

Static Site Generators and AWS

are they a match made in heaven?



Gatsby.js & AWS

Static Website & AWS

How we can using Static Website Generators (in this case Gatsby.js) to host sites such as landing pages, marketing or event pages right through to CMS, blogs and ecommerce websites on S3.

Who am I

And what makes me think I'm worth listening to?

AWS Cloud Consultant – Kloud (A Telstra Company)

5 AWS Certifications

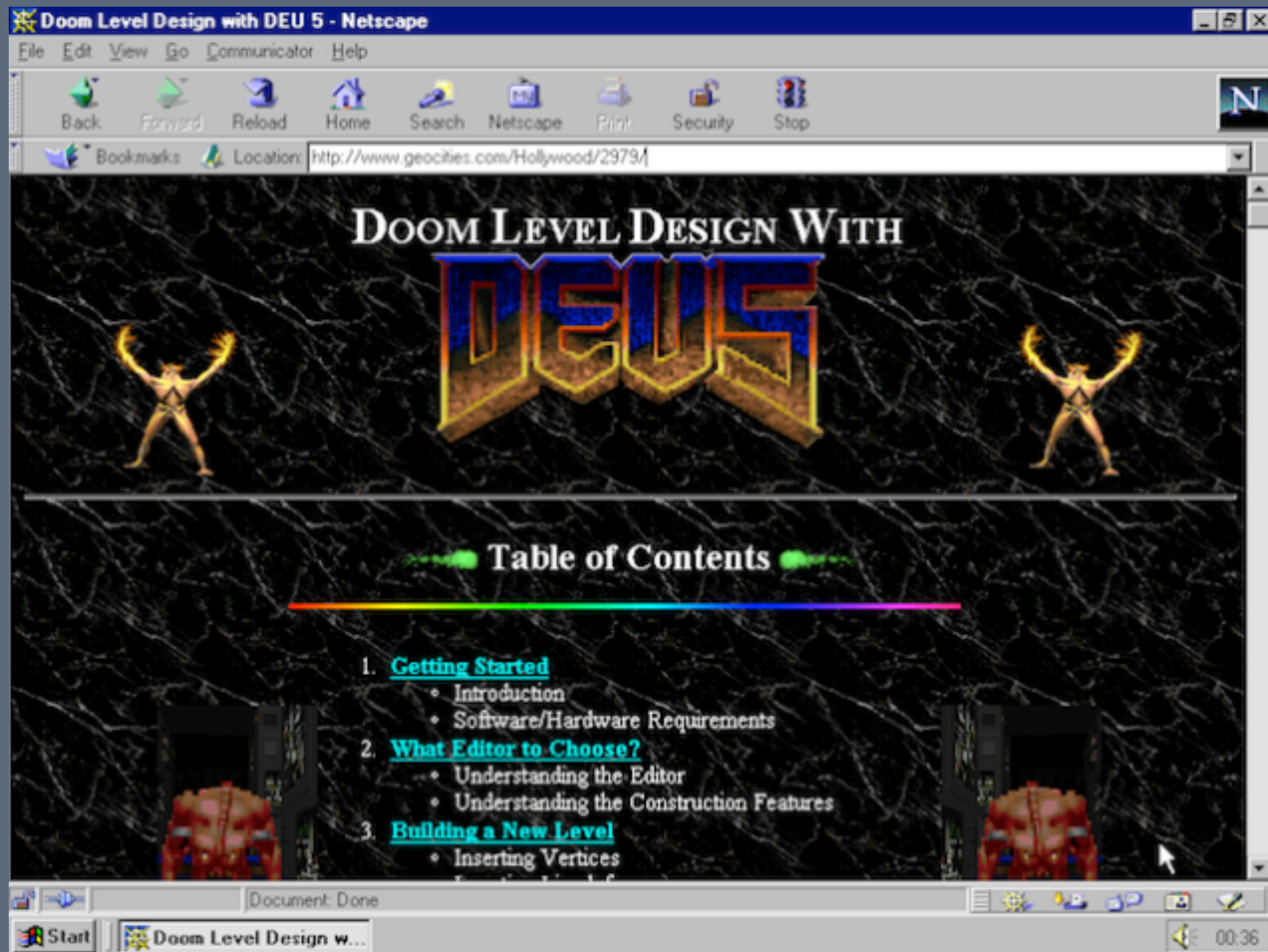
I've been working on AWS since 2012

AWS APN Ambassador for 2 years



TED, says good presentations
require a **story**

WHO CARES ABOUT STATIC WEBSITES?



Geocities isn't cool any more, so why static sites?

Modern websites require interactivity, dynamic content and integration with other systems and services. Is this really possible in the world of static websites?

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 **React**

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v16.8.3 |  Languages | [GitHub](#) 

React

A JavaScript library for building user interfaces

[Get Started](#) | [Take the Tutorial >](#)

Declarative

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Declarative views make your code more predictable and easier to debug.

Component-Based

Build encapsulated components that manage their own state, then compose them to make complex UIs.

Since component logic is written in JavaScript instead of templates, you can easily pass rich data through your app and keep state out of the DOM.

Learn Once, Write Anywhere

We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

React can also render on the server using Node and power mobile apps using [React Native](#).

A Simple Component

React components implement a `render()` method that takes input data and returns what to display. This example uses an XML-like syntax called JSX. Input data that is passed into the component can be accessed by `render()` via `this.props`.

JSX is optional and not required to use

LIVE JSX EDITOR ☒ JSX?

```
class HelloMessage extends React.Component {
  render() {
    return (
      <div>
        Hello {this.props.name}
      </div>
    );
  }
}
```

ReactDOM.render(

RESULT

Hello Taylor

Benefits of Static Websites

Your great subtitle in this line



Security

No Operating System
Applications to patch or be
attacked



Reliability

You don't have
servers/applications/OS
that can break. It's all AWS
PaaS



Speed

The absence of
middleware/database
means it's fast



Scalability

No need to worry about
auto-scaling groups,
CPU/RAM usage etc.



Price


S3 is cheap compared to
compute costs

What is Gatsby

Modern web tech without the headache

Enjoy the power of the latest web technologies – React.js , Webpack , modern JavaScript and CSS and more — all set up and waiting for you to start building.

Bring your own data

Gatsby's rich data plugin ecosystem lets you build sites with the data you want — from one or many sources: Pull data from headless CMSs, SaaS services, APIs, databases, your file system, and more directly into your pages using GraphQL .

Scale to the entire internet

Gatsby.js is Internet Scale. Forget complicated deploys with databases and servers and their expensive, time-consuming setup costs, maintenance, and scaling fears. Gatsby.js builds your site as “static” files which can be deployed easily on dozens of services.

Future-proof your website

Do not build a website with last decade's tech. The future of the web is mobile, JavaScript and APIs—the **JAMstack**. Every website is a web app and every web app is a website. Gatsby.js is the universal JavaScript framework you've been waiting for.

Static Progressive Web Apps

Gatsby.js is a static PWA (Progressive Web App) generator. You get code and data splitting out-of-the-box. Gatsby loads only the critical HTML, CSS, data, and JavaScript so your site loads as fast as possible. Once loaded, Gatsby prefetches resources for other pages so clicking around the site feels incredibly fast.

Speed past the competition

Gatsby.js builds the fastest possible website. Instead of waiting to generate pages when requested, pre-build pages and lift them into a global cloud of servers — ready to be delivered instantly to your users wherever they are.