

**Webinar en Tecnología Carrera**



# Head Start To Web Servers & Deployment



**DIPAN ROY**



# Webinar Outline

AND SOME HANDS ON TOO

Terminologies & Prerequisites

Introduction to Web Servers

Various Tech Stacks and Use Cases

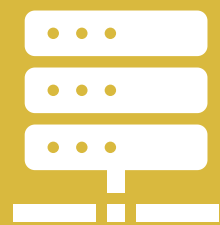
What is Deployment?

Deploying a Chat Application on a VPS

Domain, Sub Domains & Routing

Virtual Private Servers or Cloud Platforms

Deploy your App for Free





“One of my most productive  
days was throwing away  
1000 lines of code.”

KEN THOMPSON





# Some Basics

## HOW TO GET STARTED

When you develop something with a motive of taking it beyond just a Project Level, you need to keep in mind various points. Starting from the design, development to scalability, development, etc.





[bit.ly/DCK3003](https://bit.ly/DCK3003)

REPOSITORY FOR TODAY'S WEBINAR





# Web/App Servers & Full Stack Development

SERVER OR SERVERLESS ?

Industry 4.0 is moving towards Serverless Arch.

FULL STACK DEVELOPMENT

Basically Design, Logic & State.

DO YOU NEED IT ALL ?

The Various Use Cases and Technology Stacks.

# TECHNOLOGY STACKS

WHAT IS IT ? AND WHY IS IT IMPORTANT?

A Tech Stack Consists of some or all of the following –

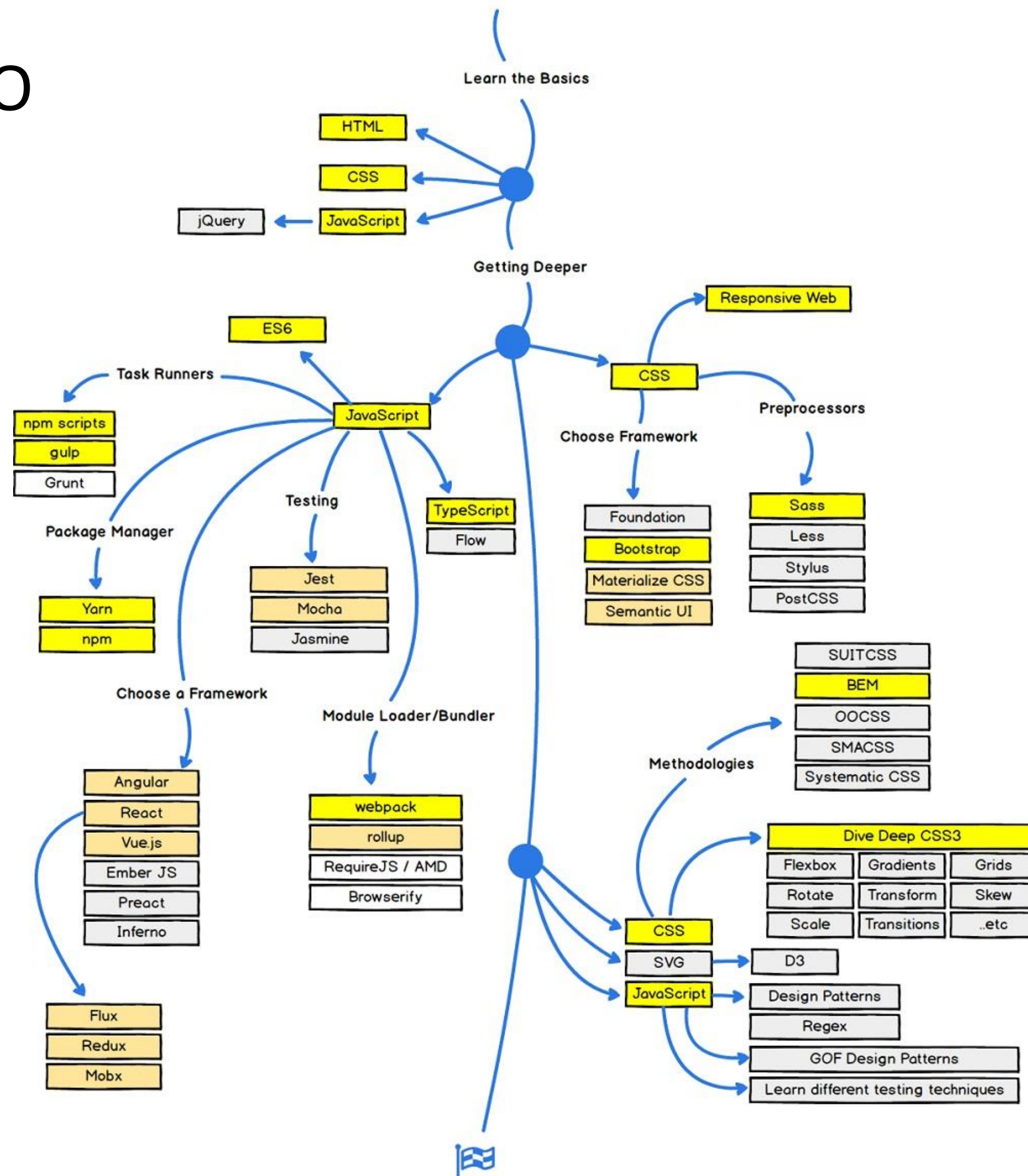
- Front End, Back End or API, Database, Block Storage and Hosting/Server.

How to Choose One ?

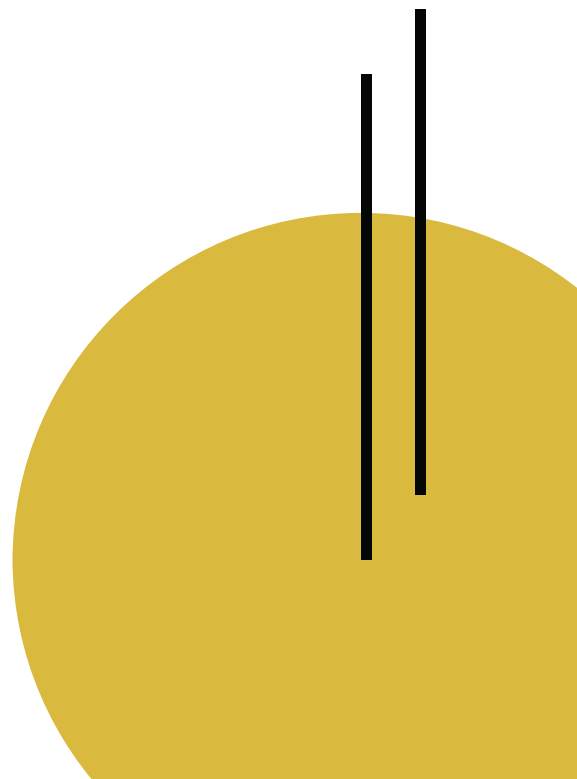
- Type of Web Application (Simple, Mid-Level or Complex)
- Scalability (Is the Scalability Vertical or Horizontal ?)
- Security & Cost Effectivity
- Time to Market (Based on Type of Application, Business Model, etc.)



# WHAT GOES INTO THE FRONT-END

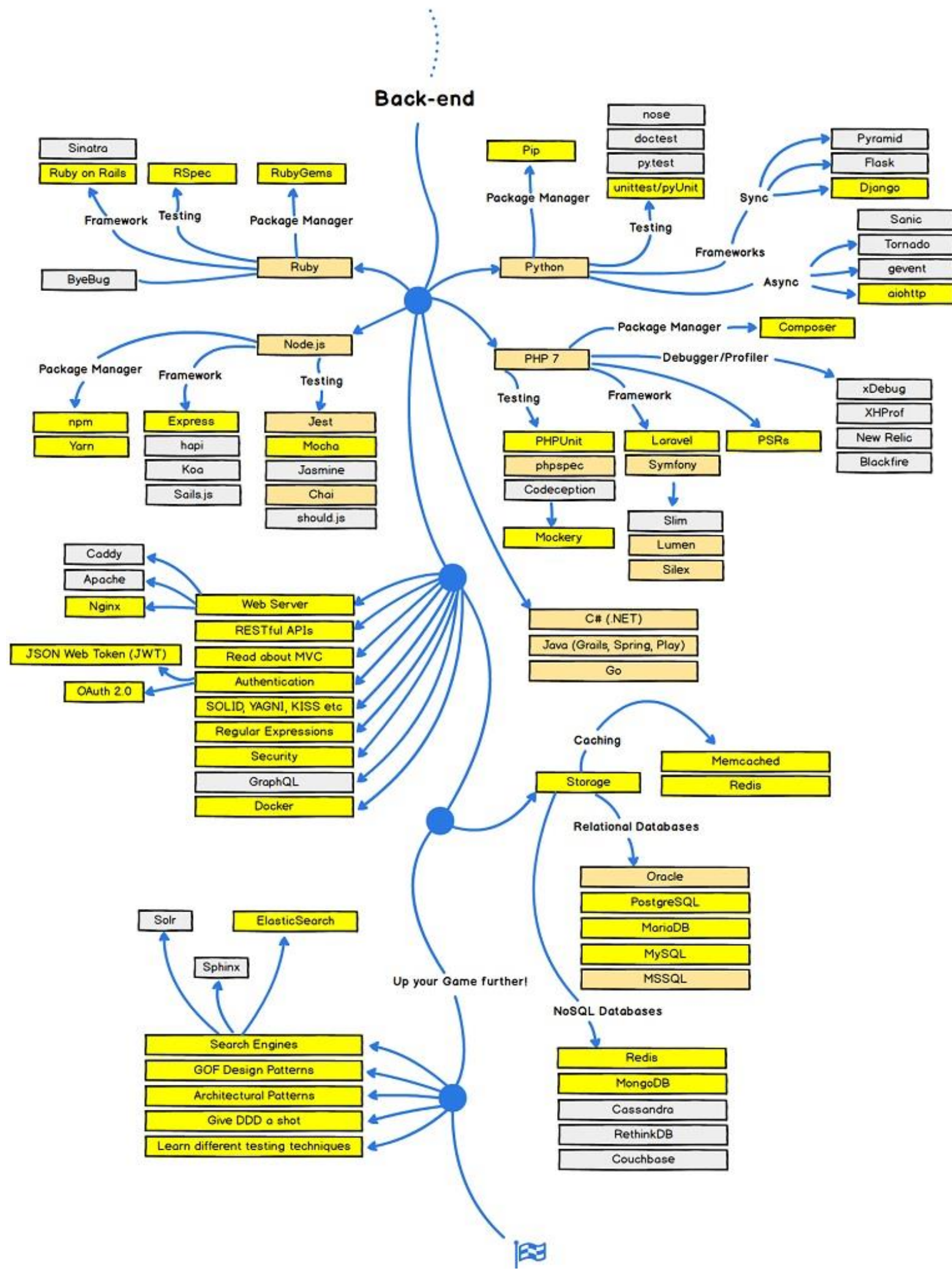


Source: Kamranahmedse  
<https://github.com/kamranahmedse>





# WHAT GOES INTO THE BACK-END



Source: Kamranahmedse  
<https://github.com/kamranahmedse>

# TECHNOLOGY STACKS

SOME OF THE MOST POPULAR OPTIONS



LAMP STACK



MEAN/MERN STACK



DJANGO

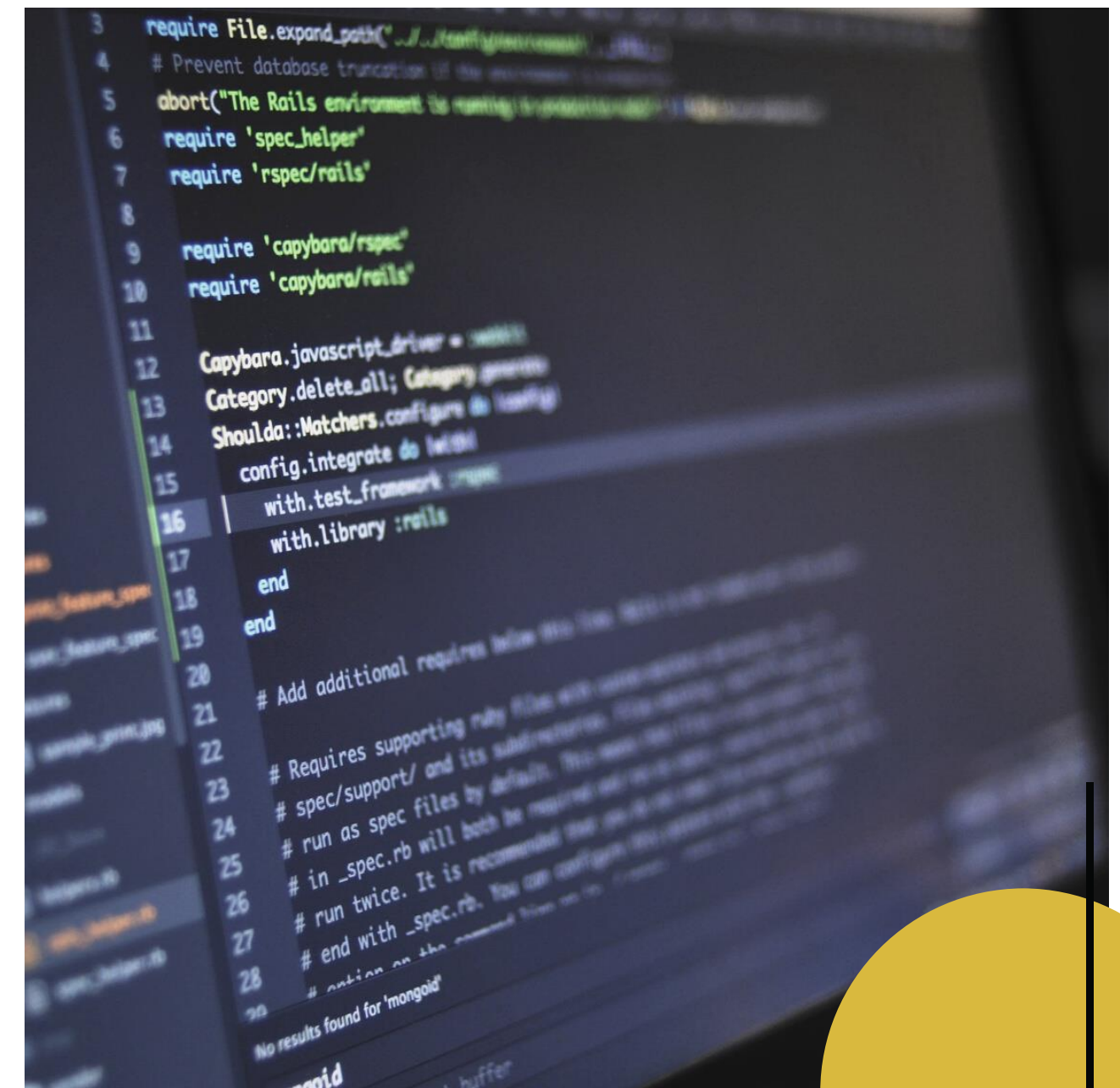


# Deployment

The Process of moving your code from your local development environment to a public server so as to allow people access it from anywhere.

## LOCALHOST REVISITED

Your Local Development Environment





# Deployment Checklist



GET YOUR FRONTEND, API &  
DATABASE STRUCTURE READY



COMPRESS OR GIT THEM



Choose your Server  
Architecture



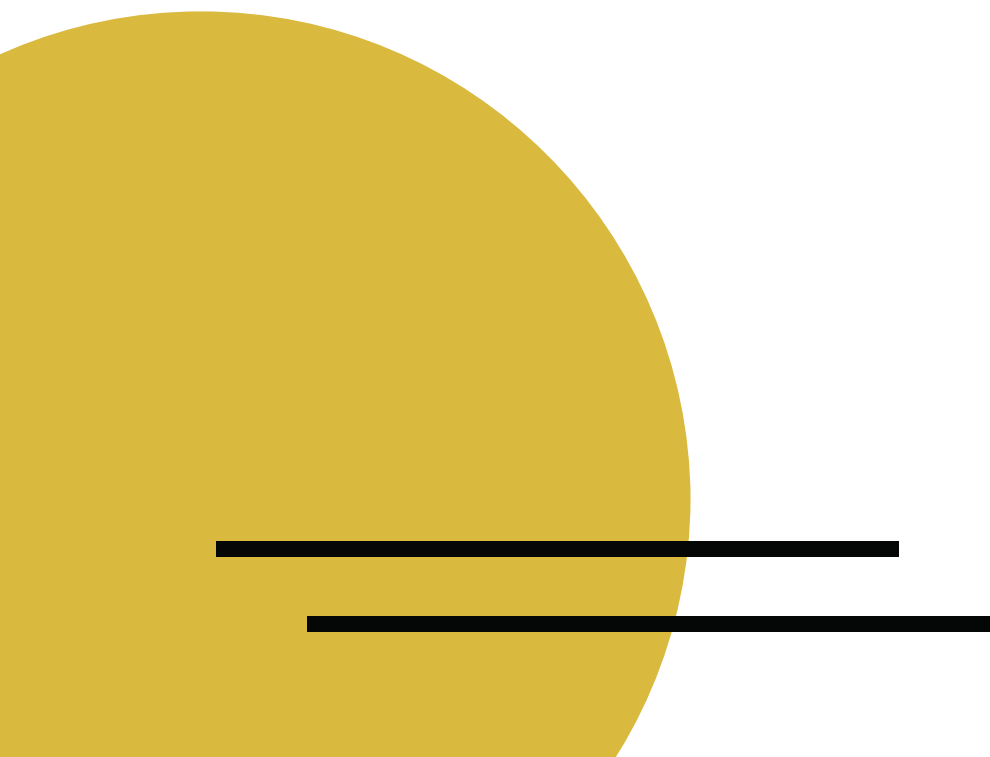
Build or Compile the Code and  
Give it a Test Run



Create Scripts to Autorun,  
Restart & Log Errors.

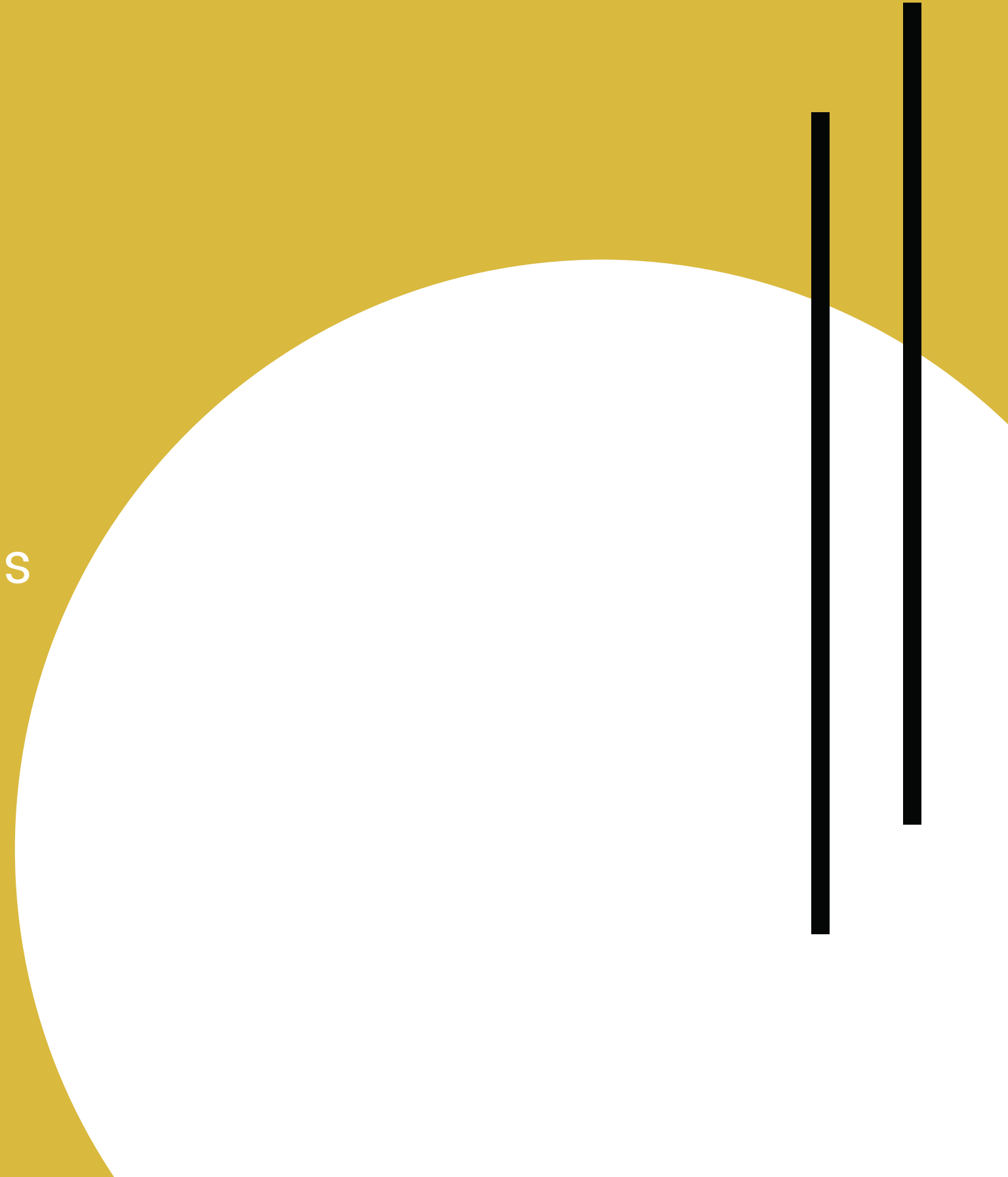


Map the Routes, Domain, etc.



# Let's Deploy an App

HANDS ON TIME – Virtual Private Servers



# Configuring Web Servers

## NGINX vs APACHE

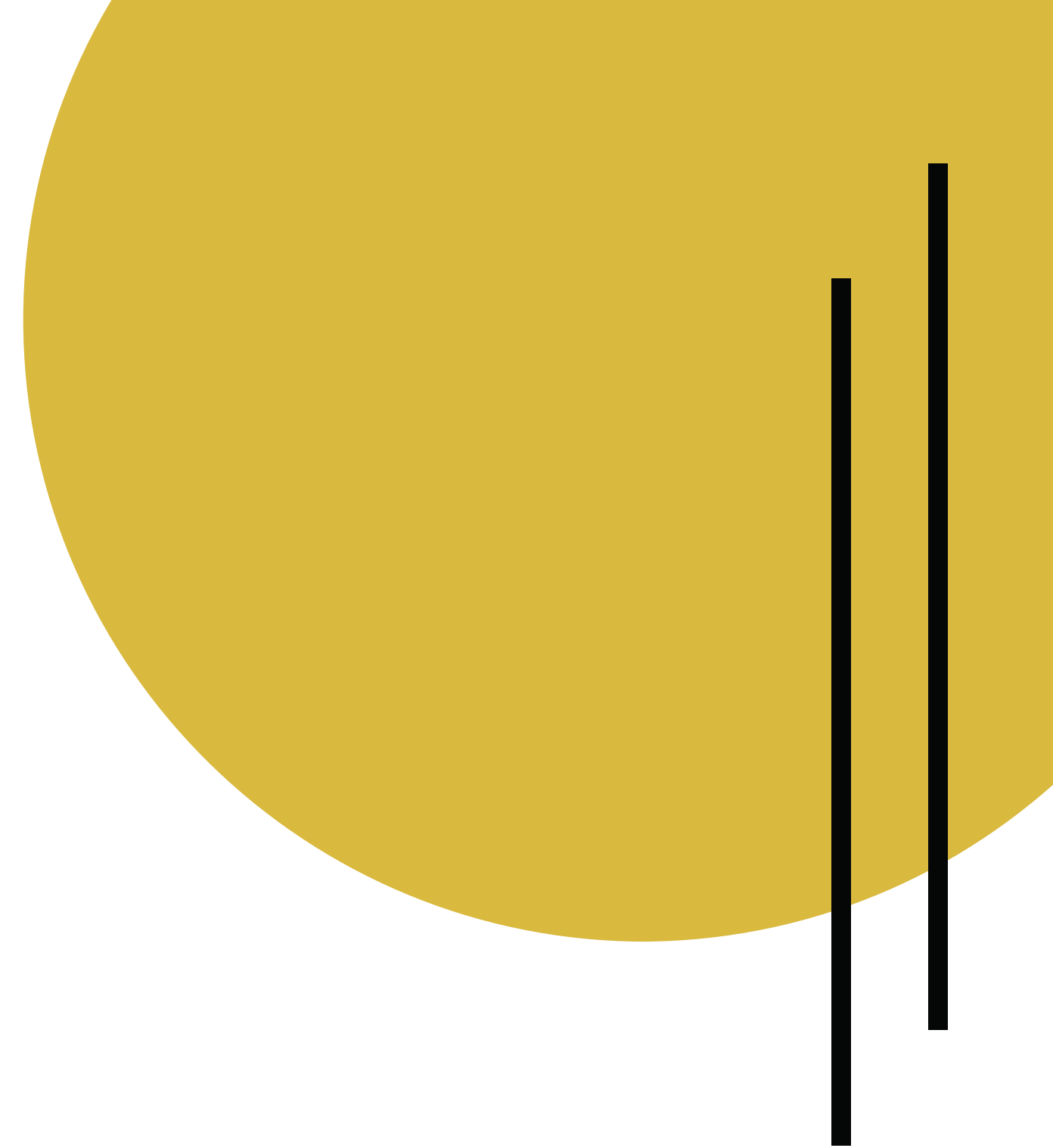
Event Driven vs Process Driven.

## ROUTING & VIRTUAL HOSTS

To multi-purpose servers.

## AUTO-RESTART & LOGGING

So that your site never goes down.





# DOMAINS

SUBDOMAINS & ROUTING – LETS SEE IN ACTION



FREE TIER

CLOUD PLATFORMS

PAID VPS

COMPLETELY CUSTOMIZED

WHICH ONE & WHEN





# Host Your App

## For Free 🌟😊

### FOUR SIMPLE STEPS

#### LOCALLY BUILD AND TEST

Make sure that your app deploys well locally.

#### BACKEND -> HEROKU

Get your API up and Running in minutes.

#### FRONTEND -> NETLIFY

Pre-Final Step, but takes less than a minute.

#### FINALLY A DOMAIN

Either buy it or search for free domain providers.



# WHATS NEXT?

## HOSTING MULTIPLE APPS

Reuse the same server for multiple websites.

## CREATING V-HOSTS

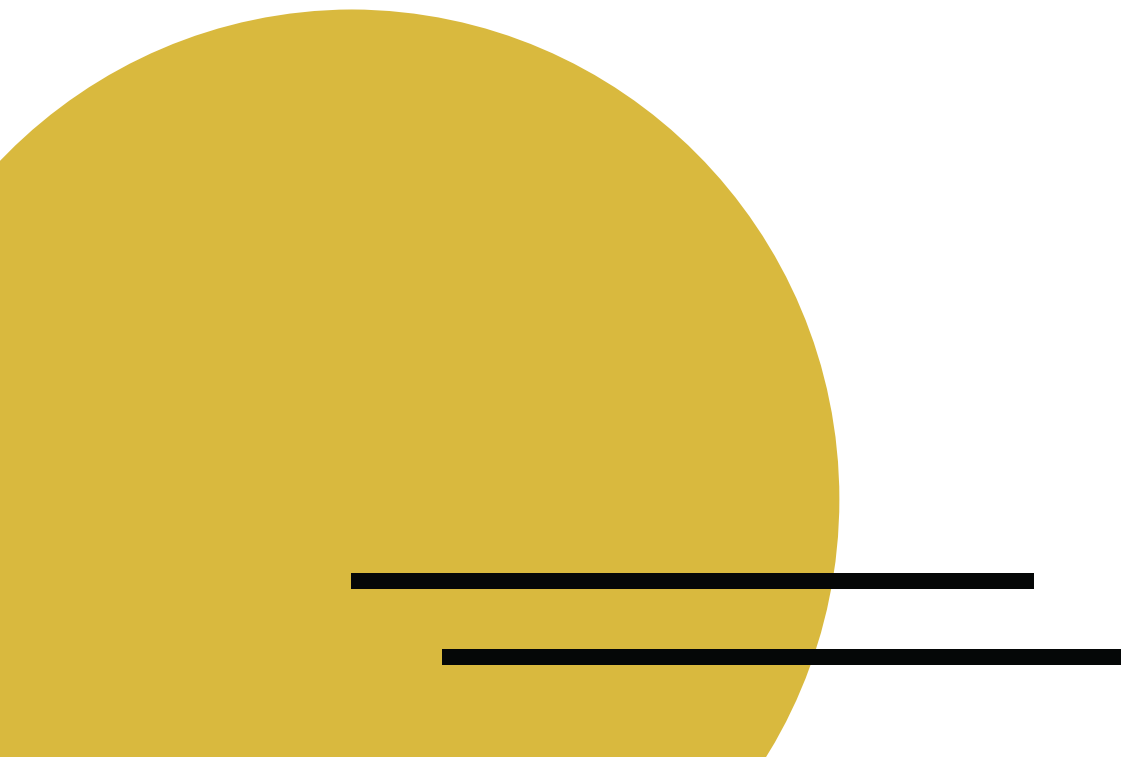
Mapping directories & sub-domains.

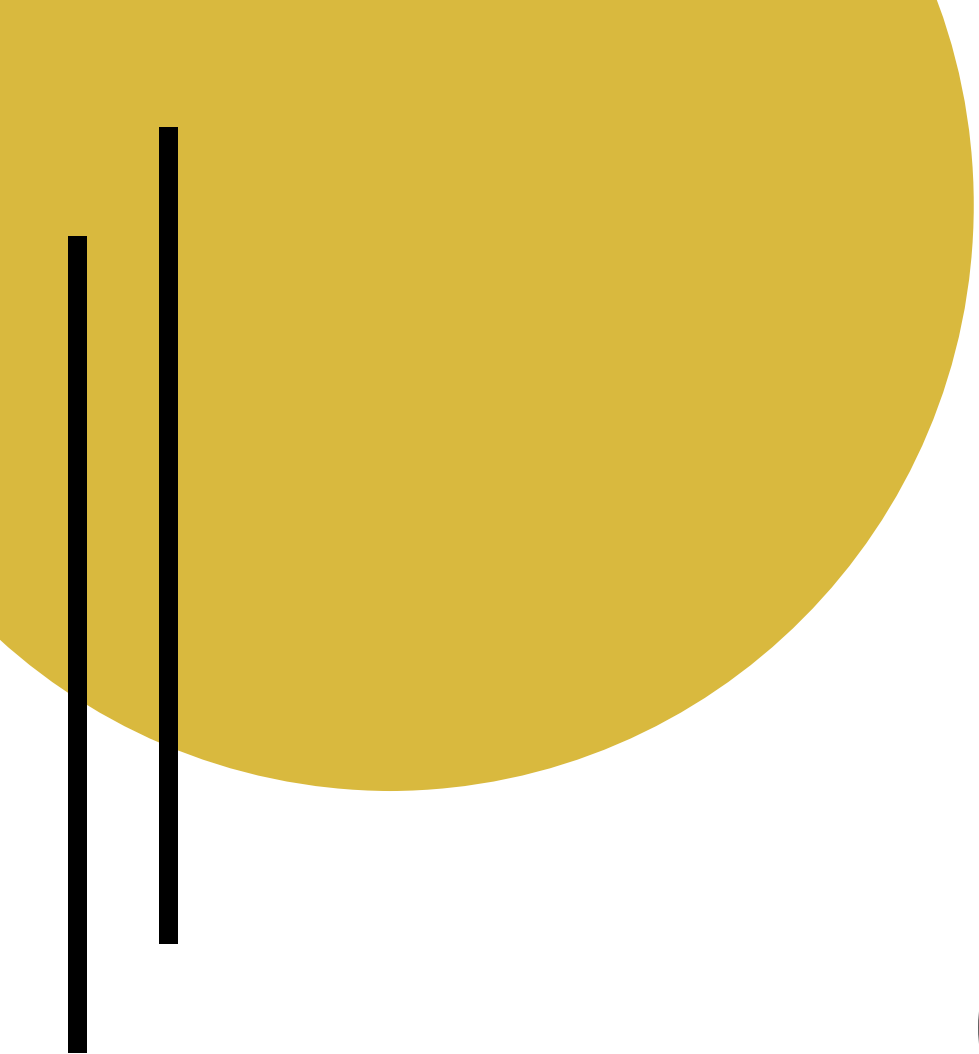
## ACTIVATING SSL

So that your site shows SECURE (SSL)

## TEST-BUILD FOR PRODUCTION.

Making an app doesn't make it production ready.





# QUESTIONS?

Feel Free to Drop Any!





# Thank you!

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