

Getting Started in IT

OVERVIEW

Release date: January 1, 2021

Micro-course length: From 4 hours onwards

Micro-course format: Online accessible through Kivuto, or D2L

Delivery: Instructor-led or self-paced

Upon completion: Users will be ready for the various Core Technical Skill course tracks

Summary

Through VMware IT Academy, "Getting Started in IT" provides an overview of the key concepts related to the world of IT. Upon completion of this micro-course, the learner will have the basic understanding of compute, software, datacenters, cloud. Additionally, the learner will be able to set up a virtual machine and create a web page in html. As outcomes the student will learn the basic IT concepts, and be able to set up a small-scale datacenter themselves:

- Virtual network
- DNS server
- File Server
- Web Server
- VPN Server
- Firewall
- E-mail Server

Prerequisites

Learners should be proficient in the English language.

Target audience

- o Upper-secondary students
- o Community college/technical college
- o College and university
- o Technical learners/professionals



Modules

- A. Basic IT Concepts
 - 1. Computer Components
 - 2. Binary
 - 3. Operating Systems
 - 4. Applications
 - 5. Software Development
 - 6. Networks
 - 7. Virtualization
 - 8. Data Centers
 - 9. Cloud Computing
 - 10. Cyber Security
 - 11. Containers*
- B. Virtualization Hands-On
 - 1. Create a Virtual Machine
 - 2. Verify Connectivity
 - 3. Deploy an Operating System
 - 4. Sharing files between Host and VM
 - 5. Managing Virtual Machines
- C. Operating Systems Hands-On
 - 1. Files and Folders Best Practices
 - 2. Basic CLI Commands
 - 3. Install and Uninstall Applications
- D. Networking Hands-On
 - 1. OSI Layer 1: Physical
 - 2. OSI Layer 2: Data Link
 - 3. OSI Layer 3: Network
 - 4. OSI Layer 4: Transport
 - 5. OSI Layer 5,6,7: Session, Presentation, Application
 - 6. Firewalls and Next-Gen Firewalls
- E. HTML & WWW Hands-On
 - 1. Internet Infrastructure
 - 2. Web Servers
 - 3. HTML Basics
 - 4. HTML Page Creation 1
 - 5. HTML Page Creation 2
 - 6. HTML Editors
- F. Intrinsic Security Hands-On
 - 1. Cybersecurity and intrinsic security
 - 2. Security solutions
 - 3. Encryption
- G. Containers Hands-On
 - 1. Container virtualization
 - 2. Container images
 - 3. Container applications

* To be released soon:

- Setting up VM networking
- Setting up a file server
- Setting up a VPN
- Setting up a DNS server
- Setting up a Firewall
- Setting up a E-mail server
- Accessing your servers from the internet

For additional information, please contact
itacademy@vmware.com.