice Chancellor,
Osmania University, Hyderabad.

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About Us

The Department of Computer Science and Engineering was established in the year 1985. The Department offers undergraduate courses in CSE, Master's and Doctoral programmes in Computer Science and Engineering. The courses are offered on full-time as well as on part-time basis. The Department is recipient of grants from UGC, DST and AICTE. The department is recipient of World Bank aided Project-IMPACT and member of NETWORK project funded by Swiss Development Corporation. The department is recipient of World Bank assistance under TEQIP phase-I, phase-II and phase-III. The Department has been in forefront for research and training activities in Cloud Computing, Data Mining, Image Processing, Information Retrieval Systems and Parallel Processing Application areas

About Workshop

VMware Infrastructure is a full infrastructure virtualization suite that provides comprehensive virtualization, management, resource optimization, application availability, and operational automation capabilities in an integrated offering. VMware Infrastructure virtualizes and aggregates the underlying physical hardware resources across multiple systems and provides pools of virtual resources to the datacenter in the virtual environment.

In addition, VMware Infrastructure brings about a set of distributed services that enables fine grain, policy driven resource allocation, high availability, and consolidated backup of the entire virtual datacenter. A typical VMware Infrastructure datacenter consists of basic physical building blocks such as x86 computing servers, storage networks and arrays, IP networks, a management server, and desktop clients.

This hands on workshop would be extremely useful to understand the management of these building blocks.

LEVEL 1:

29th OCTOBER 2018

WHITE BOARD SESSION 1 :: 9.30 am – 11.00 am

1. Explain about VMware Virtualization
2. Explain vCenter server
3. Explain vCenter server features
 - o vMotion
 - o vSphere High Availability (HA)
 - o vSphere Distributed Resource Scheduler (DRS)
 - o vSphere Storage DRS
 - o vSphere Distributed Power Management (DPM)
 - o vSphere Fault Tolerance
 - o vSphere Distributed Switch (VDS)
 - o Template
 - o Clones
 - o Snapshot

SESSION 2 :: 11.15 AM – 01.30 PM

4. Explain About V Realization Operations
5. Explain About V Log insight

HANDS ON SESSION 3 :: 2.00 PM – 3.00 PM

6. Installing ESXi.
7. Accessing ESXi from web console

HANDS ON SESSION 4 :: 3.00 PM – 4.00 PM

8. Creating AD & DNS
9. Installing vCenter Server

On 30th OCTOBER 2018

HANDS ON SESSION 5 :: 9.30 AM – 11.00 AM

10. Accessing Vcenter Server
11. Adding ESXi Hosts
12. Adding Shared Storage

HANDS ON SESSION 6 :: 11.15 AM – 01.30 PM

13. Creating Virtual Machine
 - a) Adding Memory
 - b) Adding Hard disk
 - c) Adding CPU's
 - d) Enable memoryHot add
 - e) Enable CPU's Hot add
 - f) Installing OS
 - g) Changing Static IP address
14. Adding VM into Domain

LEVEL 2:

HANDS ON SESSION 7 :: 2.00 PM – 3.00 PM

15. Creating Template
16. Create VM from Virtual Machine
17. Create Clone
18. Create VM from Clone

HANDS ON SESSION 8 :: 3.00 PM – 4.00 PM

19. Hot Migration (Migrate the powered on Virtual machine from One Server to another server)
20. Cold Migration (Migrate the powered off Virtual machine from One Server to another server)

ON 31st OCTOBER, 2018

HANDS ON SESSION 9 :: 9.30 AM – 11.00 AM

21. Enable High availability
22. Enable DRS
23. Create Snapshot
24. Manage Snapshots

HANDS ON SESSION 10 :: 11.15 AM – 01.30 PM

25. ESXi Maintenance Mode
26. Adding additional disk to the Virtual machine
27. Reset ESXi password