

Figure 1: Boot first from cd-rom

 Langkah pertama untuk menginstall asterisknow adalah mengubah setting bios menjadi first boot ke cd-rom, setelah booting dari cd-rom maka langkah selanjutnya menekan ENTER untuk mulai menginstall asterisknow :-)



Figure 2: Tampilan pembuka dari asterisk-now

2. Klik next untuk memulai instalasi asterisk now.

Asterisk NOW		(*
Installation Type Choose the type of installation that best meets your needs. An installation destroys any previously saved information on the selected partitions. For more information concerning the differences among these installation classes, refer to the product documentation.	<ul> <li>No</li> <li< th=""><th>Express Installation Installs all needed software for a complete Asterisk installation as well as all the tools needed to build Asterisk. Additionally, useful software such as Cepstral, ODBC, and debugging tools are included. Custom Installation Allows customization of the express install of Asterisk, as well as all the tools needed to build Asterisk. Expert Select this installation type to gain complete control over the installation process, including software package selection and partitioning.</th></li<></ul>	Express Installation Installs all needed software for a complete Asterisk installation as well as all the tools needed to build Asterisk. Additionally, useful software such as Cepstral, ODBC, and debugging tools are included. Custom Installation Allows customization of the express install of Asterisk, as well as all the tools needed to build Asterisk. Expert Select this installation type to gain complete control over the installation process, including software package selection and partitioning.
Hide Help	15	

Figure 3: Type instalasi

3. Langkah selanjutnya memilih type instalasi, untuk mempermudah silahkan pilih Express Instalasion, pilihan ini akan melakukan instalasi secara keseluruhan tetapi jika anda ingin mengkustomisasi paket-paket yang akan anda install silahkan pilih type Custom Installatin :-)

Asterisk <b>NOW</b>	(*
Automatic partitioning allows you to have some control concerning what data is removed (if any) from your system.	Before automatic partitioning can be set up by the installation program, you must choose how to use the space on your hard drives. I want to have automatic partitioning: <ul> <li>Remove all Linux partitions on this system</li> <li>Remove all partitions on this system</li> <li>Keep all partitions and use existing free space</li> </ul>
To remove only Linux partitions (partitions created from a previous Linux installation), select <b>Remove all Linux</b> <b>partitions on this system</b> .	Select the drive(s) to use for this installation:
To remove all partitions on your hard drive(s) (this includes partitions created by other operating systems such as Windows 95/98/NT/2000),	Review (and modify if needed) the partitions created
Hide Help	Seck Next

Figure 4: Partion Hard-Drive

- 4. Setelah anda melakukan pemilihan type instalasi maka langkah selanjutnya yang akan anda lakukan adalah mempartisi hard-drive. Pada partisi ini ada 3 pilihan
  - Menghapus semua partisi linux yang ada padas system.
  - Menghapus semua partisi yang ada pada sytem.
  - Menjaga partisi yang ada dan membuat partisi dari space hard-drive yang tersisa.

Sayangnya pada proses partisi ini tidak disediakan partisi secara manual :-(

(*) Asterisk <b>NO</b>	N	(*
Automatic Partitioning	Before automatic partitioning can be set up by t program, you must choose how to use the space drives	he installation e on your hard
Automatic partitioning	Warning	
you to have some cont concerning what data i removed (if any) from y system.	You have chosen to remove all Linux partitions (and ALL DATA on them) on the following drives:	/stem ee space
To remove only Linux (partitions created from previous Linux installa select <b>Remove all Lin</b> <b>partitions on this sys</b>	Are you sure you want to do this?	ual S
To remove all partitions hard drive(s) (this inclue partitions created by oth operating systems such Windows 95/98/NT/200	on your les er as 0),	created
🔯 Hide Help	Release Notes	Sack

Figure 5: Peringatan akan kehilangan data.

5. Setelah anda melakukan pemilihan partisi, system akan memberitahukan bahwa partisi anda yang sebelumnya akan hilang.

AsteriskNOW	(米)
Network Configuration Any network devices you have on the system are automatically detected by the installation program and shown in the Network Devices list	Network Devices          Active on Boot Device IP/Netmask       Edit         Image: etho DHCP       Image: Edit         Hostname       Set the hostname:
Network Devices list. To configure the network device, first select the device and then click Edit. In the Edit Interface screen, you can choose to have the IP and Netmask information configured by DHCP or you can enter it manually. You can also choose to make the device active at boot time.	
Belease Note	≥s 🔤 Back 🗣 Next

Figure 6: Konfigurasi Jaringan.

- 6. Langkah berikutnya anda akan dihadapkan pada konfigurasi jaringan yang ada, jika anda berada di dalam lingkungan jaringan yang menggunakan DHCP maka anda harus memilih
  - automatically via DHCP

Tetapi jika anda tidak menggunakan DHCP maka anda harus memilih

• manually

dan menginputkan IP-address yang anda gunakan.



Figure 7: Timezone.

7. Maka langkah berikutnya adalah mengatur waktu sesuai keberadaan kita, pilih lokasi tempat tinggal kita mial Jakarta.

Asterisk <b>NOW</b>	(*
Administrator Password In order to use Asterisk Business	The admin account is used for administering the system.         Enter a password for the admin user.         Admin Password:         •*******         Confirm:
Edition, you must set a password for the Administrator account, "admin". This password will be used to login to the system. It will also be	
the same password for accessing the Asterisk GUI and the Asterisk Manager Interface. In order to do any super-user operations you will need to use 'sudo'. For information on using sudo, please visit http://en.wikipedia.org/wiki/ Sudo	
🔯 Hide Help	s ⊉Back ⊉Next

Figure 8: Password root.

8. Setelah anda mengatur zona waktu, selanjutnya anda di minta untuk memasukkan password root yang dikehendaki, misal 123456 :-)

Asterisk <b>NOW</b>		¢
Administrator Password	Image: The admin account is used for administering the system.         Image: Enter a password for the admin user.         Admin Password:	
In order to use Asterisk Business Edition, you must set a password for the Administrator account, "admin".	Confirm:	
This password will be used to login to the system. It will also be the same password for accessing the Asterisk GUI and the Asterisk Manager Interface. In order to do any super-user operations you will need to use 'sudo'. For information on using sudo, please visit http://en.wikipedia.org/wiki/ Sudo	Reading package information	
Belease Notes	s 🗢 Back 🖙 Next	

Figure 9: Pembacaan Paket.

9. Setelah anda meinputkan pasword root maka sistem akan membaca informasi paket-paket yang tersedia untuk memulia instalasi paket-paket yang dibutuhkan.



Figure 10: Begin INstallation.

10. Klik next aja untuk memulai instalasi paket :-)



Figure 11: Proses Instalasi paket asterisknow.

 Ini adalah tampilan proses penginstalan paket2 asterisknow, tunggu beberapa saat sambil menyantap pisang goreng bersama kopi panas + rokok mallboro light ;-)

Asterisk <b>NOW</b>	(*
	Congratulations, the installation is complete. Remove any installation media used during the installation process and press the "Reboot" button to reboot your system.
Belease Notes	Sack Reboot

Figure 12: instalasi Selsesai.

12. Instalasi selesai dan reboot system anda. GAMPANG KAN INSTALL ASTERIKS :-)

dıgiumi Asterisk	Welcome to Asterisk GUI setup wizard
Start Verify Analog Ports Date & Time Local Extension Settings Service Providers Calling Rules VoiceMail Settings User Extensions Finish	Step 1 of 7 - Verify Analog Ports         The following analog ports have been detected on your system         Analog(FXO) Port #8         Analog(FXO) Port

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#### Figure 13: Verifikasi analog port.

1. Pertama kali yang dilakukan asterisknow adalah memverifikasi analog port yang terdaspat pada sistem anda, setelah proses verifikasi selesai klik | Next.

dıgium Asterisk	Welcome to Asterisk GUI setup wizard
Start Verify Analog Ports <b>Date &amp; Time</b> Local Extension Settings Service Providers Calling Rules VoiceMail Settings User Extensions Finish	Step 2 of 7 - Date & Time Settings Please configure the current local system time: Day Jan 25 T Time 11 : 39 : 06 AM T Year 2007 :
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Figure 14: Pengaturan waktu & tanggal.

2. Kemudian asterisk akan meminta anda untuk mengatur waktu & tanggal sesuai sytem anda.

dıgiumi Asterisk	Welcome to Asterisk GUI setup wizard
Start Verify Analog Ports Date & Time Local Extension Settings Service Providers Calling Rules VoiceMail Settings User Extensions Finish	Step 3 of 7 - Local Extension Settings Local Extensions are did digits long Starting point of Allocation of extensions : 6000
	Back

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Figure 15: Pengaturan Extension.

- 3. Ada tiga hal yang dapat dilakukan,
  - menginputkan berapa digit yang digunakan untuk sebuah extension lokal, ex : 4 digit
  - mulai mengalokasikan nomor extension dari, ex : 6000
  - mengijinakan analog phone untuk beberapa extensions.

dıgiumi Asterisk	Welcome to Asterisk GUI setup wizard	
Start Verify Applog Ports	Step 4 of 7 - Service Providers	
Date & Time Local Extension Settings Service Providers	You do not have any Service Providers defined Add Service Provider	
VoiceMail Settings User Extensions Finish		
	Back	Next

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#### Figure 16: Service Provider.

4. Asterisk gui akan meinputkan provider yang memberikan layanan VoIP kepada anda. Klik Add Service Provider

dıgiumi Asterisk	Welcome to Asterisk GUI setup wizard	
Start Verify Analog Ports Date & Time Local Extension Settings Service Providers Calling Rules VoiceMail Settings User Extensions Finish	Add Service Provider     Provider Type:   Image:   Vol?   Image:   Vol?     Image:   <	
Convict 02006 2007 Disjum Jack	Back Next	

Figure 17: Penambahan Provider.

5. Ada tiga type probier yang disediakan yaitu : Analog, VoIP & Custom VoIP. Pada contoh diatas penambahan dilakukan pada type provider VoIP yaitu IAXtel.com, sebelumnya anda sudah mempunyai account pada provider tersebut, inputkan username : demo & password : \*\*\*\*\*\*\*, banyak sekali provider di internet yang memberikan account gratis untuk VoIP secara gratis. Contoh provider Indonesia yang memberikan no VoIP gratis cuma-cuma adalah <u>http://voiporakyat.or.id</u>

dıgiumi Asterisk	Welcome to Asterisk GUI setup wizard	
Start Verify Analog Ports Date & Time Local Extension Settings Service Providers Calling Rules VoiceMail Settings User Extensions Finish	Step 5 of 7 - Outbound Calling Rules   Rule Name:   Index this call through:   Index this call through:   Index the number begins with   Index the number begins   Index the number begins	X ions Delete Delete Delete Delete
		Back Next

Figure 18: Panggilan keluar.

- 6. tahap ini merupaka pengaturan untuk melakukan pemanggilan keluar, ada beberapa hal yang disetting.
  - Rule name : Longdistance
  - Call throught : IAXTEL demo [account demo pada provider IAXTEL.com]
  - Dialing Rules : if the number begins with **91** and followed by **10** digits or more
  - Strip ; 1 digits from the from before dialing. | SAVE|

Penjelasan :

Rule name : nama yang anda inputkan.

Call throught : panggilan tersebut akan melewati account [demo] pada provider

[IAXTEL.com]

Dilaing Rules : panggilan akan dimulai dari 91 dan diikuti 10 angka dibelakangnya atau lebih.

Strip : buang 1 digit pertama dari depan sebelum melakukan pangilan.

fauzan.asdfghjkl@yahoo.co.id



Figure 19: Outbound Calling Rules.

 Gambar diatas merupakan beberapa Outbound Calling Rules yang telah diinputkan kedalam system asterisk. Anda dapat menambahkan beberapa pengaturan panggilan lagi sesuai kebutuhan anda.



Figure 20: Pengaturan VoiceMail.

- 8. Selanjutnay seltelah anda mengatur Outbound Calling Rule anda akan mengatur beberapa parameter untuk pengaturan voicemail. Voicemail ini berfungsi untuk merekam pesan jika anda sedang tidak bisa menerima panggilan, parameter terebut adalah :
  - Extension for cheking messages : 8500
  - Attach recording to email : Yes
  - Max messages per folder : 10
  - Max message time : 1 Minute
  - Max greeting (seconds) ; 30

Penjelasan :

- Nomor extensions yang akan memeriksa pesan yang masuk.
- Rekaman tersebut akan di lampirkan ke alamat email kita.
- Maximum pesan yang dapat ditampung di dalam sebuah folder.

#### fauzan.asdfghjkl@yahoo.co.id

- Max ukuran pesan, pada contoh maximum ukuran pesan 1menit.
- Max lama bicara (dalam detik), pada contoh diatas sapaan di batasi selama 30detik.

dıgiumi Asterisk		Welcor	ne to Ast	erisk GUI setup wizard		
Start Verify Analog Ports Date & Time			Step	7 of 7 - User Extensions List of User Extensions		
Local Extension Settings	S.no	Extension	Name		Opt	ions
Service Providers	1	6000	Test User1		Edit	Delete
Calling Rules				Configuration saved!		
VoiceMail Settings				Add User Extension		
User Extensions						
Finish						
					Back	Next

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Figure 21: User extensions.

9. Menambahkan nomor extensions untuk para pengguna.

dıgiumi Asterisk	Welcome to Asterisk GUI setup wizard
Start Verify Analog Ports Date & Time Local Extension Settings Service Providers Calling Rules VoiceMail Settings <b>User Extensions</b> Finish	Sno E   User Extension 6000 Full Name:   Test User 1   Password:   test   Email:   demo@example.com   Caller id:   DialPlan1   VoiceMail:   Calling Rule:   DialPlan1   VoiceMail:   CT:   In Directory:   SIP:   CT:   In Directory:   Save   CallWaiting:   Save
	Back Next

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#### Figure 22: Penambahan User.

- 10. Untuk melakukan penambahan nomor extensionis bagi para pengguna sitem adalah dengan menginputkan beberapa parameter, yaitu :
  - User Extension : 6000 [nomor extension yang digunakan]
  - Full name : Test user 1. [nama user]
  - Passwrod : test [password user]
  - Email : <u>demo@example.com [alamat email]</u>
  - Caller id : test 1 [nama yang keluar pada saat panggilan]
  - Calling Rule : dialplan 1 [rule yang diguanakan, lihat pengaturan pada caling rule]
  - Call waiting : yes [mengaktifkan call waiting]
  - Voicemail : yes [mengaktifkan voicemail]
  - SIP : yes [menggunakan teknologi SIP]
  - IAX : yes [menggunakan teknologi IAX]
  - 3-Way Calling : yes [mengaktifkan 3 panggilan sekaligus]

fauzan.asdfghjkl@yahoo.co.id

dıgiumi Asterisk	Welcome to Asterisk GUI setup wizard
Start Verify Analog Ports Date & Time Local Extension Settings Service Providers Calling Rules VoiceMail Settings User Extensions Finish	Finish Congratulations You have sucessfully configured your Asterisk installation
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Figure 23: Finish.

Ternyata sangat mudah untuk mengkonfigurasi sebuah central telephone sederhana, kalau kita semua mau berusaha maka monopoli telekomunikasis yang ada di negara kita bisa teratasi dengan usaha kecil-kecilan dari rakyat-rakyet kecil. Semakin banyak yang berusaha maka semakin kuat rakyat indonesia di dunia telokomunikasi international. Semoga tutorial singkat ini dapat membantu kalangan pemula yang mau mendalami VoIP.