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Lab8

**Part A: Netlab2Links to an external site.**

**Complete lab NISGTC Linux+ Series 1 (Lab 02).**

**On "ALL" of the systems, for the below applications:**

**Find the versions and list the current version of that application**

**State what the application does**

**State how big the application is (size)**

Centos Server

* Grep
  + Version - 2.6.3 – 3.11
  + Size - 786805
  + Does what? – grep searches through textual input for lines containing a match to a specific pattern
* Sed
  + Version – 4.2.1 – 4.8
  + Size - 5333716
  + Does what? – SED is a stream or batch editor. It takes text input and performs operations on the text or output of modified text
* Awk
  + Version – NA – 1003.1
  + Size - NA
  + Does what? – not installed
* Curl
  + Version – 7.19.7 – 8.12.1
  + Size - 350903
  + Does what? - a tool for getting files from http, ftp, file, ldap, ldaps and so on servers using any of the supported protocols
* Iptables
  + Version – 1.4.7 – 1.8.11
  + Size - 719035
  + Does what? – controls the network packet filtering code in the linux kernal

Ubuntu Server

* Grep
  + Version – 2.10-1 – 3.11
  + Size - 596
  + Does what? - utility to search for text in files
* Sed
  + Version – 4.2.1-9 – 4.8
  + Size - 292
  + Does what? – sed reads the specified files or the standard input and makes editing changes according toa list of commands
* Awk
  + Version – N/A - 1003.1
  + Size – N/A
  + Does what? – not installed
* Curl
  + Version – 7.22.0-3ubuntu4 – 8.12.1
  + Size - 338
  + Does what? - a tool for getting files from http, ftp, file, ldap, ldaps and so on servers using any of the supported protocols
* Iptables
  + Version – 1.4.12-1ubuntu4 – 1.8.11
  + Size - 1237
  + Does what? – administration tools for packet filtering and NAT

Fedora Workstation

* Grep
  + Version – 2.12 – 3.11
  + Size - 1204770
  + Does what? – same as centos description
* Sed
  + Version – 4.2.1 – 4.8
  + Size - 532193
  + Does what? - same as centos description
* Awk
  + Version – N/A - 1003.1
  + Size – N/A
  + Does what? – not installed
* Curl
  + Version – 7.24.0 – 8.12.1
  + Size - 481686
  + Does what? - same as centos description
* Iptables
  + Version – 1.4.12.2 – 1.8.11
  + Size - 901553
  + Does what? - same as centos description

Ubuntu Workstation

* Grep
  + Version – 2.10-1 – 3.11
  + Size - 596
  + Does what? – Same as ubuntu server
* Sed
  + Version – 4.2.1-9 – 4.8
  + Size - 292
  + Does what? - Same as ubuntu server
* Awk
  + Version – N/A - 1003.1
  + Size – N/A
  + Does what? - Same as ubuntu server
* Curl
  + Version – N/A – 8.12.1
  + Size – N/A
  + Does what? - Same as ubuntu server
* Iptables
  + Version – 1.4.12-1ubuntu4 – 1.8.11
  + Size - 1237
  + Does what? - Same as ubuntu server

Part B:

For all of the Linux systems

what is the current version of that OS

what is the current repo of that OS

what version of the OS is running? (Name- installed – current - repo)

Fedora workstation – 1.4.12.2 – 41 - <https://mirrors.fedoraproject.org/mirrorlist?repo=fedora-41&arch=x86_64>

Ubuntu Workstation – 12.04 – 24.04 - archive.ubuntu.com

Centos Server – 6.3 – 10 - <https://vault.centos.org> (no official repositories remain)

Ubuntu server – 12.04 – 24.04.2 - archive.ubuntu.com

**Part C: Netlab3Links to an external site.**

**Complete Lab MS410 Configure Lab 18**

A screenshot of a computer

AI-generated content may be incorrect.

Gp to install firefox

A screenshot of a computer

AI-generated content may be incorrect.

Win7 with the gp installed firefox

**ensure both Win7 and Win8-1 computers are joined to the domain server (ADDC)**

A screenshot of a computer

AI-generated content may be incorrect.

Win 7

A group of black text

AI-generated content may be incorrect.

Win 8

**configure the Windows GUI on the Server Core, and join to ADDC**

A screenshot of a computer

AI-generated content may be incorrect.

Core added to domain

**configure Application restriction policies and enforce them on all computers.**

A computer screen with a black background

AI-generated content may be incorrect.

Restriction policy in place and working

**test to ensure that the application was installed and that your applocker policy worked.**

A screenshot of a group policy management editor

AI-generated content may be incorrect.

AppLocker policy in place

Part D:

Discuss what a "Golden Image" is and how it works

* A golden image is a preconfigured and optimized system image that is used as a template for deploying multiple virtual machines. In essence os is installed and all of the software and tools are installed or in come cases uninstalled to create a standard base template for a machine. These golden images usually one per OS / use case are then stored on a file server or accessible in some way by a hypervisor or pxe boot server to speed up the deployment and configuration process.

Discuss some third-party tools (at least 2) that can be used on windows environments to manage application installation and version control

* For Microsoft in particular there is a tool called Endpoint Manager that is specifically designed to deploy update and remove applications remotely. It also has integrated roll back and version control capabilities.
* Ninight Pro – this is a web based application management software that utilizes a client that is installed on machines to manage application versions and installs.
* Puppet, Chef, and Ansible These are all large scale applications that are designed to manage application deployment and version control within large environments.