



LINODE

CLOUD HOSTING

Himarsha R Jayanetti

CS531 Web Server Design

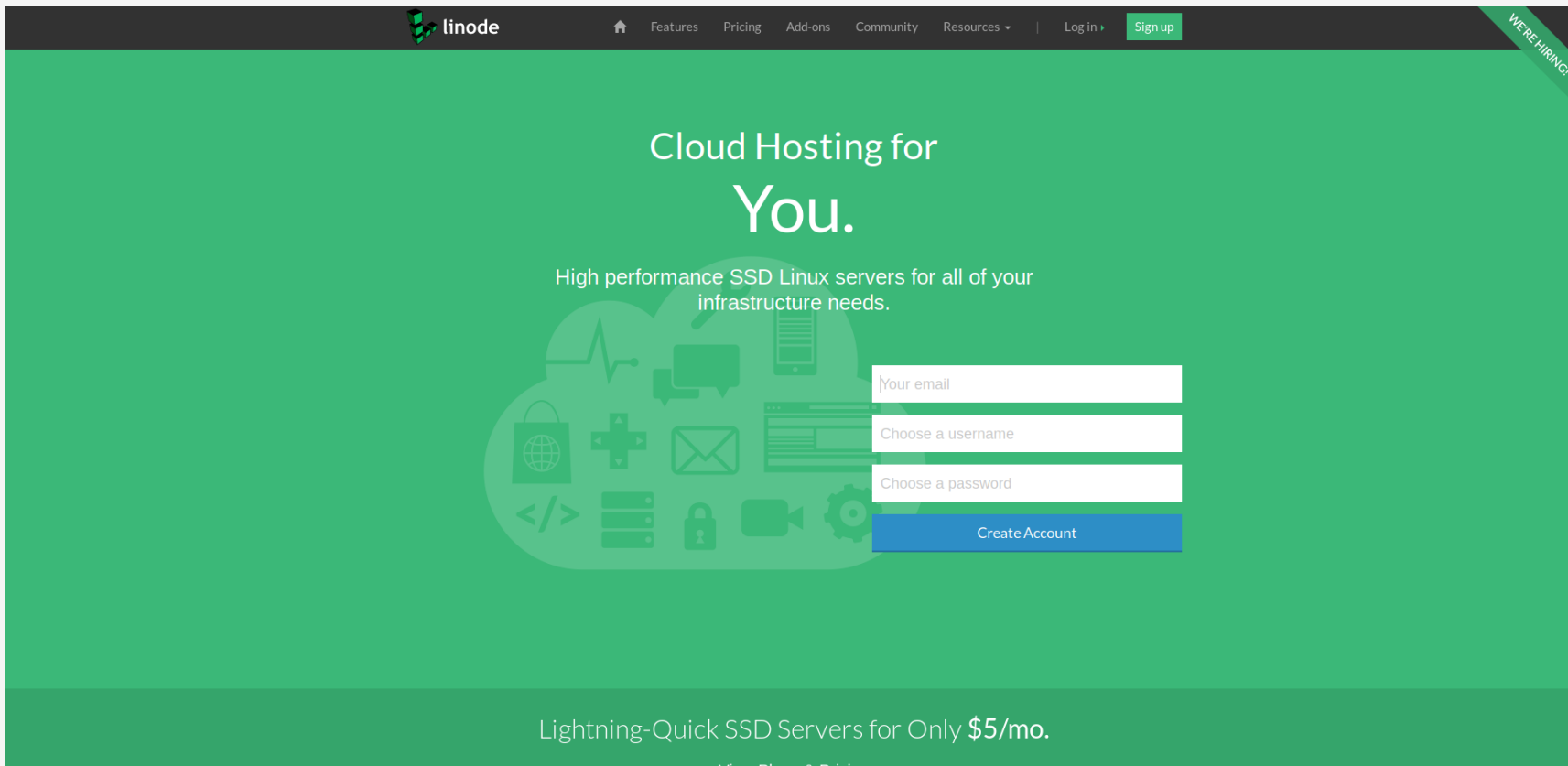
CS Department -Old Dominion University

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Signing Up for a new account with Linode..

- Create a new account at the [Sign Up page](https://login.linode.com/signup).
- Sign in and enter your billing and account information.

A screenshot of the Linode website's sign-up page. The page has a green background with a dark green header. The header contains the Linode logo, navigation links (Features, Pricing, Add-ons, Community, Resources), a 'Log in' link, and a 'Sign up' button. A 'WE'RE HIRING!' banner is in the top right corner. The main content area features the text 'Cloud Hosting for You.' and 'High performance SSD Linux servers for all of your infrastructure needs.' Below this is a circular graphic with various icons representing different services. To the right of the graphic is a sign-up form with three input fields: 'Your email', 'Choose a username', and 'Choose a password', followed by a blue 'Create Account' button. At the bottom, it says 'Lightning-Quick SSD Servers for Only \$5/mo.' and a link to 'View Plans & Pricing'.

Most accounts are activated instantly, but some require manual review prior to activation. If your account is not immediately activated, you will receive an email with additional instructions.

Link : <https://login.linode.com/signup>



Legal Stuff

Please select your country

United States ▼

[Customer Agreement](#)

☒ I accept and agree to Linode's Customer Agreement, which details my rights and responsibilities while using Linode products and services.

[Privacy Policy](#)

☒ I accept and agree to Linode's Privacy Policy, which details Linode's commitment to privacy and data security.

Create Account

Click to Create an Account



Billing

To complete your signup, please add a valid credit or debit card to serve as the default payment method for your account. To learn more about how billing works, [please see our guide](#).

CREDIT CARD INFORMATION:

All major credit cards accepted.

Cardholder Name

Himarsha R Jayanetti

Credit Card Number

Expiration Date

January

2019

CW

Promotion Code (Optional)

Referral Code (Optional)

341bcd262aab4a693c09a3bcdc9605d4eb1445b8

BILLING INFORMATION:

Fill in your credit
card details

Log In to your account...

- Log in to the [Cloud Manager](#) with the username and password you created when signing up.
- At the top of the page, click **Create** and select **Linode**.



Log In to the
account

A screenshot of the Linode login page. At the top, it says "Welcome Back" in green. Below that, a yellow bar contains the text "Please log in to continue." Further down, it asks "Need an Account?" with a link to "Sign up here." There are two input fields: "Username" with the value "jayanetti.hr@gmail.com" and "Password" with masked characters. Below the password field is a checkbox labeled "Trust this computer for 30 days" which is checked. A blue "Log in" button is at the bottom right. At the very bottom, it says "Forgot your username / password?" with links for each. A green arrow points from the "Log In to the account" text box to the "Log in" button.

Welcome Back

Please log in to continue.

Need an Account? [Sign up here.](#)

Username
jayanetti.hr@gmail.com

Password
.....

☒ Trust this computer for 30 days

Log in

Forgot your [username](#) / [password](#)?

Link - <https://login.linode.com/login>

You will be prompted to a welcome message..

The screenshot displays the Linode Cloud Manager dashboard. A central modal window titled "Welcome to the New Cloud Manager!" is prominently featured. The modal contains a message from Linode about new features and a "Let's go!" button. Below the modal, the dashboard layout is visible, including a sidebar with navigation links and a main content area with various sections like "Up Your Data and Keep it Safe", "Enrollment", "Mumbai Data Center - Coming Soon", "Kubernetes", and "2019 Fall Events".

linode

Create ▾

Search for Linodes, Volumes, NodeBalancers, Domains, Tags...

jhimarsha

Dashboard

Welcome to the New Cloud Manager!

We've added new features to help improve your experience and create a fresh new look. Help us build a better product for Linode customers like you. Share your feedback in the footer below.

Streamline Deployments
Deploy a Linode, NodeBalancers, Block Storage Volume, or Domain easily with step-by-step guidance.

Find Resources
Our new predictive search gives you quick access to support documentation and community posts.

Access Anywhere
With support for all major devices and screen sizes, it's easy to stay connected.

Let's go!

Go back to [Classic Manager](#).

Up Your Data and Keep it Safe

Enrollment
Setting, new Linodes will be automatically service.

Mumbai Data Center - Coming Soon
Linode is heading down under later this year west data center: Linode Sydney. This will be our side and comes on the heels of our recent global Mumbai. This is a significant milestone for us.

Kubernetes
Our team recently released a comprehensive five-ers discover and implement the Kubernetes system, often referred to as k8s. A Beginner's vers fundamental questions and introduces bernetes. The guide is supplemented by a explain new terminology while progressing

2019 Fall Events
Join us this Fall for more #LinodeOnTheRoad adventures. We'll be a busy bunch these next few months and look forward to meeting you all around the globe. MonktoberfestPortland, Maine | October 3-4 We're heading up to beautiful New England for our first event of the Fall. Monktoberfest is the only event of its kind that [...]

Creating your Linode server..

- 1) Choose the region where you would like your Linode to reside. If you're not sure which to select, see the [How to Choose a Data Center](#) guide. You can also generate [MTR reports](#) for a deeper look at the route path between you and a data center in each specific region.
- 2) Select a Linode plan.
- 3) Create a root password for your Linode in the **Root Password** field. This password must be provided when you log in to your Linode via SSH.
- 4) Click **Create**. You will be directed back to the *Linodes* page which will report the status of your Linode as it boots up.

Links - <https://www.linode.com/docs/platform/how-to-choose-a-data-center/>
- <https://www.linode.com/docs/networking/diagnostics/diagnosing-network-issues-with-mtr/>

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Dashboard

Linodes

Volumes

NodeBalancers

Domains

Longview

StackScripts

Images

Account

Get Help

Create ▾

Search for Linodes, Volumes, NodeBalancers, Domains, Tags...

Getting Started

Himarsha

CS531

Inbox (22) - jayanetti....

Inbox (22) - jayanetti....

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Create New Linode

DistributionsOne-ClickMy Images

Choose a Distribution

Images

Ubuntu 19.04

Region

Determine the best location for your Linode. Use our speedtest page to find the best region for your current location.

Select a region

Newark, NJ

Linode Plan

NanodeStandardDedicated CPUHigh MemoryGPU

Nanode 1GB

\$5/mo (\$0.0075/hr)

1 CPU, 25GB Storage, 1GB RAM

Linode Summary

Ubuntu

Ubuntu 19.04

US

Newark, NJ

Nanode 1GB

1 CPU, 25GB Storage, 1GB RAM

Linode Label

ubuntu-us-east

\$5.00/mo

Create

Create a Linode | Linode Manager - Mozilla Firefox

Linode, LLC (US)https://cloud.linode.com/linodes/create

Getting StartedHimarshaCS531Inbox (22) - jayanetti....Inbox (22) - jayanetti....

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Account

Get Help

Linode Label

ubuntu-us-east

Add Tags

Type to choose or create a tag.

Root Password

Strength: Good

Password must be at least 6 characters and contain at least two of the following character classes: uppercase letters, lowercase letters, numbers, and punctuation.

SSH Keys

UserSSH Keys

You don't have any SSH keys available.

Add an SSH Key

Optional Add-ons

Backups\$2.00 per month

Three backup slots are executed and rotated automatically: a daily backup, a 2-7 day old backup, and an 8-14 day old backup. Backups are priced according to the Linode plan selected above.

Private IP

Linode Summary

Ubuntu

Ubuntu 19.04

US

Newark, NJ

Nanode 1GB

1 CPU, 25GB Storage, 1GB RAM

Linode Label

ubuntu-us-east

\$5.00/mo

Create

API Reference

Provide Feedback

Create Linode

Find your Linode's IP Address..

- Your Linode has a unique IP address that identifies it to other devices and users on the internet.

Linode

Dashboard

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Images

Account

Get Help

Linodes / ubuntu-us-east

Launch Console Running

Summary Volumes **Networking** Resize Rescue Rebuild Backups Activity Settings Advanced

Access

SSH Access: ssh root@45.79.140.173

SSH via SSH: ssh -t jhimarshah@h-newark.linode.com ubuntu-us-east

DNS Resolvers (IPv4): 66.228.42.5 +6

DNS Resolvers (IPv6): 2600:3c03:5 +6

IPv4 Add Private IPv4 Add Public IPv4

Address	Default Gateway	Reverse DNS	Type
45.79.140.173	45.79.140.1	li1239-173.members.linode.com	Public

IPv6 Add IPv6

Address	Default Gateway	Reverse DNS	Type
2600:3c03:f03c:91ff:fe8f:6a56	fe80::1		SLAAC
fe80::f03c:91ff:fe8f:6a56	fe80::1		Link Local

Networking Actions

- + IP Transfer
- + IP Sharing

IP Address

- Click the **Linodes** menu item in the [Cloud Manager's](#) left hand navigation.
- Find your Linode, click on it's name and navigate to *Networking*.
- Your IPv4 and IPv6 addresses appear under the *IPv4* and *IPv6* sections.

Connect to Your Linode via SSH..

- Communicating with your Linode is usually done using the secure shell (SSH) protocol. SSH encrypts all of the data transferred between the client application on your computer and the Linode, including passwords and other sensitive information. There are SSH clients available for every operating system.
- **Linux:** You can use a terminal window, regardless of desktop environment or window manager.
- **macOS:** *Terminal.app* comes pre-installed and can be launched from Spotlight or Launchpad.
- **Windows:** There is no native SSH client but you can use a free and open source application called PUTTY.

Link - [*https://www.linode.com/docs/networking/ssh/using-ssh-on-windows/*](https://www.linode.com/docs/networking/ssh/using-ssh-on-windows/)

Log in to your server using SSH..

1. Enter the following into your terminal window or application. Replace the example IP address with your Linode's IP address:

```
ssh root@198.51.100.4
```

2. If this is the first time connecting to your Linode, you'll see the authenticity warning below. This is because your SSH client has never encountered the server's key fingerprint before. Type `yes` and press **Enter** to continue connecting.

```
The authenticity of host '198.51.100.4 (198.51.100.4)' can't be established.  
RSA key fingerprint is 11:eb:57:f3:a5:c3:e0:77:47:c4:15:3a:3c:df:6c:d2.  
Are you sure you want to continue connecting (yes/no)?
```

After you enter `yes`, the client confirms the addition:

```
Warning: Permanently added '198.51.100.4' (RSA) to the list of known hosts.
```

3. The login prompt appears for you to enter the password you created for the `root` user above.

```
root@198.51.100.4's password:
```

4. The SSH client initiates the connection and then the following prompt appears:

```
root@li123-456:~#
```

File Edit View Search Terminal Help

hjayanet@E-3102-15:~\$ ssh root@45.79.140.173

root@45.79.140.173's password:

Welcome to Ubuntu 19.04 (GNU/Linux 5.0.0-13-generic x86_64)

- * Documentation: <https://help.ubuntu.com>
- * Management: <https://landscape.canonical.com>
- * Support: <https://ubuntu.com/advantage>

System information as of Wed Sep 18 18:21:33 UTC 2019

System load:	0.0	Processes:	109
Usage of /:	7.6% of 24.06GB	Users logged in:	0
Memory usage:	15%	IP address for eth0:	45.79.140.173
Swap usage:	0%		

- * Congrats to the Kubernetes community on 1.16 beta 1! Now available in MicroK8s for evaluation and testing, with upgrades to RC and GA

snap info microk8s

0 updates can be installed immediately.
0 of these updates are security updates.

Last login: Wed Sep 18 17:00:16 2019 from 128.82.7.41

root@marshmallows:~#

Execute your echo server code..

```
root@marshmallows:~# nano marsh_server.py
root@marshmallows:~# ls
marsh_server.py
root@marshmallows:~# ls -lr
total 4
-rw-r--r-- 1 root root 457 Sep 18 18:32 marsh_server.py
root@marshmallows:~# chmod +x marsh_server.py
root@marshmallows:~# ls
marsh_server.py
root@marshmallows:~# ls -lr
ls: cannot access '-': No such file or directory
ls: cannot access 'lr': No such file or directory
root@marshmallows:~# ls -lr
total 4
-rwxr-xr-x 1 root root 457 Sep 18 18:32 marsh_server.py
root@marshmallows:~#
```

Testing your echo server..

1. Run the python file in the main terminal for your echo server

```
root@marshmallows: ~  
root@marshmallows:~# ./marsh_server.py  
Listening on 0.0.0.0:80 for HTTP connections  
□
```

2. Connect to the server via telnet from a new terminal

```
root@marshmallows: ~  
hjayanet@E-3102-15:~$ telnet 45.79.140.173 80  
Trying 45.79.140.173...  
Connected to 45.79.140.173.  
Escape character is '^]'.  
Hi  
Hi  
□
```

References

- <https://www.linode.com/docs/getting-started/>
- <https://www.linode.com/docs/networking/dns/common-dns-configurations/>

Thank you!

