Windows 10, installation et administration

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BPC-67   4 Days (28 Hours)

Description

This training will teach you how to install and administer Windows 10, the new Microsoft operating system for client workstations. Thanks to numerous practical exercises, you will learn how to configure and optimize the system in order to obtain the best performance. You will see how to perform common administration tasks, share and synchronize data between users and applications, and implement Windows 10 technologies to secure network connections and data for different sedentary or nomadic users.

Who is this training for ?

For whom

Systems and network technicians, administrators and engineers.
Prerequisites

Aucune

Training objectives

- Know the main new features of the new Windows 10 operating system Install, configure and configure a computer with Windows 10 Customize the working environment: adding components to MMC consoles, its user space Perform common administrative tasks with Windows 10 Install and uninstall programs with Windows

Training program

Présentation et installation de Windows 10

(+212) 5 22 27 99 01
tel

whatsapp (+212) 6 60 10 42 56

Contact@skills-group.com
email

email

Corner of bd Abdelmoumen and rue Soumaya, Shehrazade 3 Residence, 7th floor N° 30, Casablanca 20340, Morocco

email We are at your disposal : De Lun - Ven 09h00-18h00

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- Positioning of Windows 10 in the Microsoft offer.
- The different versions.
- Hardware prerequisites.
- Types and methods of installation, upgrade to Windows 10.
- Setting up a dual boot.
- Updating to Windows 10 from a previous version.
- License management and new authentication process.
- Range of supported processors.
- Recommendations and post-installation settings.
- Booting from 'a USB source, file sharing or WDS (Windows Deployment Services).
- Practical work Installation of Windows 10.

Déploiement de Windows 10

- Solutions offered by Microsoft (ADK, MDT, WDS).
- Capturing a Windows 10 image.
- Preparing and creating WIM images.
- Customizing a WIM image (adding drivers or software).
- Installing Windows in a VHDx (creating, deploying, booting, mounting.
-).
- Boot options (WIM/PE and WIM/PE).
- Automate deployment methods.
- Native support for ISO and VHDx files under Windows 10.
- Migration of user profiles.
- Practical work Preparation and creation of WIM images, installation of Windows 10 in a VHDx.

Configuration du matériel et des logiciels

- Device management (update, uninstallation, signing.
-).
- Device management in USB 3.
- 0.
- Checking hardware compatibility.
- Setting up software restriction policies.
- Configuring web browser security.
- Hands-on Installation and configuration of device drivers.

Environnement de travail

- The new features of the Windows 10 interface.
- The new Start menu, the Internet browser.
- Virtual desktops.
- Convergence mobile interfaces for tablets and PCs.
- Visual passwords (by image), by PIN code.
- Improve desktop performance.
- hidden shortcuts.
- The task manager (simple and detailed views) and its heat map.
- The registry.
- Practical work Take control of the user environment.
- Personalization of the workstation.

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Mise en place de la connectivité réseau

- Configuring TCP/IP network settings.
- Support name resolution for TCP/IP.
- Configuring network settings.
- Configuring the wired or wireless connection.
- Setting up the firewall.
- Advanced firewall configuration.
- Remote administration.
- Introduction to PowerShell.
- Hands-on Network configuration.
- IPv4 and IPv6 configuration.

Configurer l'accès aux ressources

- Configuring Windows 10 resource sharing.
- Data recovery and user profile, user data migration (USMT).
- Setting access permissions to shared resources.
- Setting up the home group (HomeGroup).
- Setting up a file encryption strategy (EFS).
- Setting file access permissions.
- Configuring User Access Control (UAC).
- Configuring authentication and authorizations (rights, smart cards, certificates .
-).
- Setting up BranchCache (shared caching of remote files).
- Practical work Sharing data between several machines , setting up Live account in Windows 10.

Optimisation pour l'informatique mobile

- Setting up BitLocker (hard drives) and Bitlocker To Go (USB).
- Administering Bitlocker recovery keys.
- Introducing DirectAccess.
- Optimization of mobility functions (power and cache of file shares).
- Configuration of remote connections (VPN, NAP, Remote Desktop.
-).
- The online download store "Windows Store".
- Practical work Using the Live account in Windows 10.

Surveillance et maintenance

- Setting up the Windows 10 update strategy (Windows Update).
- Disk space management (dynamic disks, partitions.
-).
- Recovery options in Windows 10.
- Partition maintenance (defrag, extend, mount.
-).
- Contribution dynamic RAID (Stores Space).
- System monitoring (events, counters, alerts.
-).
- Configuring performance options (process priorities , memory.
-).
- Practical work Using system monitoring tools.

Sauvegarde et de restauration

- Using system restore points.
- Setting up a backup and recovery strategy.
- Configuring instant restore options.
- Practical work Using system restore points.

Gestion de la sécurité

- Windows 8 security overview.
- Setting the local security policy.
- Securing data with EFS and BitLocker.
- Configuring application restrictions, user account control (UAC and Live account).
- Firewall settings: profiles, standard mode and advanced mode.
- Security settings of Internet Explorer 10.
- Configuring Windows Defender.
- Specific settings for laptops.
- Practical work Apply a policy (gpedit.
- msc).
- EFS encryption.

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