

```
joe@corellia: ~  
joe@corellia: ~/Pictures/Screenshots x joe@corellia: ~ x joe@corellia: ~ x  
jfranco@desdemona:~$ echo "Create a vm in the correct vlan with 2048 memory and 12 G HD"  
Create a vm in the correct vlan with 2048 memory and 12 G HD  
jfranco@desdemona:~$ citv createvm  
A machine name, RAM(MB) size, disk size(GB), VLAN(number) must be specified.  
A CPU count may be specified.  
jfranco@desdemona:~$ citv getip IT4500  
User has checked out the ips 144.38.221.184 - 144.38.221.191 for IT4500 in vlan 3184. IPV6 2001:1948:  
0e10:21c7::1/64.  
jfranco@desdemona:~$ echo "You should use the appropriate course name, not the one above"  
You should use the appropriate course name, not the one above  
jfranco@desdemona:~$ citv createvm f23-template 2048 12 3184  
/qemu/bin/qemu-new-image jfranco-f23-template 12 /qemu/images;  
Formatting '/qemu/images/jfranco-jfranco-f23-template.img', fmt=raw size=12884901888  
User jfranco has created the machine f23-template : 15 with 2048 memory  
jfranco@desdemona:~$
```

```
jfranco@desdemona:~$ citv bootvm f23-template d jammy_server
/usr/bin/ssh -q ophelia "/qemu/bin/qemu-boot 15 'jfranco-f23-template' 2048 '52:54:00:08:00:0E' '' '
' 'jammy_server' 'd' 1 1 3184 '/qemu/images' 1;"
User(jfranco) has booted machine(f23-template) on server(ophelia:15) with 2048 memory.
jfranco@desdemona:~$ echo "That booted from the install media, after you install, make sure to boot
from c drive"
That booted from the install media, after you install, make sure to boot from c drive
jfranco@desdemona:~$
```

```
joe@corellia:~$ echo "Create your tunnel and then use your favorite vnc viewer"
```

```
Create your tunnel and then use your favorite vnc viewer
```

```
joe@corellia:~$ ssh jfrancom@ssh.cs.utahtech.edu -L 5915:ophelia:5915
```



```
jfranc@ssh:~$ echo "If you wait a minute or so, you should see the following screen"  
If you wait a minute or so, you should see the following screen  
jfranc@ssh:~$
```

Remote View Bookmarks Help

✓ Connect ✗      Send Ctrl-Alt-Del

Willkommen! Bienvenue! Welcome! Добро пожаловать! Welkom!

[ Help ]

Use UP, DOWN and ENTER keys to select your language.

```
[ Asturianu          ]
[ Bahasa Indonesia  ]
[ Català            ]
[ Deutsch           ]
[ English           ]
[ English (UK)     ]
[ Español          ]
[ Français         ]
[ Galego           ]
[ Hrvatski         ]
[ Latviski         ]
[ Lietuviškai     ]
[ Magyar           ]
[ Nederlands       ]
[ Norsk bokmål     ]
[ Polski           ]
[ Português        ]
[ Suomi           ]
[ Svenska          ]
[ Čeština         ]
[ Ελληνικά        ]
[ Беларуская      ]
[ Русский         ]
[ Српски          ]
[ Українська      ]
```

Remote View Bookmarks Help

✓ Connect ✗      Send Ctrl-Alt-Del

## Keyboard configuration

[\[ Help \]](#)

Please select your keyboard layout below, or select "Identify keyboard" to detect your layout automatically.

Layout: [ English (US) ▼ ]

Variant: [ English (US) ▼ ]

[\[ Identify keyboard \]](#)[\[ Done \]](#)  
[\[ Back \]](#)

## Choose type of install

[ Help ]

Choose the base for the installation.

Ubuntu Server

The default install contains a curated set of packages that provide a comfortable experience for operating your server.

Ubuntu Server (minimized)

This version has been customized to have a small runtime footprint in environments where humans are not expected to log in.

Additional options

Search for third-party drivers

This software is subject to license terms included with its documentation. Some is proprietary. Third-party drivers should not be installed on systems that will be used for FIPS or the real-time kernel.

[ Done ]  
[ Back ]

## Network connections

[ Help ]

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

NAME	TYPE	NOTES	
[ ens4	eth	-	◀ (close)
DHCPv4	-		Info ▶
52:54:00:08:00:0e / Realtek Semi			Edit IPv4 ▶
(QEMU Virtual Machine)			Edit IPv6 ▶
			Add a VLAN tag ▶
[ Create bond ▶			

RTL-8100/8101L/8139 PCI Fast Ethernet Adapter

[ Done ]  
[ Back ]



Remote View Bookmarks Help

✓ Connect ✗      Send Ctrl-Alt-Del

## Network connections

[ Help ]

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

NAME	TYPE	NOTES
[ ens4	eth	- ▶ ]
DHCPv4	-	
52:54:00:08:00:0e / Realtek Semiconductor Co., Ltd. / RTL-8100/8101L/8139 PCI Fast Ethernet Adapter (QEMU Virtual Machine)		

[ Create bond ▶ ]

## Edit ens4 IPv4 configuration

IPv4 Method:

  
Manual  
Disabled

[ Cancel ]

[ Done ]  
[ Back ]

```
jfrancom@desdemona:~$ citv getip IT4500
User has checked out the ips 144.38.221.184 - 144.38.221.191 for IT4500 in vlan 3184. IPV6 2001:1948:0e10:21c7::1/64.
jfrancom@desdemona:~$ echo "Remember that +1 is the gateway address, so mine is 185"
Remember that +1 is the gateway address, so mine is 185
jfrancom@desdemona:~$ echo "Your cidr may be different from mine as well"
Your cidr may be different from mine as well
jfrancom@desdemona:~$ █
```

## Network connections

[ Help ]

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

NAME	TYPE	NOTES
[ ens4	eth	- ▶ ]
DHCPv4 -		
52:54:00:08:00:0e / Realtek Semiconductor Co., Ltd. / RTL-8100/8101L/8139 PCI Fast Ethernet Adapter (QEMU Virtual Machine)		

[ Create bo

## Edit ens4 IPv4 configuration

IPv4 Method: [ Manual ▼ ]

Subnet: 144.38.221.184/29

Address: 144.38.221.186

Gateway: 144.38.221.185

Name servers: 8.8.8.8,8.8.4.4

IP addresses, comma separated

Search domains: cs.utahtech.edu\_

Domains, comma separated

[ Save ]  
[ Cancel ][ Done ]  
[ Back ]

## Network connections

[ Help ]

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

NAME	TYPE	NOTES
[ ens4	eth	- ▶ ]
static	144.38.221.186/29	
52:54:00:08:00:0e / Realtek Semiconductor Co., Ltd. / RTL-8100/8101L/8139 PCI Fast Ethernet Adapter (QEMU Virtual Machine)		

[ Create bond ▶ ]

[ Done ]  
[ Back ]

Remote View Bookmarks Help

✓ Connect ✗      Send Ctrl-Alt-Del

Configure proxy

[ Help ]

If this system requires a proxy to connect to the internet, enter its details here.

Proxy address:

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user] [:pass]@]host[:port]/".

[ Done ]  
[ Back ]



```
jfrancom@desdemona:~$ echo "You don't have to change the mirror, but things may work better if you do"
```

```
You don't have to change the mirror, but things may work better if you do
```

```
jfrancom@desdemona:~$
```

Remote View Bookmarks Help

✓ Connect ✗      Send Ctrl-Alt-Del

Configure Ubuntu archive mirror

[ Help ]

If you use an alternative mirror for Ubuntu, enter its details here.

Mirror address: 

You may provide an archive mirror that will be used instead of the default.

[ Done ]  
[ Back ]



```
jfrancom@desdemona:~$ echo "I changed mine to http://mirror.cs.utahtech.edu/ubuntu"  
I changed mine to http://mirror.cs.utahtech.edu/ubuntu  
jfrancom@desdemona:~$
```



Remote View Bookmarks Help

✓ Connect ✗      Send Ctrl-Alt-Del

Installer update available

[ Help ]

Version 23.04.2 of the installer is now available (23.02.1 is currently running).

You can read the release notes for each version at:

<https://github.com/canonical/subiquity/releases>

If you choose to update, the update will be downloaded and the installation will continue from here.

[ Update to the new installer ]

[ Continue without updating ]

[ Back ]

## Guided storage configuration

[\[ Help \]](#)

Configure a guided storage layout, or create a custom one:

 Use an entire disk [ QEMU\_HARDDISK\_QM00001 local disk 12.000G ▼ ] Set up this disk as an LVM group Encrypt the LVM group with LUKS

Passphrase:

Confirm passphrase:

 Custom storage layout

## Storage configuration

[ Help ]

## FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	11.997G	new ext4	new partition of local disk ▶ ]

## AVAILABLE DEVICES

No available devices

[ Create software RAID (md) ▶ ]  
[ Create volume group (LVM) ▶ ]

## USED DEVICES

DEVICE	TYPE	SIZE
[ QEMU_HARDDISK_QM00001	local disk	12.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶
partition 2	new, to be formatted as ext4, mounted at /	11.997G ▶

[ Done ]  
[ Reset ]  
[ Back ]

## Storage configuration

[ Help ]

## FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	11.997G	new ext4	new partition of local disk ▶ ]

## AVAILABLE DEVICES

No available devices

[ Create software RAID (md) ▶ ]  
[ Create volume group (LVM) ▶ ]

## USED DEVICE

DEVICE  
[ QEMU\_HARD  
partition  
partition

## Confirm destructive action

Selecting Continue below will begin the installation process and result in the loss of data on the disks selected to be formatted.

You will not be able to return to this or a previous screen once the installation has started.

Are you sure you want to continue?

[ No ]  
[ Continue ]

[ Done ]  
[ Reset ]  
[ Back ]

Remote View Bookmarks Help

✓ Connect ✗      Send Ctrl-Alt-Del

## Profile setup

[\[ Help \]](#)

Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.

Your name: Your server's name:   
The name it uses when it talks to other computers.Pick a username: Choose a password: Confirm your password: [\[ Done \]](#)

## Upgrade to Ubuntu Pro

[ Help ]

Upgrade this machine to Ubuntu Pro for security updates on a much wider range of packages, until 2032. Assists with FedRAMP, FIPS, STIG, HIPAA and other compliance or hardening requirements.

[ About Ubuntu Pro ► ]

( ) Enable Ubuntu Pro

(X) Skip for now

You can always enable Ubuntu Pro later via the 'pro attach' command.

[ Continue ]  
[ Back ]

Remote View Bookmarks Help

 Connect       Send Ctrl-Alt-Del

## SSH Setup

[\[ Help \]](#)

You can choose to install the OpenSSH server package to enable secure remote access to your server.

Install OpenSSH server

Import SSH identity:  ▼

You can import your SSH keys from GitHub or Launchpad.

Import Username:

Allow password authentication over SSH

[\[ Done \]](#)  
[\[ Back \]](#)

## Featured Server Snaps

[ Help ]

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package, publisher and versions available.

<input type="checkbox"/>	microk8s	canonical✓	Kubernetes for workstations and appliances	▶
<input type="checkbox"/>	nextcloud	nextcloud✓	Nextcloud Server - A safe home for all your data	▶
<input type="checkbox"/>	wekan	xet7	The open-source kanban	▶
<input type="checkbox"/>	kata-containers	katacontainers✓	Build lightweight VMs that seamlessly plug into the	▶
<input type="checkbox"/>	docker	canonical✓	Docker container runtime	▶
<input type="checkbox"/>	canonical-livepatch	canonical✓	Canonical Livepatch Client	▶
<input type="checkbox"/>	rocketchat-server	rocketchat✓	Rocket.Chat server	▶
<input type="checkbox"/>	mosquitto	mosquitto✓	Eclipse Mosquitto MQTT broker	▶
<input type="checkbox"/>	etcd	canonical✓	Resilient key-value store by CoreOS	▶
<input type="checkbox"/>	powershell	microsoft-powershell✓	PowerShell for every system!	▶
<input type="checkbox"/>	stress-ng	cking-kernel-tools	tool to load and stress a computer	▶
<input type="checkbox"/>	sabnzbd	safihre	SABnzbd	▶
<input type="checkbox"/>	wormhole	snappcrafters	get things from one computer to another, safely	▶
<input type="checkbox"/>	aws-cli	aws✓	Universal Command Line Interface for Amazon Web Serv	▶
<input type="checkbox"/>	google-cloud-sdk	google-cloud-sdk✓	Google Cloud SDK	▶
<input type="checkbox"/>	slcli	softlayer	Python based SoftLayer API Tool.	▶
<input type="checkbox"/>	doctl	digitalocean✓	The official DigitalOcean command line interface	▶
<input type="checkbox"/>	conjure-up	canonical✓	Package runtime for conjure-up spells	▶
<input type="checkbox"/>	postgresql10	cmd✓	PostgreSQL is a powerful, open source object-relatio	▶
<input type="checkbox"/>	heroku	heroku✓	CLI client for Heroku	▶
<input type="checkbox"/>	keepalived	keepalived-project✓	High availability VRRP/BFD and load-balancing for Li	▶
<input type="checkbox"/>	prometheus	canonical✓	The Prometheus monitoring system and time series dat	▶
<input type="checkbox"/>	juju	canonical✓	Juju - a model-driven operator lifecycle manager for	▶

[ Done ]  
[ Back ]





```
jfranc@desdemona:~$ echo "Give that a few minutes, then reboot when prompted"  
Give that a few minutes, then reboot when prompted  
jfranc@desdemona:~$
```