UNIVERSITATEA BABEŞ-BOLYAI
BABEŞ-BOLYAI TUDOMÁNYEGYETEM
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TRADITIO ET EXCELLENTIA

Centrul de Cooperări Internaţionale

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TEMATICĂ ŞI BIBLIOGRAFIE

Concursul de ocupare a postului de Analist la Centrul de Cooperări Internaţionale

Tematica:

1. Reţele de comunicaţii date. Tipuri de reţea, topologii, componente. Adresare IP.

2. Rețele Wireless

3. Rețele VPN (IPsec, OpenVPN)

4. Sisteme de operare. Noţiuni generale privind sistemele de operare. Instalarea şi configurarea sistemelor de operare pe staţii de lucru şi configurarea echipamentelor periferice.

5. Administrarea serverelor. Administrarea serviciilor, diagnosticarea si rezolvarea defectelor.

   5.1. WindowsServer (Domain Controller, File Server)

   5.2. Linux:

      5.2.1. Instalare

      5.2.2. Servicii: HTTP (Apache), SMTP (Postfix), MySQL, Webmail

      5.2.3. Firewall

   5.3. Virtualizare (Proxmox, VMware, Hyper-V, VirtualBox, Xen)

6. Routere şi firewall-uri (vyos)

7. Analiza si prelucrarea datelor statistice.

Prof. dr. Sergiu MIŞCOIU

Director

Bibliografie:

1. **Computer Networks**, Andrew S. Tanenbaum, 5th ed., Prentice Hall, Massachusetts.
2. Xiao-Feng Li, **Advanced Design and Implementation of Virtual Machines**, 1st Edition, CRC Press, Tayler &Francis Group, 2017.
3. **ProxMox VE Administration Guide**, Release 5.1, oct.23, 2017, Proxmox Server Solutions Gmbh
4. **The Debian Administrator's Handbook**, Raphaël Hertzog and Roland Mas, http://debian-handbook.info
5. **Windows Sever Documentation**, https://docs.microsoft.com/en-us/windows-server/windows-server
6. **Regulament RoEduNet**, https://www.roedu.net/ro/page/regulament
7. **Documentatia Citrix XenServer,** https://docs.citrix.com/en-us/xenserver.html
8. Documentatia Microsoft Excel, https://support.microsoft.com/en-us/excel
9. Documentatia PHP, https://www.php.net/manual/ro/index.php
10. Documentatia JavaScript, https://developer.mozilla.org/en-US/docs/Web/JavaScript
11. Documentatia VyOS, https://vyos.io/resources/
12. Documentatia MySQL, https://dev.mysql.com/doc/

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