Membangun VOIP Server dengan Briker

Bab I Pendahuluan

1.Pengertian

Briker Open Source IPPBX is a Free and Open Source Software project to build a Linux Distribution that provides telecommunication related services such as a PBX or an IP PBX, and other telephony features (Anton Raharja, 2008)Fokus :

- Briker adalah distribusi Linux yang didalamnya terdapat aplikasi server yang memungkinkan pengguna mengimplementasikan layanan VoIP, membangun sentral telepon sendiri
- Penggunaan Briker per server disarankan untuk organisasi, institusi dan perusahaan dengan jumlah extension maksimal 1000 dan perkiraan jumlah percakapan simultan maksimal 240
- Fitur-fitur dalam Briker bisa dikatakan setara dengan PABX yang ada dipasaran. IVR, ring group, call forward, follow me, ACD, trunking dan billing adalah fitur-fitur yang biasanya anda peroleh dengan membeli PABX yang harganya relatif sangat mahal
- Dalam manual ini dijelaskan bagaimana melakukan konfigurasi Briker, lengkap dengan step-by-step dan gambar-gambar penunjang

2.Latar Belakang

Dengan berkembangnya jaringan internet,muncullah teknologi telepon berbasis internet,yang lebih dikenal dengan VOIP.Di Indonesia sendiri,teknologi ini menarik perhatian beberapa pihak hingga dikembangkannya distribusi Linux yang ditujukan khusus untuk memberikan pelayanan VOIP Server.Distribusi Linux ini bernama Briker. Pada praktik kali ini,kita akan mempraktikkan penggunaan VOIP dengan Briker

3.Tujuan

Membangun VOIP Server dengan Briker

4.Hasil yang diharapkan

Client dapat melakukan VOIP dengan Client lain

Bab II Alat dan Bahan

- Alat : Laptop,Server Proxmox
- Bahan : Internet, ISO Briker

Bab III Jangka Waktu

Jangka Waktu yang diperlukan untuk melakukan instalasi, konfigurasi dan test kira-kira 4 Jam.

Bab IV Langkah Kerja

1. Buat VM baru di Proxmox.Beri nama dan atur VM ID-nya (disarankan sesuai VLAN ID agar lebih mudah membedakannya).Klik Next

| Create: Virtu | al Machine | | | | | \otimes |
|---------------|------------|-------------|----------------|---------|---------|-----------|
| General | OS CD/DVD | Hard Disk C | PU Memory | Network | Confirm | |
| Node: | proxmox | ~ | Resource Pool: | | | \sim |
| VM ID: | 2105 | 0 | | | | |
| Name: | briker | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
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| | | | | | | |
| Quitala | | | | | Death | Maut |
| 🕑 неір | | | | | Васк | Next |
| | | | | | | |

2. Pilih Linux 4.x Kernel,klik Next

| Create: Virtual Machine | \otimes |
|---|---|
| General OS CD/DVD Hard Disk | CPU Memory Network Confirm |
| Microsoft Windows O Microsoft Windows 10/2016 | Linux/Other OS types Linux 4.X/3.X/2.6 Kernel |
| O Microsoft Windows 8.x/2012/2012r2 | C Linux 2.4 Kernel |
| O Microsoft Windows 7/2008r2 | ◯ Solaris Kernel |
| O Microsoft Windows Vista/2008 | Other OS types |
| O Microsoft Windows XP/2003 | |
| O Microsoft Windows 2000 | |
| | |
| | |
| | |
| | |
| | |
| Help | Back Next |

3. Pilih ISO yang telah diupload ke Proxmox,klik Next

| Use CD/DVD d Storage: | lisc image file (iso) local \lor | | | |
|--------------------------|---------------------------------------|-----|------|--|
| ISO image: | briker-2.0.4.iso | | _ | |
| Use physical C | Name | For | Size | |
| Do not use any | briker-2.0.4.iso | iso | 620 | |
| O DO NOT USE any | debies 0.0.0 i200 DVD 4 iss | 1 | 0.70 | |
| Do not use any | debian-8.6.0-i386-DVD-1.iso | iso | 3.72 | |
| J Do not use any | debian-8.6.0-i386-DVD-1.iso | iso | 3.72 | |
| J DO NOL USE ANY | debian-8.6.0-i386-DVD-1.iso | iso | 3.72 | |
| J Do not use any | debian-8.6.0-i386-DVD-1.iso | iso | 3.72 | |
| J Do not use any | debian-8.6.0-i386-DVD-1.iso | iso | 3.72 | |
| Do not use any | debian-8.6.0-i386-DVD-1.iso | iso | 3.72 | |

4. Atur kapasitas disk yang dibutuhkan.Untuk Briker sendiri,sebenarnya tidak memerlukan kapasitas Harddisk yang terlalu besar,namun disini saya

samakan dengan VM lain,klik Next

| Create: Virtual N | lachine | | | | | \otimes |
|-------------------|----------------|-----------|------------------------------|------------|--------------------|-----------|
| General OS | CD/DVD | Hard Disk | | CPU Memory | Network Confirm | |
| Bus/Device: | SCSI ~ | 0 | 0 | Cache: | Default (No cache) | ~ |
| Storage: | local-lvm | | \sim | No backup: | | |
| Disk size (GB): | 50 | | $\hat{\boldsymbol{\varphi}}$ | Discard: | | |
| Format: | Raw disk image | e (raw) | | IO thread: | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Help | | | | | Back | Next |

_

5. Atur penggunaan prosesor,klik Next

| Create: Vir | tual Mac | hine | | | | | | \otimes |
|-------------|----------|--------|-----------|------|----------|-------------|---------|-----------|
| General | OS | CD/DVD | Hard Disk | CPU | Memory | Network | Confirm | |
| Sockets: | 1 | | | Туре | 9: | Default (kv | m64) | ~ |
| Cores: | 1 | | (| Tota | l cores: | 1 | | |
| Enable NUM | 1A: | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Help | | | | | | | Back | Next |

6. Atur RAM yang digunakan, rekomendasi 2GB untuk penggunaan skala sedang, klik Next

| Create: Vir | tual Mac | chine | | | | | | \otimes |
|--------------------|-------------|-------------|---------------|-----|--------|---------|---------|-----------|
| General | OS | CD/DVD | Hard Disk | CPU | Memory | Network | Confirm | |
| Use fixe | d size me | emory | | | | | | |
| | Memory | (MB): 204 | 8 | 0 | | | | |
| | Ballo | ooning: 🗹 | | | | | | |
| O Automat range | ically allo | cate memor | y within this | | | | | |
| Maximun | n memory | (MB): 102 | 4 | | | | | |
| Minimun | n memory | (MB): 512 | | | | | | |
| | S | Shares: Def | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Help | | | | | | | Back | Next |

7. Masukkan VLAN ID,klik Next

| Create: Virtual N | lachine | | | | \otimes |
|-------------------|---------|-----------|-----------------------|--------------------------|------------------------------|
| General OS | CD/DVD | Hard Disk | CPU Memory | Network Confirm | |
| Bridged mode | | | Model: | VirtIO (paravirtualized) | ~ |
| VLAN Tag: | 2105 | 0 | MAC address: | auto | |
| Bridge: | vmbr0 | ~ | Rate limit (MB/s): | unlimited | $\hat{\boldsymbol{\varphi}}$ |
| NAT mode | | | Multiqueues: | | \bigcirc |
| O No network de | vice | | Disconnect. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Help | | | | Back | ext |

8. Klik Finish

| Create: Virtual Mac | chine | \otimes |
|---------------------|---|-----------|
| General OS | CD/DVD Hard Disk CPU Memory Network Confirm | |
| Settings | | |
| Кеу ↑ | Value | |
| cores | 1 | |
| ide2 | local:iso/briker-2.0.4.iso,media=cdrom | |
| memory | 2048 | |
| name | briker | |
| net0 | virtio,bridge=vmbr0,tag=2105 | |
| nodename | proxmox | |
| numa | 0 | |
| ostype | 126 | |
| scsi0 | local-lvm:50 | |
| sockets | 1 | |

Back Fini

9. Pilih pada VM briker, lalu klik Start

| 🗲 🛈 🗞 https://192.168.0. | 1:8006/#v1:0:=qemu9 | %2F2105:4::::: | | ି ୍ kebutuha |
|--|--|---|---|-----------------------------|
| | al Environment 4.4-1/eb | 2d6f1e Search | | You are logged in as 'root@ |
| Server View ~ | Virtual Machine 2105 (| briker') on node 'proxmox' | | ▶ Start 🖞 Shutdown 🗸 🦩 F |
| Datacenter | Summary | | | |
| 😱 2100 (zainal) 😱 2101 (kiki) | >_ Console | briker | | Notes |
| 2102 (yosi) 2105 (briker) 2109 (teddy) local (proxmox) local-lvm (proxmox) | Options Task History Monitor Backup Snapshots Firewall Permissions | Status Managed by HA Node CPU usage Memory usage Bootdisk Size | stopped No proxmox 0.00% of 1 CPU(s) 0.00% (0 B of 2.00 GiB) 50.00 GiB | |
| | | CPU usage | | |

10. Klik pada tab Console, lalu klik Fullscreen

| al Environment 4.4-1/eb2d6f1e Search | You are logged in as 'toot@pam' O O Help 🖵 Create VM | 😨 Greate CT 🔅 L |
|--|---|-----------------|
| Virtual Machine 2105 ('briker') on node 'proxmox' | ► Start 🖒 Shutdown 🖃 🕈 Reset 🖹 Remove 🚀 Migrate | 🖳 Console 🖂 😡 |
| @ Summary | Connected (encrypted) to: QEMU (briker) | ₩ X. |
| >_ Console | Briker 2.0.4 "Luwak" Installatiun Menu | Full |
| Options | Goot from first hard disk Install Briker Base unattended | |
| Task History Monitor | Test memory | |
| 🖞 Backup | | |
| 9 Snapshots 0 Firewall | | |
| Permissions | | |
| | Press [Tab] to edit options | |
| | | |

11. Arahkan pilihan dengan tombol arah ke Install Briker with wizard,tekan enter



12. Setelah loading, pillih Select from worldwide list, tekan enter



(Tab> moves; <Space> selects; <Enter> activates buttons

13. Pilih Jakarta, tekan enter



14. Pilih Guided – use entire disk and set up LVM, tekan enter



- <Tab> moves; <Space> selects; <Enter> activates buttons
- 15. Pilih disk yang digunakan, tekan enter



<Tab> moves; <Space> selects; <Enter> activates buttons

16. Pilih Yes, tekan enter

| [!!] Partition disks | |
|---|--|
| Before the Logical Volume Manager can be configured partitioning scheme has to be written to disk. Thes be undone. | , the current e changes cannot |
| After the Logical Volume Manager is configured, no to the partitioning scheme of disks containing phys allowed during the installation. Please decide if y with the current partitioning scheme before continu | additional change ical volumes are you are satisfied ing. |
| The partition tables of the following devices are c SCSI3 (0,0,0) (sda) | changed: |
| Write the changes to disks and configure LVM? | |
| <yes></yes> | <no></no> |
| | |

<Tab> moves; <Space> selects; <Enter> activates buttons

17. Tekan enter

| You may use the whole volume group for guided partitioning, or part of it. If you use only part of it, or if you add more disks later, then you will be able to grow logical volumes later using the LVM tools, so using a smaller part of the volume group at installation time may offer more flexibility. The minimum size of the selected partitioning recipe is 3.0 GB (or 5%); please note that the packages you choose to install may require more space than this. The maximum available size is 53.4 GB. Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percentage (e.g. "20%") to use that percentage of the maximum size. |
|---|
| Amount of volume group to use for guided partitioning: 53.4 GB <go back=""></go> |

18. Pilih Yes, tekan enter

| [!!] Partition disks | |
|--|-----------------------|
| If you continue, the changes listed below will be written disks. Otherwise, you will be able to make further change | to the s manually. |
| The partition tables of the following devices are changed LVM VG ippbx-vg, LV root LVM VG ippbx-vg, LV swap_1 SCSI3 (0,0,0) (sda) | : |
| The following partitions are going to be formatted: LVM VG ippbx-vg, LV root as ext4 LVM VG ippbx-vg, LV swap_1 as swap partition #1 of SCSI3 (0,0,0) (sda) as ext2 | |
| Write the changes to disks? | |
| KYes> | <no></no> |
| | |
| | |

; <Space> selects; <Enter> activates buttons Tab> moves

19. Tunggu selama pemartisian, instalasi sistem dan paket aplikasi serta boot loader

| Dader |
|---|
| |
| |
| |
| |
| |
| |
| Partitions formatting |
| 33% |
| Creating ext4 file system for / in partition #1 of LVM VG ippbx-vg, |
| |
| |
| |
| |
| |
| |
| |

| Installing the system |
|---|
| 83% Preparing linux-firmware (amd64) |
| |
| |
| |
| Colect and install asftware b |
| Configuring python2.7 (amd64) |
| |
| |

| Installing GRUB boot loader | |
|-----------------------------|--|
| Configuring grub–pc (amd64) | |
| | |
| | |
| | |

| | ⊢ Finishing the installation 15% | |
|-----------------|-------------------------------------|--|
| Running preseed | | |
| | | |

20. Pilih Yes, tekan enter

| Γ | [!] Finish the installation System clocks are generally set to Coordinated Universal Time (UTC). The operating system uses your time zone to convert system time into |
|---|---|
| | system that expects the clock to be set to local time. Is the system clock set to UTC? |
| | <go back=""> <yes> <no></no></yes></go> |
| | |

<Tab> moves; <Space> selects; <Enter> activates buttons

21. Tunggu proses penyelesaian instalasi Briker hingga selesai

Please Wait, for Briker final installation

22. Login dengan user root dan password Briker



24. Tekan tombol Insert, lalu sesuaikan IP, netmask, network, broadcast dan gateway dengan Jaringan VI AN yang disambungkan pada Briker



12,25-32

25. Tekan tombol escape (pada saat menggunakan console proxmox, maka anda perlu menekan esc 2x) lalu ketikkan "wo" tekan enter

```
perlu menekan esc 2x),lalu ketikkan ":wq",tekan enter
# This file describes the metwork interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
# The loopback metwork interface
auto lo
iface lo inet loopback
# The primary metwork interface
auto eth0
iface eth0 inet static
    address 99.99.99.3
    getuany 59.99.99.3
    getuany 59.99.99.3
    getuany 59.99.99.3
    getuany 59.99.99.3
    getuany 59.99.99.3
    getuany 59.99.91
    # dns== options are implemented by the resolvconf package, if installed
    dns==metervers 127.0.0.1
    dns==search ippbx.briker.lan
```

26.Restart jaringan dengan perintah "ifdown eth0 && ifup eth0".Cek IP dengan perintah ifconfig,tekan enter



27.Masukkan IP Briker pada Web Browser Client.Klik Advaced,lalu Add Exception

| ⊕ ① https://99.99.99.2 | 🛛 🕾 🗏 🔍 install briker bic | ÷ 1 |
|------------------------|----------------------------|-----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Your connection | on is not secure | |

| Learn more | |
|--|----------|
| Co Back | Advanced |
| Report errors like this to help Mozilla identify and block malicious sites | |
| | |
| | |
| 99.99.99.2 uses an invalid security certificate. | |
| 99.99.99.2 uses an invalid security certificate. The certificate is not trusted because it is self-signed. The certificate is not valid for the name 99.99.99.2. | |
| 99.99.99.2 uses an invalid security certificate. The certificate is not trusted because it is self-signed. The certificate is not valid for the name 99.99.99.2. Error code: SEC_ERROR_UNKNOWN_ISSUER | |

28. Masukkan username Administrator dan password Briker

| Briker 2.0.4 "Luwak" | | i a ci |
|---|---------------------------------------|--|
| Home IPPBX Administration Billing CDR ACD Statistics User | r Portal Pax | Operator Panel Server ! Briker Core © 2008 PT. Infotech Media ! |
| | Bippex Login Username Password Ecogin | |

29. Anda akan memasuki halaman rumah Briker

| Briker 2.0.4 "Luwak" | | ir ü |
|---|---|--|
| Home IPPBX Administratio | n Billing CDR ACD Statistics User Portal Fax | Operator Panel Server N Briker Core © 2008 PT. Snfotech Media N |
| Logged in: Administrator Status: Administrator | About Briker Changelog F.A.Q License | |
| Home My Account Preferences Administration | Briker 2.0.4 "Luwak" Release date: 160714 Firmware: 2041607141313 | |
| | Briker is an IPPEX software, a softswitch. Briker will automagically convert your computer into a powerfull PBX machine with IP communication support built-in. | |
| | For supports and informations feel free to visit http://www.briker.org | |

30. Untuk mengatur VOIP, klik pada IPPBX Administration, lalu klik Extensions

| Briker 2.0.4 "Luwak" | | | , | | la ri |
|------------------------------------|--|---|-------------------|------------|---|
| Home IPPBX Administrat | ion Billing CDR ACD Statistics User Portal Pax | | | | Operator Panel Server DPBX Administration Powered by Fre |
| Setup Tools Admin | IPPBX Status | | | | |
| Resia | IPPBX Notices | | System Statistics | | |
| Bulk Extensions Custom Contexts | No new notifications show all | | Processor | | |
| Device Auto Provisioning | | | Load Average | 0.00 | |
| Extensions | IPPBX Statistics | _ | CPU | 1% | |
| Feature Codes | Total active calls | 0 | Nation y | | |
| General Settings | Internal calls | 0 | App Menory | 31% | |
| Outbound Routes | External calls | 0 | Swap | 0% | |
| Trunks | Total active channels | 0 | Disks | | |
| Inbound Call Control | IPPBX Connections | | /dev | 0% | |
| Inbound Routes | IP Trunks Online | 0 | /run | 0% | |
| Zap Channel DIDs | IP Trunk Registrations | 0 | skerandtonb | 0% | |
| Announcements | | | runioce | 0% | |
| Blacklist | Uptime | | Jrunghm | 0% | |
| CallerID Lookup Sources | | | runiuser | 176 | |
| DayNight Control | System Uptime: 46 minutes | | Naturalia | 1756 | |
| Follow Me | IPPBX Server Uptime: 46 minutes | | NT NOTAS | | |
| IVR | Last Reload: 46 minutes | | eth0 receive | 1.93 KB/6 | |
| Queues / ACD | | | eth0 transmit | 10.84 KB/8 | |
| Ring Groups | | | Server Status | | |
| Time Conditions | | | 1 | | |
| Internal Options & Configuration | | | IPPBX Server | OK | |
| Callback | | | Database Server | OK | |

31.Pada praktik ini,kita menggunakan SIP yang disupport oleh Zoiper.KlikSubmit

| Home I IPPRX Administra | tion Billion CDR ACD Statistics User Portal Pay | Oberator Banel 1. Server |
|----------------------------------|---|---------------------------------|
| rinnie 1 mense stammen | and I mainly I cost I need addresses I was started I use | THE Assessment Present to Party |
| | | |
| Setup Tools | | |
| Admin | Add an Extension | |
| PPBX Status | | Add Entry |
| Duk Erlessines | Please select your Device below then click Submit | |
| During Contacts | Dextor | |
| Cessorii Conexts | | |
| Device Auto Provisioning | and an an an and a second s | |
| E ding or in | Device Generic Sill Device * | |
| Feature Codes | | |
| General Settings | Submit | |
| Outbound Routes | | |
| Trunka | | |
| ressared East: Control | | |
| Inbound Routes | | |
| Zap Ghannel DIDa | | |
| Announcements | | |
| Blackfel | | |
| Caller® Lookup Sources | | |
| Day/Night Control | | |
| Follow Me | | |
| VR | | |
| Queues / ACD | | |
| Ring Groups | | |
| Time Conditions | | |
| Internal Options & Configuration | | |
| Caliback | | |

32. Pada User Extension, masukkan nomer telepon yang digunakan untuk VOIP.Beri nama tampilan untuk user.Add SIP Extension

| Add Extension | | |
|-------------------|-------------|--|
| User Extension | 62001 | |
| Display Name | Teddy Harfa | |
| CID Num Alias | | |
| SIP Alias | | |
| Extension Options | | |
| Direct DID | | |
| DID Alert Info | | |
| Music on Hold | acc_1 ¥ | |
| Outbound CID | | |
| Ring Time | Default 🗸 | |
| Call Waiting | Enable 🗸 | |
| Emergency CID | | |

33. Scroll ke bawah hingga accountcode, lalu masukkan kembali nomer telepon. Pada secret, masukkan password untuk user VOIP

This device uses sip technology. calllimit 1 calltimer 0 accountcode 62001 secret 123456 dtmfmode rfc2833 deny 0.0.0.0/0.0.0.0 permit 0.0.0.0/0.0.0.0 from-internal context disallow all alaw&ulaw&h263p allow

Device Options

34. Scroll ke bawah, klik Submit

Voicemail & Directory

| Status | Disabled 🗸 | | |
|---------------------|------------------|------|--|
| Voicemail Password | | | |
| Email Address | | | |
| Pager Email Address | | | |
| Email Attachment | ⊖ _{yes} | 💿 no | |
| Play CID | ⊖ _{yes} | 💿 no | |
| Play Envelope | ⊖ _{yes} | 🗿 no | |
| Delete Vmail | ⊖ _{yes} | 💿 no | |
| VM Options | | | |
| VM Context | default | | |
| VmX Locater™ | Disable | ed 🗸 | |

Submit

35. Tambahkan user lain dengan mengulangi 3 langkah diatas. Sesuaikan dengan kebutuhan

| Appy Configuration Changes | |
|--|-------------------|
| Add an Extension | |
| Blassa saladi wur Davine balaur iban alick Sutemit | Add Extension |
| Piesse serect your bende berow men crick submit | Teddy Harfa <6200 |
| Device | |
| Device Generic SIP Device 👻 | |
| Submit | |

36. Setelah cukup menambahkan user, klik Apply Configuration Changes

| Briker 2.0.4 "Luwak" | | Qri Qri |
|--------------------------------|---|---|
| Home IPPBX Administ | ration Billing CDR ACD Statistics User Portal Fax | Operator Panel Server # |
| | | IPPEX Administration Assessed by Free |
| Constant I | App configuration Charges | |
| SWEED TOOLS | Add an Extension | |
| IPPBX Status | | |
| Beatty | Please select your Device below then click Submit | - With Francisco |
| Bulk Extensions | | Teddy Harta <62001 |
| Gustern Contexts | Depise | Zainal Fanani «6200 |
| Device Auto Provisioning | | Yosi Novita <62003> |
| Extensions | Device Generic SIP Device Y | Rizky Nurwinda dizi |
| Feature Codes | | |
| General Settings | Submit | |
| Outbound Routes | | |
| Trunka | | |
| edinary/Call Serbel | | |
| Inbound Routes | | |
| Zap Channel DIDs | | |
| Announcements. | | |
| Blacklist | | |
| CallerID Lookup Sources | | |
| DayNight Control | | |
| Follow Me | | |
| IVR. | | |
| Queues / ACD | | |
| Ring Groups | | |
| Time Conditions | | |
| Rennal Options & Configuration | | |
| Caliback | | |

37. Klik Continue with reload

| Apply Configuration Changes | | | |
|---|--|--|--|
| Reloading will apply all configuration changes made in IPPBX to your PBX engine and make them active. | | | |
| Continue with reload | | | |
| $^{\otimes}$ Cancel reload and go back to editing | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

38.Berpindah ke Zoiper,Klik Setting,lalu Create a new Accout.Pilih tipe akun SIP,klik NEXT

| Account wizard | |
|--------------------|--|
| Account type | |
| SIP IAX XMPP | |
| | |
| × Close NEXT → | |

39. Masukkan "nomer telepon@IP Briker" pada user@host,lalu masukkan password,klik NEXT

| Account wizard | 8 |
|-----------------------------------|---|
| Credentials | |
| user / user@host 62001@99.99.99.2 | |
| Password | |
| Domain / Outbound proxy | |
| | |
| REXT REXT | |

| Account wizard | 8 |
|-------------------------------|---|
| Account name | |
| Account name 62001@99.99.99.2 | |
| | |
| Skip auto-detection | |
| | |
| EACK NEXT - | |

40. Klik NEXT

41.Login pada perangkat lain dengan seperti langkah sebelumnya.Tesdengan melakukan call pada tab dial.Terima telepon di perangkat penerima

| 20IPER Incom | ning | |
|---|-------------------|-------------|
| Incoming Call from: Zainal Fanani 62002 62001@99.99.99.2 | | |
| L Answer | 📑 Video | 🐢 Reject |
| ✓ Ignore | ≓ Transfer | 🖾 VoiceMail |

42. Tes dengan saling berbincang-bincang.

| 🥝 ZOIPER | | • • |
|--|--|---------------------------|
| | Settings + | Help 🖌 🧱 |
| Find a contact | | CALL |
| Contacts Histor | y Dialpad | Calls |
| Zaina 62002 Estab 62001 ■ Hang Up ■ Transfer ■ 11 | al Fanani 2 lished 1@99.99.99.2 Record Hold | 00:01:20 a-law Conf |
| These features a | • Designment of the second sec | Toggle Micro |
| On the phone + | 😭 0 new 🛷 | 0 missed 🛞 |

Bab V Hasil yang Didapatkan

Client dapat saling berhubungan melalui VOIP.

Bab VI Permasalahan yang dihadapi

Untuk mengedit file /etc/network/interfaces,kita tidak dapat menggunakan nano (text editor di linux yang biasa saya pakai) ataupun mcedit (text editor yang digunakan pada dokumentasi lawas).Setelah saya membaca dokumentasi official Briker,ternyata text editor yang digunakan adalah vim.

Selain itu,pada saat proses VOIP (telepon),koneksi akan cukup mempengaruhi kualitas suara yang dihasilkan.

Bab VII Kesimpulan

Layaknya pada radio streaming,koneksi akan mempengaruhi output yang dihasilkan pada saat berkomunikasi menggunakan VOIP.

Bab VIII Referensi

• Briker Official Documentation (Indonesia)