

WEB HOSTS

RECOMMENDED WEB HOST: VULTR

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<https://www.vultr.com/?ref=9631046-9J>

Ubuntu Pro:

<https://ubuntu.com/pro>

Ubuntu Pro Guide:

<https://discourse.ubuntu.com/t/ubuntu-pro-beta-tutorial/31018>

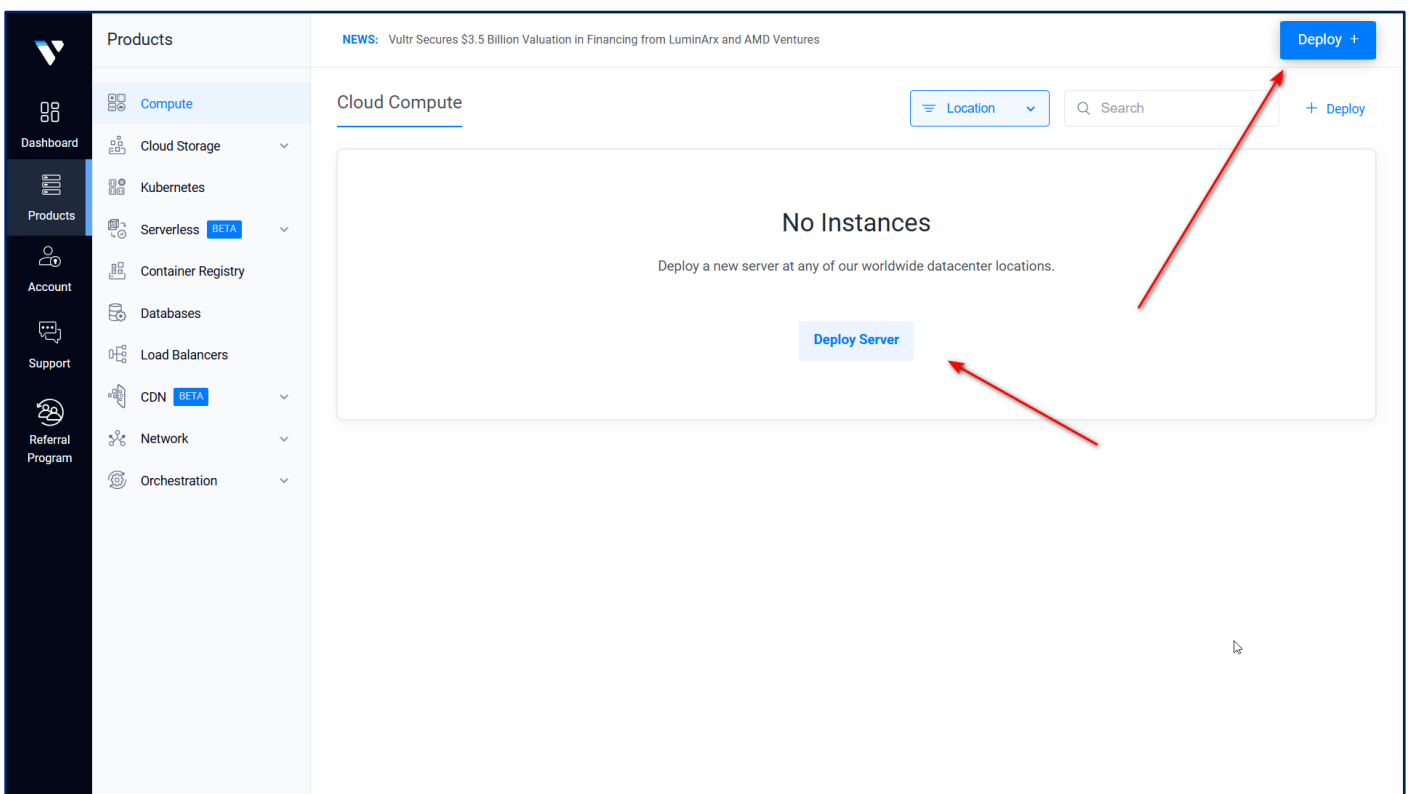
Recommended Web Host, Vultr: free \$300 credit - the credit is valid for 30 days – signup for a Vultr account using the link below and Vultr will credit your account with \$300

<https://www.vultr.com/?ref=9631046-9J>

CREATING A VULTR SERVER INSTANCE:

Vultr have changed the interface when creating a server instance. The options are the same, it's the layout that's different.

After creating a Vultr account, using the link above, you must login to Vultr to **start the server creation process** and **SELECT DEPLOY**



The screenshot displays the Vultr dashboard interface. On the left is a dark sidebar with navigation icons for Dashboard, Products, Account, Support, Referral Program, and Orchestration. The main content area is titled 'Cloud Compute' and features a 'Deploy +' button in the top right corner. Below this, there is a search bar and a 'Location' dropdown menu. The central part of the dashboard shows a large white box with the text 'No Instances' and 'Deploy a new server at any of our worldwide datacenter locations.' A prominent blue 'Deploy Server' button is centered within this box. Two red arrows are overlaid on the image: one points from the top right towards the 'Deploy +' button, and another points from the bottom right towards the 'Deploy Server' button.

Then you need to Select the Type of Server and the location:

For the server type, select SHARED CPU, which is Vultr's terminology for a VPS and select a data centre location. I discuss the location in detail in the video lectures.

The screenshot shows the 'Deploy a Server' interface with 'Dedicated CPU' selected. The 'Choose Type' section has 'Dedicated CPU' highlighted with a red dashed box. The 'Filter Locations' section shows a list of locations with 'Atlanta, Georgia (ATL)' selected. The 'Available Services' section includes 'Dedicated CPU', 'Shared CPU', 'Bare Metal', 'VPC Network', 'DDoS Protection', 'Block Storage', 'Load Balancers', and 'Kubernetes Engine'. The 'Compliance' section includes 'SOC 2 Type 1', 'SOC 2 Type 2', 'ISO 27001', 'PCI-DSS', and 'HITRUST'. The 'Deploy Summary' section shows 'Location: Atlanta, US', 'Dedicated CPU: voc-c-1c-2gb-25s', 'Cores: 1 vCPU', 'Memory: 2 GB', 'Storage: 25 GB', 'Image: ---', 'Automatic Backups: Enabled (\$5.60 /mo)', and 'Quantity: 1'. The 'Total Price' is \$28.00/mo. The 'Configure' button is visible.

Here I've selected SHARED CPU as my server type

The screenshot shows the 'Deploy a Server' interface with 'Shared CPU' selected. The 'Choose Type' section has 'Shared CPU' highlighted with a red dashed box. The 'Filter Locations' section shows a list of locations with 'Atlanta, Georgia (ATL)' selected. The 'Available Services' section includes 'Dedicated CPU', 'Shared CPU', 'Bare Metal', 'VPC Network', 'DDoS Protection', 'Block Storage', 'Load Balancers', and 'Kubernetes Engine'. The 'Compliance' section includes 'SOC 2 Type 1', 'SOC 2 Type 2', 'ISO 27001', 'PCI-DSS', and 'HITRUST'. The 'Deploy Summary' section shows 'Location: Atlanta, US', 'Shared CPU: vc2-1c-2gb', 'Cores: 1 vCPU', 'Memory: 2 GB', 'Storage: 55 GB', 'Image: ---', 'Automatic Backups: Enabled (\$2.00 /mo)', and 'Quantity: 1'. The 'Total Price' is \$2.00/mo. The 'Configure' button is visible.

The location is set to Amsterdam.

The screenshot shows the 'Deploy a Server' interface. On the left, there are navigation links for Dashboard, Products, Account, Support, and Referral Program. The main area is titled 'Deploy a Server' with a 'Beta' tag. Below this, there are four server type options: Dedicated CPU, Cloud GPU, Shared CPU (selected), and Bare Metal. The 'Shared CPU' section includes a description: 'Virtual machines for apps with bursty performance, e.g. low traffic websites, blogs, CMS, dev/test environments, and small databases.' and a link to 'Learn More About Shared CPU'. In the center, there is a 'Filter Locations' section with a search bar and a list of locations. 'Amsterdam, Netherlands (AMS)' is selected and highlighted with a red dashed box. To the right of the location list, there are 'Available Services' (Dedicated CPU, Shared CPU, Bare Metal, Container Registry, VPC Network, DDoS Protection, Object Storage, Block Storage, File System, Load Balancers, Kubernetes Engine) and 'Compliance' options (SOC 2 Type 2, ISO 27001, PCI-DSS). On the far right, the 'Deploy Summary' shows the selected location (Amsterdam, NL), Shared CPU (vc2-1c-2gb), Cores (1 vCPU), Memory (2 GB), and Storage (55 GB). There is a 'Quantity' field set to 1 and a 'Total Price' of \$12.00/mo. A blue 'Configure' button is at the bottom right.

Now you must select the resources for your server, that is the number of CPU cores, RAM (memory), storage and bandwidth.

This screenshot shows the 'Filter Plans...' table, which is highlighted with a red dashed box. The table has columns for Name, Cores, Memory, Storage, Bandwidth, and Price. It lists several plans under different categories: Cloud Compute, High Frequency, and High Performance. The 'vc2-1c-2gb' plan is selected, indicated by a blue checkmark in the rightmost cell. The 'Deploy Summary' on the right side of the interface is also visible, showing the same configuration as the previous screenshot: Location (Amsterdam, NL), Shared CPU (vc2-1c-2gb), Cores (1 vCPU), Memory (2 GB), Storage (55 GB), and a Total Price of \$12.00/mo (\$0.017/hr). A blue 'Configure' button is at the bottom right.

	Name	Cores	Memory	Storage	Bandwidth	Price
Cloud Compute	vc2-1c-0.5gb-free	1 vCPU	0.5 GB	10 GB SSD	0 TB/mo	\$0.00/mo \$0.000/hr
High Frequency	vc2-1c-0.5gb-v6	1 vCPU	0.5 GB	10 GB SSD	0.5 TB/mo	\$2.50/mo \$0.003/hr
High Performance	vc2-1c-0.5gb	1 vCPU	0.5 GB	10 GB SSD	0.5 TB/mo	\$3.50/mo \$0.005/hr
	vc2-1c-1gb	1 vCPU	1 GB	25 GB SSD	1 TB/mo	\$5.00/mo \$0.007/hr
	vhf-1c-1gb	1 vCPU	1 GB	32 GB NVMe	1 TB/mo	\$6.00/mo \$0.008/hr
	vhp-1c-1gb	1 vCPU	1 GB	25 GB NVMe	2 TB/mo	\$6.00/mo \$0.008/hr
	vc2-1c-2gb	1 vCPU	2 GB	55 GB SSD	2 TB/mo	\$10.00/mo \$0.014/hr

In this example, I selected a single CPU core, 1GB RAM, 25GB SSD drive and 1TB bandwidth.

The screenshot shows a cloud provider's configuration interface. On the left, a sidebar contains navigation links for Dashboard, Products, Account, Support, and Referral Program. The main area is divided into several sections:

- Shared CPU:** A section describing virtual machines for apps with bursty performance, with a link to "Learn More About Shared CPU".
- Location Selection:** A grid showing regions like Europe (London, Manchester, Madrid, Paris, Stockholm) and their respective countries.
- Compliance:** A section listing standards like SOC 2 Type 2, ISO 27001, and PCI-DSS.
- Plan Selection Table:** A table with columns for Name, Cores, Memory, Storage, Bandwidth, and Price. The row for "vc2-1c-1gb" (1 vCPU, 1 GB, 25 GB SSD, 1 TB/mo) is highlighted with a red dashed border.
- Deploy Summary:** A panel on the right showing the selected configuration: Location (Amsterdam, NL), Shared CPU (vc2-1c-2gb), Cores (1 vCPU), Memory (2 GB), Storage (55 GB), and Automatic Backups (Enabled for \$2.00/mo). A "Disable" button is visible next to the backup status.

At the bottom, there are two steps: "Step 1: Select Location & Plan Configure Hardware" and "Step 2: Configure Software & Deploy Instance OS / Software / Deploy". A blue "Configure" button is at the bottom right.

After setting the server resources, I recommend you disable server backups. This is a practice server, automatic backups are not needed.

This screenshot is similar to the first one, showing the same configuration interface. The "vc2-1c-1gb" plan is still selected in the table. In the "Deploy Summary" panel, the "Automatic Backups" status has changed from "Enabled" to "Disable", and the price has updated to "\$6.00/mo (\$0.008/hr)". The "Disable" button is now highlighted with a blue background, indicating it is the active state.

Confirm you want to disable automatic backups.

The screenshot shows the 'Deploy a Server' interface. A modal dialog titled 'Disable Automatic Backups?' is centered on the screen. The dialog contains the following text:

Disable Automatic Backups?

You will lose all these benefits without having Automatic Backups enabled:

- Peace of Mind**
Easily restore lost data in the event of any kind of failure or error.
- Scalability**
Easily transport your backups to new deployments.
- Fast and Easy Disaster Recovery**
You can easily recover from a disaster by using the backed up image on a new instance.

Yes, I understand the risks.

Disable Automatic Backups Cancel

The background interface shows the 'Choose Type' section with 'Shared CPU' selected. The 'Filter Plans...' table lists the following plans:

All	Name	Cores	Memory	Storage	Bandwidth	Price
Cloud Compute	vc2-1c-0.5gb-free	1 vCPU	0.5 GB	10 GB SSD	0 TB/mo	\$0.00/mo \$0.000/hr
High Frequency						
High Performance	vc2-1c-0.5gb-v6	1 vCPU	0.5 GB	10 GB SSD	0.5 TB/mo	\$2.50/mo \$0.003/hr

The 'Deploy Summary' on the right shows:

- Location: Amsterdam, NL
- Shared CPU: vc2-1c-1gb
- Cores: 1 vCPU
- Memory: 1 GB
- Storage: 25 GB
- Image: ---
- Automatic Backups: Enabled (\$1.00 /mo) [Disable]
- Quantity: 1
- Total Price: \$6.00/mo (\$0.008/hr)

Buttons for 'Configure' and 'Deploy' are visible at the bottom right.

You can select Step 2 – Configure Software and Deploy Instance

The screenshot shows the 'Deploy a Server' interface with 'Step 2: Configure Software & Deploy Instance' highlighted in a red dashed box. The interface includes the following elements:

- Choose Type:** Dedicated CPU, Cloud GPU, Shared CPU (selected), Bare Metal.
- Filter Locations:** A list of locations including Amsterdam, Frankfurt, London, Manchester, Madrid, Paris, and Stockholm. The 'Amsterdam, Netherlands (AMS)' location is selected.
- Available Services:** Dedicated CPU, Shared CPU, Bare Metal, Container Registry, VPC Network, DDoS Protection, Object Storage, Block Storage, File System, Load Balancers, Kubernetes Engine.
- Compliance:** SOC 2 Type 2, ISO 27001, PCI-DSS.
- Deploy Summary:** Location: Amsterdam, NL; Shared CPU: vc2-1c-1gb; Cores: 1 vCPU; Memory: 1 GB; Storage: 25 GB; Image: ---; Automatic Backups: Disabled [Enable]; Quantity: 1; Total Price: ---.

The 'Configure' button is visible at the bottom right.

At this stage, select Ubuntu 22.04 or 24.04, depending on the course you are completing. DO NOT select a non LTS release like 24.10, only select 22.04 or 24.04.

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Deploy a Server Beta

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Operating System Marketplace Apps ISO/IPXE ISO Library Backup Snapshot

- AlmaLinux Select Version ▾
- Alpine Linux Latest x64
- Arch Linux Latest x64
- CentOS Select Version ▾
- Debian Select Version ▾
- Fedora Select Version ▾
- Fedora CoreOS Select Version ▾
- Flatcar Container Linux Select Version ▾
- FreeBSD Select Version ▾
- OpenBSD Select Version ▾
- Rocky Linux Select Version ▾
- Ubuntu** Select Version ▾
 - 20.04 x64
 - 22.04 x64
 - 24.04 x64**
 - 24.10 x64

Step 1: Select Location & Plan Configure Hardware Step 2: Configure Software & Deploy Instance OS / Software / Deploy

Deploy Summary

- Location: Amsterdam, NL
- Shared CPU: vc2-1c-1gb
- Cores: 1 vCPU
- Memory: 1 GB Storage: 25 GB
- Image: ---
- Automatic Backups: Disabled Enable
- Public IPv4: Enabled
- Quantity: 1

Back Deploy

The Server Settings can be left as is and only set the Server Hostname and Label. I discuss these options in the video lectures.

Server Settings

SSH Keys Select...

Startup Script Select... Firewall Group Select...

Server Hostname and Label

Server 1 Hostname Server 1 Label

Additional Features

- Automatic Backups** \$1.00/mo
Highly recommend for mission-critical systems. Backups enable easy recovery from a disaster by spinning up a new instance from a saved image. [Learn more about Automatic Backups](#)
- Public IPv4** Free
If checked, an IPv4 address will be assigned to the instance. Public IPv6 must be enabled to disable IPv4.
- Public IPv6** Free
If checked, an IPv6 address will be assigned to the instance.

Step 1: Select Location & Plan Configure Hardware Step 2: Configure Software & Deploy Instance OS / Software / Deploy

Deploy Summary

- Location: Amsterdam, NL
- Shared CPU: vc2-1c-1gb
- Cores: 1 vCPU
- Memory: 1 GB Storage: 25 GB
- Image: Ubuntu 24.04 LTS x64
- Automatic Backups: Disabled Enable
- Public IPv4: Enabled
- Quantity: 1
- Total Price: \$5.00/mo (\$0.007/hr)

Back Deploy

With Additional Features, ensure ONLY Public IPv4 is selected.

The screenshot shows the Vultr deployment configuration interface. On the left is a navigation sidebar with 'Dashboard', 'Products', 'Account', 'Support', and 'Referral Program'. The main area is divided into 'Additional Features' and 'Deploy Summary'. The 'Additional Features' section contains several options: 'Automatic Backups' (\$1.00/mo), 'Public IPv4' (Free), 'Public IPv6' (Free), 'DDoS Protection' (\$10.00/mo), 'VPC Network' (Free), 'Limited User Login' (Free), and 'Cloud-Init User-Data' (Free). The 'Public IPv4' option is highlighted with a blue checkmark. The 'Deploy Summary' section on the right shows configuration details: Location (Amsterdam, NL), Shared CPU (vc2-1c-1gb), Cores (1 vCPU), Memory (1 GB), Storage (25 GB), Image (Ubuntu 24.04 LTS x64), Automatic Backups (Disabled), Public IPv4 (Enabled), Quantity (1), and Total Price (\$5.00/mo). A red dashed box highlights the 'Additional Features' section. At the bottom, there are two steps: 'Step 1: Select Location & Plan' and 'Step 2: Configure Software & Deploy Instance'. A 'Deploy' button is visible in the bottom right.

All done, confirm the monthly price and Click Deploy.

This screenshot is identical to the one above, but with a red dashed box highlighting the 'Total Price' section in the 'Deploy Summary' on the right, which shows '\$5.00/mo (\$0.007/hr)'. The 'Deploy' button is also highlighted with a red dashed box.

At this stage, please refer to the video lectures on how to start the server hardening process.

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