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ITE 449

Assignment 4

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I

$ldapsearch -h auth.example.com -p 8080

-x -D “cn=alyssa, cn=users, dc=auth, dc=example, dc=com” -W

-b “cn=users, dc=auth, dc=example, dc=com” “cn=rubble”

II

$ldap = ldap\_connect("ldap.example.com");

if ($bind = ldap\_bind($ldap, $\_POST['username'], $\_POST['password'])){

// log them in

} else {

// error message

}

**III *hypervisor***(also known as a virtual machine monitor) is a software layer that mediates between virtual machines and the underlying hardware on which they run.

* 1. VM:

# **rcctl enable vmd**

# **rcctl start vmd**

# **vmctl create -s 50G disk.qcow2**

vmctl: qcow2 imagefile created

# **vmctl start -m 1G -L -i 1 -r installXX.iso -d disk.qcow2 example**

vmctl: started vm 1 successfully, tty /dev/ttyp8

# **vmctl show**

ID PID VCPUS MAXMEM CURMEM TTY OWNER NAME

1 72118 1 1.0G 88.1M ttyp8 root example

* 1. Serial Console:

To direct the boot process to use the serial port as a console, edit /etc/boot.conf, enter:

# vi /etc/boot.conf

Edit / append as follows:

set tty com0

Append the following line to /etc/boot.conf (set baud rate to 115200):

stty com0 115200

Save and close the file. Reboot the server to test your configuration.

* 1. OpenBSDs vmd(8) is a Type 2 hypervisor
  2. Raw, qcow2, and qcow2-derived images

**IV *Cloud Computing*** is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user.

1. According to Digital Ocean, purchasing a Digital Ocean droplet(standard), with 1 GB of memory, 3 vCPUs, a 3 TB data transfer allowance, and 60 GB of storage is $15/mo or $0.022/hr. If we want to pay for this annually, we would multiply the 15 x 12, which gives us $180 a year for this package.