



Lampiran LKPD-1 ASJ

Lembar Kerja Peserta Didik

Nama : Muhamad Dzakwan Ar Efendi
Nis : 12209161
Kelas : TJKT XI-1
Judul Materi :....Sistem Operasi....

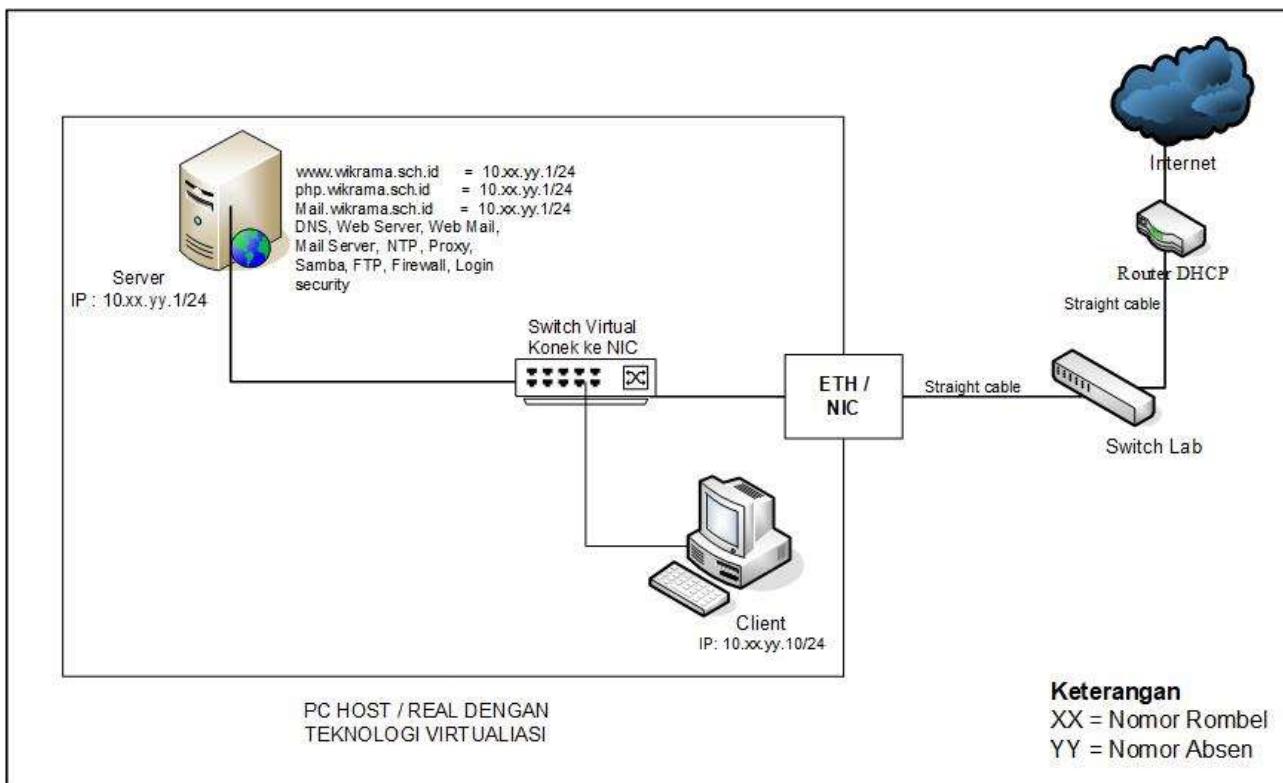
NILAI

Kegiatan 1 :

A. Instruksi Kerja

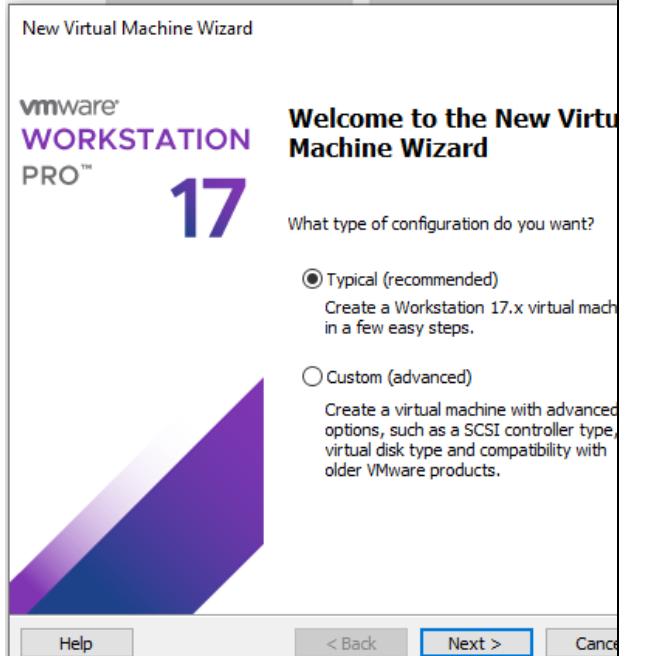
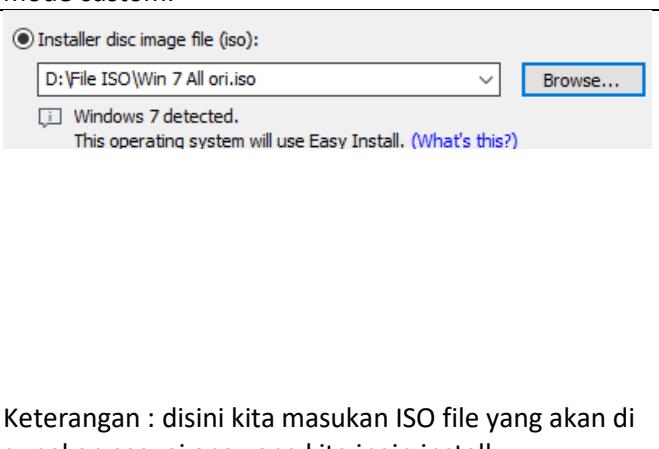
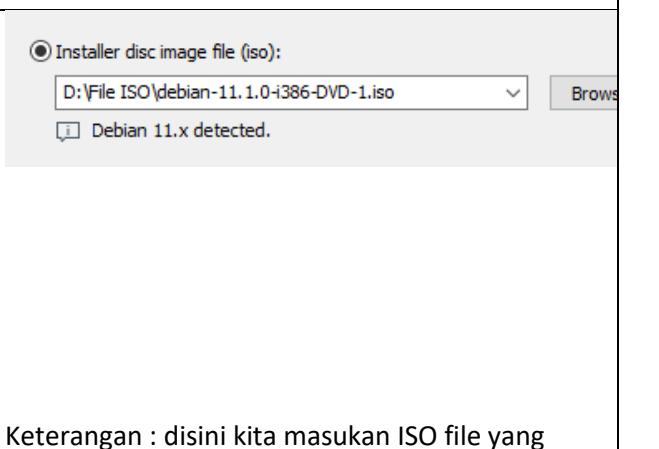
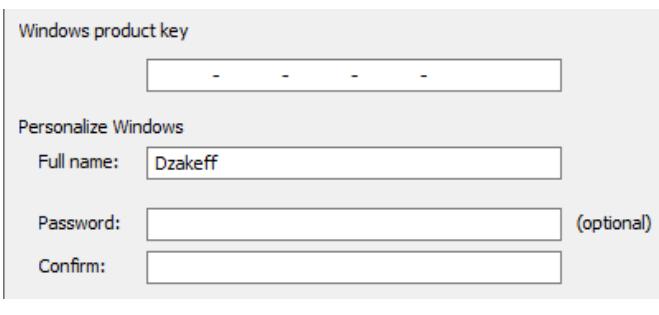
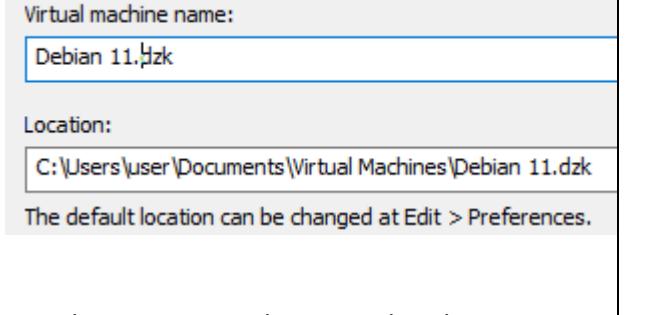
1. Menyiapkan Laptop/PC
2. Menyiapkan Koneksi Internet
3. Mengcapture (Screenshot) Step-step install Sistem Operasi Windows dan Linux menggunakan Vm-Ware
4. Jika sudah selesai, silahkan laporan pekerjaan kepada Guru atau Laboran yang ada di Laboratorium

Topologi





B. Berdasarkan Topologi diatas Buatlah Tabel Langkah-langkah Proses instalasi antara Sistem Operasi Server (Linux) dan Client (windows)

N O	Perbedaan Proses Install Windows dan Linux	
	Windows	Linux
1	 <p>New Virtual Machine Wizard</p> <p>vmware WORKSTATION PRO™ 17</p> <p>Welcome to the New Virtual Machine Wizard</p> <p>What type of configuration do you want?</p> <p><input checked="" type="radio"/> Typical (recommended) Create a Workstation 17.x virtual machine in a few easy steps.</p> <p><input type="radio"/> Custom (advanced) Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.</p> <p>Help < Back Next > Cancel</p> <p>Keterangan : Disini menggunakan typical untuk step yang mudah. Jika ingin setting lebih kompleks, silahkan gunakan mode custom.</p>	 <p>New Virtual Machine Wizard</p> <p>vmware WORKSTATION PRO™ 17</p> <p>Welcome to the New Virtual Machine Wizard</p> <p>What type of configuration do you want?</p> <p><input checked="" type="radio"/> Typical (recommended) Create a Workstation 17.x virtual machine in a few easy steps.</p> <p><input type="radio"/> Custom (advanced) Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.</p> <p>Help < Back Next > Cancel</p> <p>Keterangan :</p>
2	 <p>Installer disc image file (iso):</p> <p>D:\File ISO\Win 7 All ori.iso</p> <p>Windows 7 detected. This operating system will use Easy Install. (What's this?)</p> <p>Keterangan : disini kita masukan ISO file yang akan digunakan sesuai apa yang kita ingin install.</p>	 <p>Installer disc image file (iso):</p> <p>D:\File ISO\debian-11.1.0-i386-DVD-1.iso</p> <p>Debian 11.x detected.</p> <p>Keterangan : disini kita masukan ISO file yang akan di gunakan sesuai apa yang kita ingin install.</p>
3	 <p>Windows product key</p> <p>Personalize Windows</p> <p>Full name: Dzakeff</p> <p>Password: (optional)</p> <p>Confirm:</p> <p>Di menu ini kita masukan nama untuk user serta product</p>	 <p>Virtual machine name:</p> <p>Debian 11.dzk</p> <p>Location:</p> <p>C:\Users\user\Documents\Virtual Machines\Debian 11.dzk</p> <p>The default location can be changed at Edit > Preferences.</p> <p>Masukan nama virtual menurut keyakinan masing</p>



**YAYASAN PRAWITAMA
SMK WIKRAMA BOGOR**

Jl. Raya Wangun Kel. Sindangsari Kota Bogor

Telp. 0251-8242411, email: prohumasi@smkwikrama.net, website : www.smkwikrama.net

	key serta menambahkan password jika dibutuhkan	masing serta setting lokasi dimana file virtual akan di simpan dimana
4	<p>Virtual machine name: <input type="text" value="Windows 7 x64"/></p> <p>Location: <input type="text" value="C:\Users\user\Documents\Virtual Machines\Windows 7 x64"/></p> <p>Masukan nama virtual menurut keyakinan masing masing serta setting lokasi dimana file virtual akan di simpan dimana</p>	<p>Specify Disk Capacity How large do you want this disk to be?</p> <p>The virtual machine's hard disk is stored as one physical disk. These file(s) start small and become files, and data to your virtual machine.</p> <p>Maximum disk size (GB): <input type="text" value="20.0"/></p> <p>Recommended size for Debian 11.x: 20 GB</p> <p><input type="radio"/> Store virtual disk as a single file <input checked="" type="radio"/> Split virtual disk into multiple files</p> <p>Pada menu ini kita men setting berapa kapasitas disk virtual serta mensetting satu file atau di pisah menjadi beberapa file</p>
5	<p>Maximum disk size (GB): <input type="text" value="25"/></p> <p>Recommended size for Windows 7 x64: 60 GB</p> <p><input type="radio"/> Store virtual disk as a single file <input checked="" type="radio"/> Split virtual disk into multiple files</p> <p>Pada menu ini kita men setting berapa kapasitas disk virtual serta mensetting satu file atau di pisah menjadi beberapa file</p>	<p>Memory for this virtual machine: <input type="text" value="512"/> MB</p> <p>128 GB 64 GB 32 GB 16 GB 8 GB 4 GB 2 GB 1 GB 512 MB 256 MB 128 MB 64 MB 32 MB 16 MB</p> <p>■ Maximum recommended memory (Memory swapping may occur beyond this size.) ■ Recommended memory 2 GB ■ Guest OS recommended minimum 1 GB</p> <p>Disini saya men setting ukuran RAM menjadi 512MB dikarenakan saya hanya meninstall CLI tidak meninstall GUI-nya</p>
6	<p>Name: Windows 7 x64.dsk Location: C:\Users\user\Documents\Virtual Machines\Windows ... Version: Workstation 17.x Operating System: Windows 7 x64</p> <p>Hard Disk: 25 GB, Split Memory: 2048 MB Network Adapter: NAT Other Devices: CD/DVD, USB Controller, Printer, Sound Card</p> <p><input type="button" value="Customize Hardware..."/> <input checked="" type="checkbox"/> Power on this virtual machine after creation</p> <p>< Back <input type="button" value="Finish"/> Cancel</p> <p>Pada menu ini adalah informasi spek virtual kita. Jika ingin mengubah settingan seperti ukuran RAM bisa klik "Customize Hardware"</p>	<p>Debian GNU/Linux installer menu (BIOS mode)</p> <ul style="list-style-type: none"> Graphical install Install Advanced options Accessible dark contrast installer menu Help Install with speech synthesis <p>Pada menu ini kita merekomendasikan untuk mengklik install jika tidak perlu mensetting apa lagi</p>



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7	<p>Pada menu ini silahkan memilih windows setup jika tidak ada hal yang ingin di recovery</p>	<p>Language:</p> <table> <tbody> <tr><td>C</td><td>- No localization</td></tr> <tr><td>Albanian</td><td>- Shqip</td></tr> <tr><td>Arabic</td><td>- العربية</td></tr> <tr><td>Asturian</td><td>- Asturiano</td></tr> <tr><td>Basque</td><td>- Euskera</td></tr> <tr><td>Belarusian</td><td>- Беларуская</td></tr> <tr><td>Bosnian</td><td>- Bosanski</td></tr> <tr><td>Bulgarian</td><td>- български</td></tr> <tr><td>Catalan</td><td>- Català</td></tr> <tr><td>Chinese (Simplified)</td><td>- 中文(简体)</td></tr> <tr><td>Chinese (Traditional)</td><td>- 中文(繁體)</td></tr> <tr><td>Croatian</td><td>- Hrvatski</td></tr> <tr><td>Czech</td><td>- Česká</td></tr> <tr><td>Danish</td><td>- Dansk</td></tr> <tr><td>Dutch</td><td>- Nederlands</td></tr> <tr><td>English</td><td>- English</td></tr> </tbody> </table>	C	- No localization	Albanian	- Shqip	Arabic	- العربية	Asturian	- Asturiano	Basque	- Euskera	Belarusian	- Беларуская	Bosnian	- Bosanski	Bulgarian	- български	Catalan	- Català	Chinese (Simplified)	- 中文(简体)	Chinese (Traditional)	- 中文(繁體)	Croatian	- Hrvatski	Czech	- Česká	Danish	- Dansk	Dutch	- Nederlands	English	- English				
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8	<table border="1"> <thead> <tr> <th>Operating system</th> <th>Arch</th> </tr> </thead> <tbody> <tr><td>Windows 7 Starter</td><td>x86</td></tr> <tr><td>Windows 7 Home Basic</td><td>x86</td></tr> <tr><td>Windows 7 Home Premium</td><td>x86</td></tr> <tr><td>Windows 7 Professional</td><td>x86</td></tr> <tr><td>Windows 7 Enterprise</td><td>x86</td></tr> <tr><td>Windows 7 Ultimate</td><td>x86</td></tr> <tr><td>Windows 7 Home Basic</td><td>x64</td></tr> <tr><td>Windows 7 Home Premium</td><td>x64</td></tr> <tr><td>Windows 7 Professional</td><td>x64</td></tr> </tbody> </table> <p>Description: Windows 7 Professional</p> <p>Di tahap ini kita memilih ingin meng-install windows 7 versi apa</p>	Operating system	Arch	Windows 7 Starter	x86	Windows 7 Home Basic	x86	Windows 7 Home Premium	x86	Windows 7 Professional	x86	Windows 7 Enterprise	x86	Windows 7 Ultimate	x86	Windows 7 Home Basic	x64	Windows 7 Home Premium	x64	Windows 7 Professional	x64	<p>Country, territory or area:</p> <table> <tbody> <tr><td>Afghanistan</td></tr> <tr><td>Bahrain</td></tr> <tr><td>Bangladesh</td></tr> <tr><td>Bhutan</td></tr> <tr><td>Brunei Darussalam</td></tr> <tr><td>Cambodia</td></tr> <tr><td>China</td></tr> <tr><td>Hong Kong</td></tr> <tr><td>India</td></tr> <tr><td>Indonesia</td></tr> </tbody> </table> <p>Di tahap ini kita memilih negara, teritori atau area dimana kita tinggal</p>	Afghanistan	Bahrain	Bangladesh	Bhutan	Brunei Darussalam	Cambodia	China	Hong Kong	India	Indonesia						
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9	<p>Kita tunggu sampai selesai</p>	<p>Country to base default locale settings on:</p> <table> <tbody> <tr><td>Antigua and Barbuda</td><td>- en_AG</td></tr> <tr><td>Australia</td><td>- en_AU.UTF-8</td></tr> <tr><td>Botsuana</td><td>- en_BH.UTF-8</td></tr> <tr><td>Canada</td><td>- en_CA.UTF-8</td></tr> <tr><td>Hong Kong</td><td>- en_HK.UTF-8</td></tr> <tr><td>India</td><td>- en_IN</td></tr> <tr><td>Ireland</td><td>- en_IE.UTF-8</td></tr> <tr><td>Israel</td><td>- en_IL</td></tr> <tr><td>New Zealand</td><td>- en_NZ.UTF-8</td></tr> <tr><td>Nigeria</td><td>- en_NG</td></tr> <tr><td>Philippines</td><td>- en_PH.UTF-8</td></tr> <tr><td>Seychelles</td><td>- en_SC.UTF-8</td></tr> <tr><td>Singapore</td><td>- en_SR.UTF-8</td></tr> <tr><td>South Africa</td><td>- en_ZA.UTF-8</td></tr> <tr><td>United Kingdom</td><td>- en_GB.UTF-8</td></tr> <tr><td>United States</td><td>en_US.UTF-8</td></tr> <tr><td>Zambia</td><td>- en_ZM</td></tr> <tr><td>Zimbabwe</td><td>- en_ZW.UTF-8</td></tr> </tbody> </table> <p>Di tahap ini kita memilih base default locale</p>	Antigua and Barbuda	- en_AG	Australia	- en_AU.UTF-8	Botsuana	- en_BH.UTF-8	Canada	- en_CA.UTF-8	Hong Kong	- en_HK.UTF-8	India	- en_IN	Ireland	- en_IE.UTF-8	Israel	- en_IL	New Zealand	- en_NZ.UTF-8	Nigeria	- en_NG	Philippines	- en_PH.UTF-8	Seychelles	- en_SC.UTF-8	Singapore	- en_SR.UTF-8	South Africa	- en_ZA.UTF-8	United Kingdom	- en_GB.UTF-8	United States	en_US.UTF-8	Zambia	- en_ZM	Zimbabwe	- en_ZW.UTF-8
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10	<p>Copyright © 2009 Microsoft Corporation. All rights reserved.</p> <p>Di tahap ini kita memberi nama virtual windows kita</p>	<p>[!] Configure the keyboard</p> <p>Keymap to use:</p> <table> <tbody> <tr><td>American English</td></tr> </tbody> </table> <p>Ditahap ini kita memilih keymap atau settingan keyboard, di Indonesia kita biasa menggunakan american english</p>	American English																																			
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<p>1 1</p> <p>Help protect your computer and improve Windows automatically</p> <p><input checked="" type="checkbox"/> Use recommended settings Install important and recommended updates, help make Internet browsing safer, check online for solutions to problems, and help Microsoft improve Windows.</p> <p><input checked="" type="checkbox"/> Install Important updates only Only install security updates and other important updates for Windows.</p> <p><input type="checkbox"/> Ask me later Until you decide, your computer might be vulnerable to security threats.</p> <p>Learn more about each option</p> <p>When you use recommended settings or install updates only, some information is sent to Microsoft. This information is not used to identify you or contact you. To turn off these settings later, search for 'Turn off recommended settings' in Help and Support. Read the privacy statement</p> <p>Di menu ini kita memilih keamanan yang akan kita pakai. Untuk sementara saya tidak akan memakai nya terlebih dahulu</p>	<p>Please enter the hostname for this system</p> <p>The hostname is a single word that identifies your computer so that other computers on your network know what your hostname should be, computers on your own home network, you can make up your own hostname.</p> <p>Hostname:</p> <p>dzk</p> <p>Disini kita beri nama debian kita sebagai hostname</p>
 <p>Install virtual windows sudah selesai dan siap untuk digunakan</p>	<p>The domain name is the part of your Internet address to the right of your local computer name. It is often something that ends in .com, .net, .edu, or .org. If you are setting up a computer on a network, you can make something up, but make sure you use the same domain name for all the computers on your network.</p> <p>Domain name:</p> <p>debian.net</p> <p>Disini kita masukan nama domain debian kita agar memiliki nama dns. Untuk men setting dns bisa dilakukan pada saat debian sudah bisa digunakan</p>
<p>1 2</p>	<p>Note that you will not be able to see the password as you type it.</p> <p>Root password:</p> <p>*****</p> <p>[] Show Password in Clear</p> <p>Di menu ini kita menambahkan password untuk menggunakan debian</p>
<p>1 3</p>	<p>[] Set up users and passwords</p> <p>Please enter the same root password again to verify that you have typed it correctly.</p> <p>Re-enter password to verify:</p> <p>*****</p> <p>[] Show Password in Clear</p> <p><Go Back></p> <p>Di menu ini kita memasukan ulang password yang akan kita pakai</p>
<p>1 4</p>	<p>[] Set up users and passwords</p> <p>A user account will be created for you to use instead of the root account for non-administrative activities.</p> <p>Please enter the real name of this user. This information will be used for the default origin for emails sent by this user as well as any program which displays the user's real name. Your full name is a reasonable choice.</p> <p>Full name for the new user:</p> <p>Debian</p> <p><Go Back></p> <p>Disini kita masukan</p>



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1 5		<p>Select a username for the new account. Your first name is a reasonable username should start with a lower-case letter, which can be followed by numbers and more lower-case letters.</p> <p>Username for your account:</p> <p>username</p> <p><Go Back></p> <p>Disini kita isi nama user kita sebagai user nanti pada saat debian akan digunakan</p>
1 6		<p>A good password will contain a mixture of letters, numbers and punctuation changed at regular intervals.</p> <p>Choose a password for the new user:</p> <p>password</p> <p><Go Back></p> <p>Di menu ini kita menambahkan password untuk menggunakan debian</p>
1 7		<p>Please enter the same user password again to verify you have typed Re-enter password to verify:</p> <p>password</p> <p><Go Back></p> <p>Di menu ini kita memasukan ulang password yang akan kita pakai</p>
1 8		<p>Select a city in your time zone:</p> <p>Central Java, Jakarta, Java, and the Central Kalimantan Central Sulawesi, Bell, Muara Bengkalis, East and South Kalimantan Eastern Maluku, Papua</p> <p><Go Back></p> <p>Disini kita memilih zona waktu dimana kita tinggal</p>
1 9		<p>The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customize the results.</p> <p>If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.</p> <p>Partitioning method:</p> <p>Select one entire disk Guided - use entire disk and set up LVM Guided - use entire disk and set up encrypted LVM Manual</p> <p>Di tahap ini kita men setting partisi yang akan kita setting. Di sini saya setting menggunakan seluruh disk sampai tidak ada yang nganggur</p>
2 0		<p>Note that all data on the disk you select will be erased, but not before I confirmed that you really want to make the changes.</p> <p>Select disk to partition:</p> <p>SDD1 (0.0.0) (sd0) - VMware, VMware Virtual S: 21.5 GB</p> <p><Go Back></p> <p>Disini kita pilih disk mana yang akan digunakan</p>
2 1		<p>Selected for partitioning:</p> <p>SDD1 (0.0.0) (sd0) - VMware, VMware Virtual S: 21.5 GB</p> <p>The disk can be partitioned using one of several different schemes. If you are unsure choose the first one.</p> <p>Partitioning scheme:</p> <p>Easier to use partition (recommended for new users) Separate /home partition Separate /home, /var, and /tmp partitions</p> <p>Disini kita memilih skema partisi yang akan kita</p>



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		gunakan. Untuk saya saya akan simpan di satu partisi saja.
2 2		<p>This is an overview of your currently-configured partitions and mount point to modify its settings (file system, mount point, etc.), a free partitions, or a device to initialize its partition table.</p> <p>Guided partitioning Configure software RAID Configure the Logical Volume Manager Configure encrypted volumes Configure iSCSI volumes</p> <pre>SCSI3 (0,0,0) (sda) - 21.5 GB VMware Virtual S #1 primary 20.9 GB f ext4 / #5 logical 534.8 MB f swap swap</pre> <p>undo changes to partitions Finish partitioning and write changes to disk</p> <p>Disini kita pilih finish jika tidak ada yang akan di ubah lagi</p>
2 3		<p>If you continue, the changes listed below will be written to the disks; you will be able to make further changes manually.</p> <p>The partition tables of the following devices are changed: SCSI3 (0,0,0) (sda)</p> <p>The following partitions are going to be formatted: partition #1 of SCSI3 (0,0,0) (sda) as ext4 partition #5 of SCSI3 (0,0,0) (sda) as swap</p> <p>Write the changes to disks?</p> <p>(Yes)</p> <p>Di menu ini debian memastikan kalo kita sudah tidak ada lagi yang akan di ubah</p>
2 4		<p>[[!]] Configure the package manager</p> <p>Scanning your installation media finds the label:</p> <p>Debian GNU/Linux 11.1.0 _Bullseye_ - Official 1906-DVD Binary-1 20211005-0</p> <p>You now have the option of scanning additional media for use by the package manager. Normally these should be from the same set as the one you booted from; if you do not have any additional media, this step can just be skipped.</p> <p>If you wish to scan more media, please insert another one now.</p> <p>Scan extra installation media?</p> <p><Go Back> <Yes></p> <p>Disini kita diberi pilihan apakah kita akan menambahkan media instalasi ekstra untuk meng install fitur tambahan debian atau tidak</p>
2 5		<p>[[!]] Configure the package manager</p> <p>A network mirror can be used to supplement the software that is included on the installation media. This may also make newer versions of software available.</p> <p>You are installing from a DVD image. Even though it contains a large selection of packages, some may be missing. If you have a reasonably good Internet connection, a mirror is suggested if you plan to install a graphical desktop environment.</p> <p>Use a network mirror?</p> <p><Go Back> <Yes></p> <p>Disini kita diberi pilihan apakah akan menggunakan network mirror atau tidak</p>
2 6		<p>The system may anonymously supply the distribution developers with information about the most used packages on this system. This information influences which packages should go on the first distribution CD.</p> <p>If you choose to participate, the automatic submission script sends statistics to the distribution developers. The collected data is available at https://popcon.debian.org/.</p> <p>This choice can be later modified by running "dpkg-reconfigure popcon".</p> <p>Participate in the package usage survey?</p> <p><Yes></p> <p>Disini debian menawarkan apakah kita akan berpartisipasi dalam survei paket</p>



2 7		<p>At the moment, only the core of the system is installed. To tune the system needs, you can choose to install one or more of the following predefined software.</p> <p>Choose software to install:</p> <p><Continue></p> <p>Disini kita diberi pilihan apasaja software yang akan di install. Dikarenakan saya hanya menggunakan CLI saya hanya memilih web server, ssh server serta standard system utilities</p>
2 8		<p>Di tahap ini kita diberi pilihan apakah akan menginstall GRUB boot loader atau tidak. Disarankan kita menginstall agar debian bisa booting</p>
2 9		<p>Di menu ini kita memilih disk yang akan kita pakai</p>
3 0		<p>Instalasi sudah selesai</p>
3 1		<p>Debian sudah siap digunakan</p>

😊 Selamat Mengerjakan 😊