Web Application Hosting in The 000Webhost Cloud Service

Presented by:

Akshay Kumar K   4PS19CS400

Notices

This document is provided for informational purposes only. It represents 000webhostcurrent product offerings and practices as of the date of issue of this document, which are subject to change without notice. Customers are responsible for making their own independent assessment of the information in this document and any use of 000webhost products or services, each of which is provided "as is" without warranty of any kind, whether express or implied. This document does not create any warranties, representations, contractual commitments, conditions or assurances from 000webhost, its affiliates, suppliers or licensors. The responsibilities and liabilities of 000webhost to its customers are controlled by 000webhost agreements, and this document is not part of, nor does it modify, any agreement between 000webhost and its customers.

Abstract

Highly available and scalable web hosting can be a complex and expensive proposition. Traditional scalable web architectures have not only needed to implement complex solutions to ensure high levels of reliability, but they have also required an accurate forecast of traffic to provide a high level of customer service. Dense peak traffic periods and wild swings in traffic patterns result in low utilization rates of expensive hardware.

This yields high operating costs to maintain idle hardware, and an inefficient use of capital for underused hardware.

000webhost provides a reliable, scalable, secure, and highly performing infrastructure for the most demanding web applications. This infrastructure matches IT costs with customer traffic patterns in real time.

000webhost

An Overview of Traditional Web Hosting

Scalable web hosting is a well-known problem space. Figure 1 depicts a traditional web hosting architecture that implements a common three-tier web application model. In this model, the architecture is separated into presentation, application, and persistence layers. Scalability is provided by adding hosts at these layers. The architecture also has built-in performance, failover, and availability features. The traditional web hosting architecture is easily ported to the Cloud with only a few modifications.
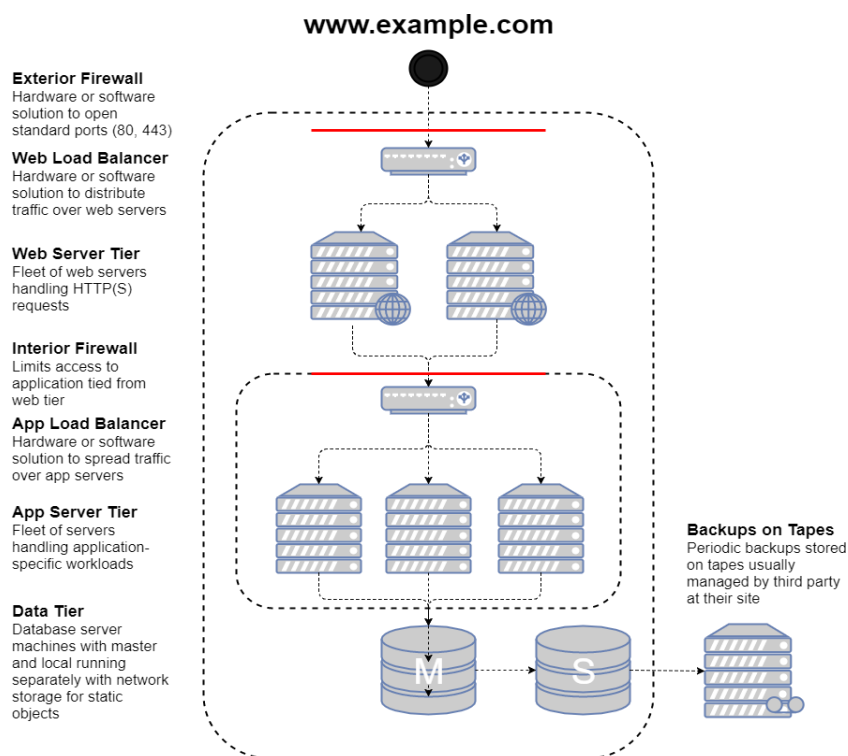
www.example.com

Exterior Firewall
Hardware or software
solution to open
standard ports (80, 443)

Web Load Balancer
Hardware or software
solution to distribute
traffic over web servers

Web Server Tier
Fleet of web servers
handling HTTP(S)
requests

Interior Firewall
Limits access to
application tied from
web tier

App Load Balancer
Hardware or software
solution to spread traffic
over app servers

App Server Tier
Fleet of servers
handling application-
specific workloads

Data Tier
Database server
machines with master
and local running
separately with network
storage for static
objects

Backups on Tapes
Periodic backups stored
on tapes usually
managed by third party
at their site

Figure 1. A traditional web hosting architecture

Web Application Hosting in the Cloud Using 000webhost

The first question that you should ask concerns the value of moving a classic web application hosting solution into the 000webhost Cloud. If you decide that the cloud is right for you, you'll need a suitable architecture. This section helps you evaluate an 000webhost Cloud solution. It compares deploying your web application in the cloud to an on-premises deployment, presents an 000webhost Cloud architecture for hosting your application, and discusses the key components of this solution

What Is Hosting and How Does Web Hosting Work?

In short, web hosting is a service that stores website's data on the internet. Think of it as an apartment renter – you pay a monthly (or yearly) fee, to live and store your things in their property.

This is exactly what a hosting provider does. They rent out a server for people to store and run their website data in.

Depending on your needs and technical knowledge, you can choose between a couple of different types of hosting.

000webhost

Different Types of Hosting

Web hosting companies typically offer several hosting plans such as shared hosting, VPS hosting, dedicated server hosting, and cloud hosting.

Shared Hosting

Shared hosting refers to a setup where many sites are all hosted together on the same server. This hosting plan is best for beginners and those, who don't need a lot of resources.

Pros:

    The resources are split among the clients, this helps keep costs low

    It allows users to personally maintain their site

Cons:

    Traffic spikes can disrupt every site hosted in that server

    You don't get the freedom to fine-tune various settings as you would with your own server

VPS Hosting

A Virtual Private Server (VPS) simulates multiple individual servers partitioned on one central server. It gives you more control and power, however, to manage VPS hosting, you need advanced knowledge.

Pros:

    Dedicated amount of resources per user

Cons:

    Hard to manage

    No support

    Steeper price tag

000webhost

Dedicated Server

This plan is when you rent out the entire server for yourself. It is like owning a house. Dedicated Servers are best for business' sites that require high performance and loads of resources.

Pros:

The highest level of resources

An unparalleled degree of freedom

Cons:

The most expensive plan for web hosting

Requires a lot of technical knowledge

Cloud Hosting

Cloud hosting is a team of servers working together to provide hosting. It is the best combination of shared and VPS hosting plans.

Pros:

Allows multiple computers to handle high traffic websites

Cheaper than a dedicated server

Cons:

Usually doesn't have access to the root directory

The configuration file (**php.ini**) is not available

000webhost

How Much Does It Cost to Host a Website?

Different hosting providers have different costs for their plans. However, if you want to host a website for free – we have your back!

Here at 000webhost you can host a website free of charge!

Our free services are perfect for beginners and those, who don't have a big budget. What is more, we will provide you with PHP, MySQL, and control panel with no ads!

The only drawback of free hosting is the lack of support and resources. However, if you feel like you need more functionality for a low price – our sister company Hostinger will be the best choice.

How to Set up Free Hosting with 000webhost?

Head to 000webhost.com, and click that **free sign up** button.

You can sign up using Facebook and Google Plus, or you can sign up using your email.

Now go to your email account and confirm the link that we've sent.

Once verified, you can start creating a website.
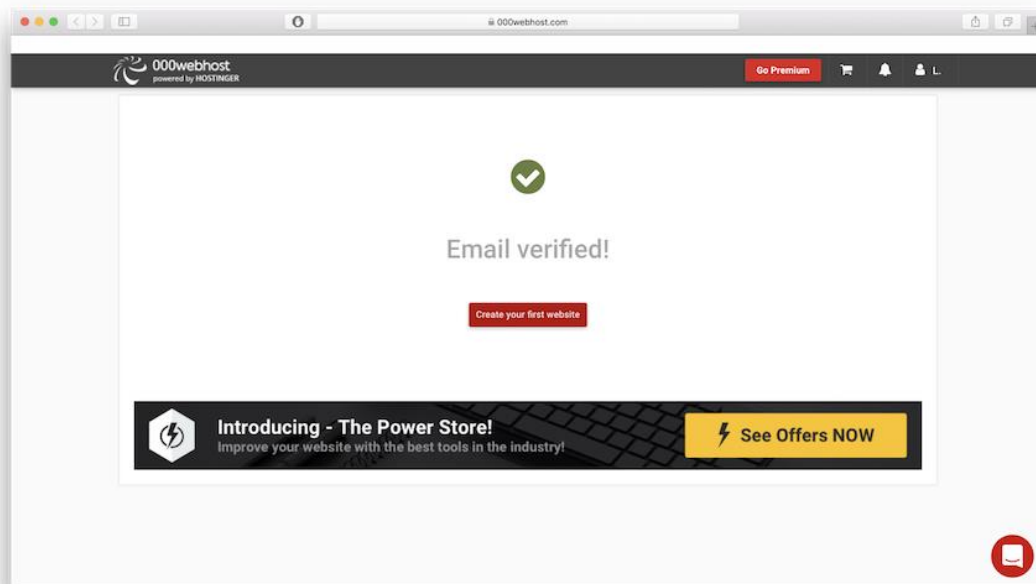
When you click the create button, there's a prompt asking why you sign up with us. Choose your reason

After that, you'll get a form to fill the website's name and password. This step will add the website to your 000webhost sites list.

New Website

Website Name (optional)

devsites

Password

....

☐ Show password   GENERATE ANOTHER PASSWORD

Create

There are three options available to build your website: using site builder, WordPress, or uploading a website that you've developed. In this article, we'll create a website using WordPress.

Build a Website Easily

Create a stunning website with our Easy Website Builder & no technical knowledge!

BUILD NOW

Build WordPress Website

Create powerful & beautiful website or blog using WordPress web software.

INSTALL NOW

Upload Own Website

Upload your own prebuilt website or files with our interactive web file manager.

UPLOAD NOW

Click **install now**, and you'll get another form to create the webmaster login. When you finished, click the **install** button.
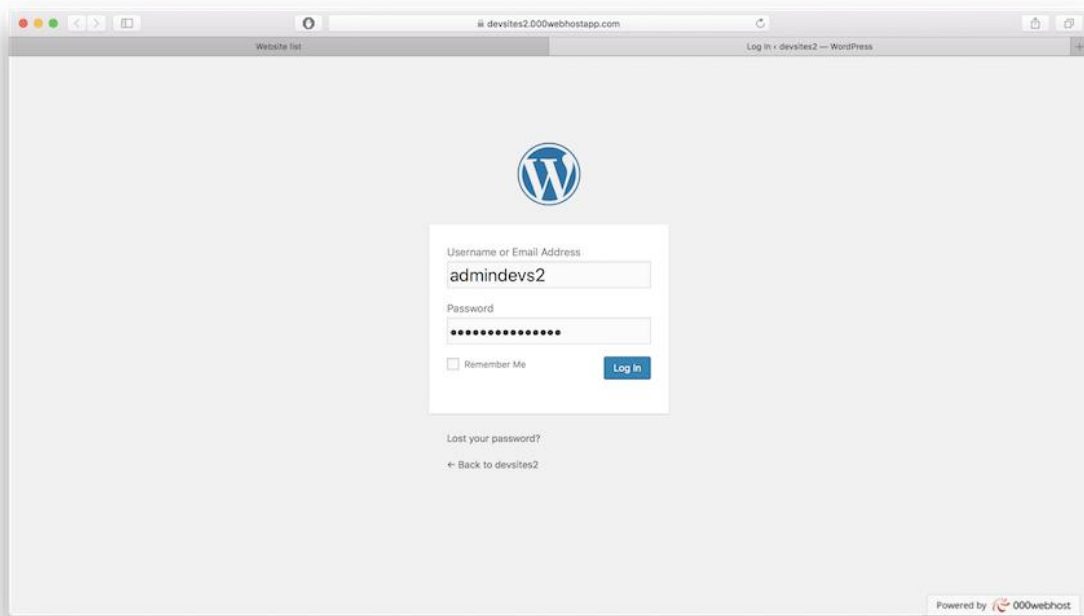

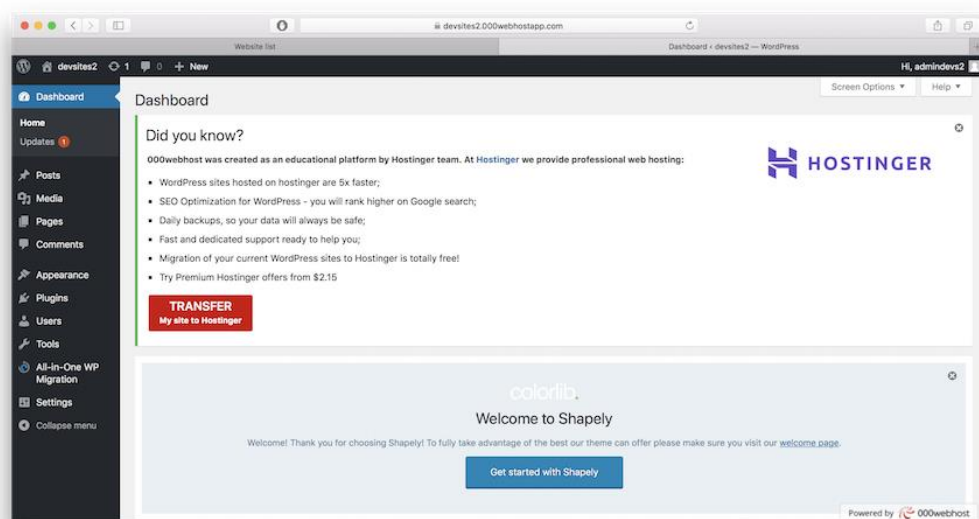After that, we'll install the WordPress engine for you.
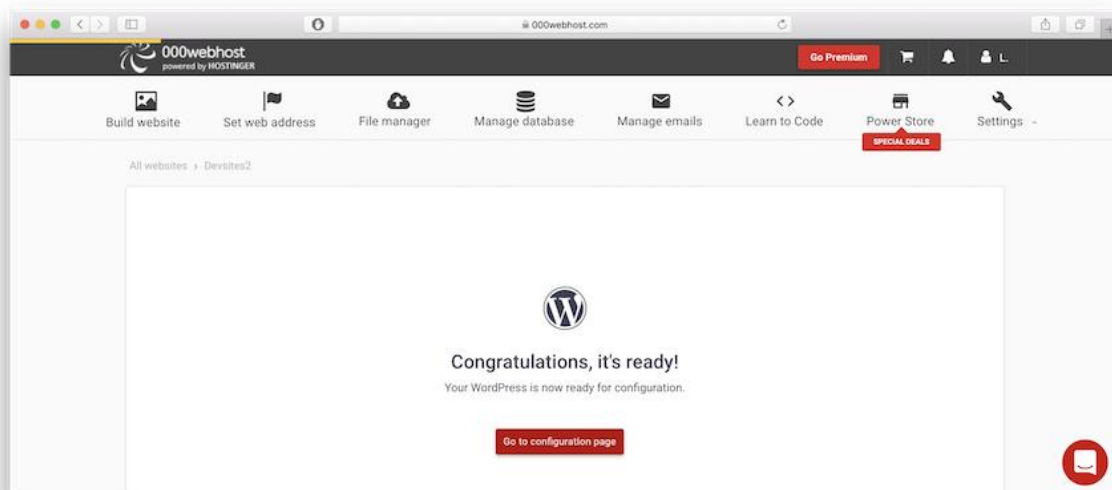
Once completed, you can go to your website admin dashboard by clicking **go to the configuration page** button. Alternatively, you can also add **/wp-login.php** slug at the end of your website URL.

www.yourdomain.com/wp-login.php

You can now log in to your WordPress dashboard.

There you go, you're officially hosting a WordPress site for free!

When you need more resources for your site and visitors, know that Hosting is just one click away.

That's a wrap. Now you know that it's possible to host a website for free. You can use it to explore and learn more about web development, blogging, ecommerce, etc.

There are no strings attached, though it comes with some limitation. It's a free service, so you're basically on your own should technical issue arises.

Free Hosting Features in 000webhost.

⚙ FREE WEB HOSTING	SIGN UP FOR FREE ➔
Price or any fees?	FREE!
Disk Space	300 MB
Bandwidth	3000 MB = 3 GB!
Websites allowed	1
Control Panel	FREE!
Your own ads allowed?	✔
Free domain hosting	✔
WordPress hosting	✔

000webhost

⚙ PACKAGE DETAILS

Free Website Builder	✔
WordPress Autoinstaller	✔
Almost Unrestricted PHP Support	✔
MySQL Databases	✔
Instant Backups	✔
FTP Support	✔
Web File Manager	✔
99% Uptime	✔
Instant Activation	✔

⚙ SUPPORTED FEATURES

PHP and MySQL	✔
Cron Jobs	✔
Curl	✔
GD	✔

⚙ CONTROL PANEL FEATURES

Latest Cpanel	✔
Free Website Builder with 100s of free web templates	✔
WordPress Autoinstaller	✔
Getting Started Wizard	✔
Multi Language Support	✔
Hotlink Protection	✔
IP Deny Manager	✔
Redirect URL	✔
Password Protected Directories	✔
Web Based File Manager	✔
phpMyAdmin	✔

000webhost

Free Web Hosting FAQ

1.What is free web hosting? How is it different from paid hosting?

The main and obvious difference is the cost. Although being a free service it does come with certain limitations.

Free hosting allows you to host a limited number of website and comes with disk space and bandwidth cap. This is put in place to make sure that everyone can have a fair chance at the service. Free hosting is the perfect place to learn. It allows you to experiment, code and build without an investment.

Paid hosting services typically have more functionality, have added features and much larger data and bandwidth caps. You get an overall more professional and flexible experience.

2. How to upload files in free web hosting?

There are two main ways of uploading files to your free web hosting service:

1. The first option - using the browser-based file manager. This tool allows you to navigate, upload and delete files on your web server. You can access this feature through your control panel.

000webhost

2. The second option is using FTP. FTP stands for File Transfer Protocol. These services allow you to conveniently manage your files in a similar way to a file manager.

3.How long will my web hosting stay free?

000webhost was, is, and always will be a completely FREE platform! To use our services, you don't even need to attach any credit card or other payment information. Simply fill in the sign up form and you are ready to conquer the internet!

4.Will I get a free domain name?

All free hosting package users are eligible to receive a free subdomain, which comes in the form of

example.000webhostapp.com.

However, if you wish to use a top-level domain, the option is available. You may use an existing domain from another registrar and park it on top of your free web hosting account. Alternatively, you may register a top-level domain with us and use it as well.

5. What can I do with free web hosting?

The variety of things that you can do with free web hosting is immense. At the very core, you may use it to create a website about anything, starting with:

000webhost

- WordPress blogs

- Review sites

- Personal websites

- Small businesses

- School & university projects

- Small eCommerce stores

Free web hosting is also an amazing platform to start and learn coding, as it supports the most popular programming languages such as PHP, MySQL, HTML, JavaScript, CSS and more!

6. Is 000webhost secure?

All 000webhost servers use advanced firewalls and include DDoS protection. A dedicated admin team also monitors the server around the clock. This ensures that your website is up and running with the least amount of possible interferences or issues.

However, the security of a website usually depends on the software that it uses and the vulnerabilities that exist within it. That being said, it's important to keep everything updated and to use tools from trusted providers only.

000webhost

7. What can I do if I need more resources?

If you outgrow the limits of free web hosting and need something more powerful, we are ready to offer you a special upgrade to premium web hosting. It includes a seamless transfer, 24/7 live support, more resources, extra features, and a lot more!
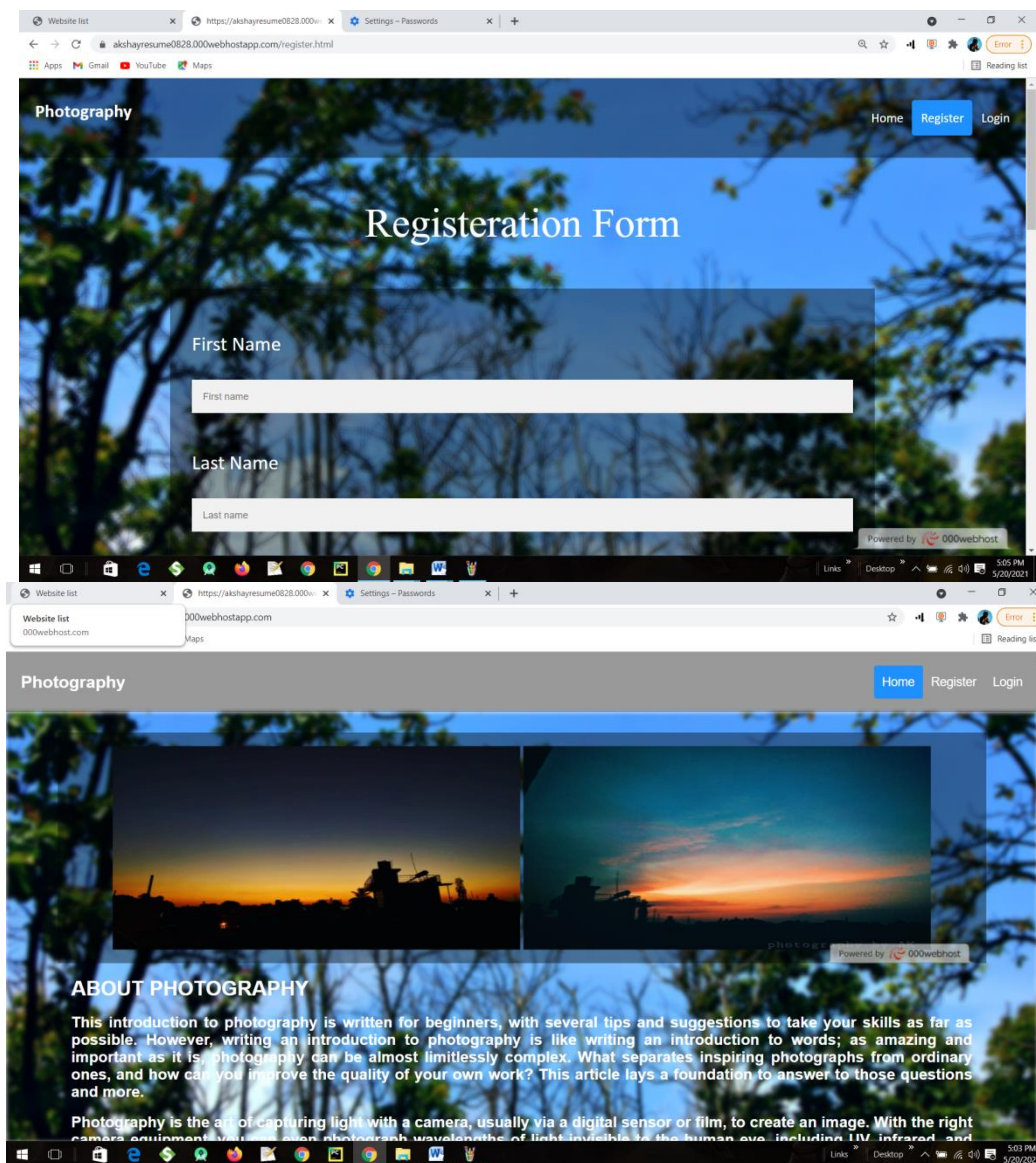
8. How many free websites can I have?

A free web hosting account can hold up to one active websites at a time. Both will have their own dedicated resources, separate FTP details, and can use any tool provided within the control panel.
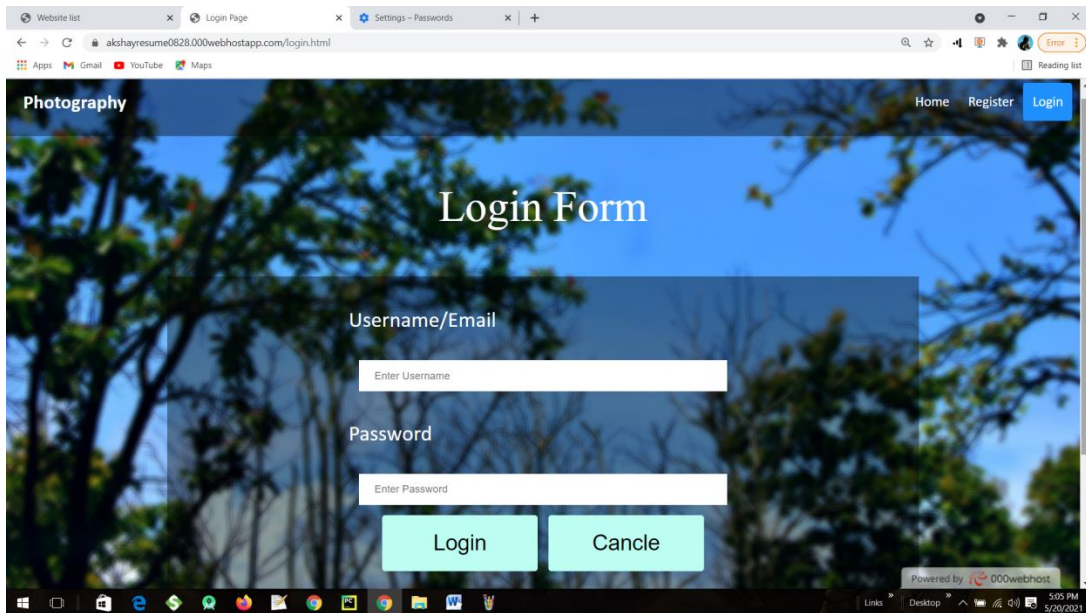
Demo Project

Link:

https://akshayresume0828.000webhostapp.com

Snaps of Demo Website

Conclusion

There are numerous architectural and conceptual considerations when you are contemplating migrating your web application to the 000webhost Cloud. The benefits of having a cost-effective, highly scalable, and fault-tolerant infrastructure that grows with your business for outstrips the efforts of migrating to the 000webhost Cloud.

000webhost