## **Chat Messages**

## **User Messages**

ScrapeChats;

```
i am not able to create free account on aws becouse i dont have credit card or
debit
**AWS Educate Program**: go with this
aws educate i have create an account now i want to deploy my nodejs application
where i have to run these command tell me step by step (is this free)
Enter your **AWS Access Key ID** and **Secret Access Key** (you can get these
from your AWS Educate account). i can not get these details from the aws
https://www.awseducate.com/student/s/content
is there any other service like aws which does not require credit cart so i will
deploy my nodejs app
how to deploy on vercel
deploying on vercel and geeting this error Error: listen EADDRINUSE: address
already in use :::5000 at Server.setupListenHandle [as listen2]
(node:net:1912:16) at listenInCluster (node:net:1969:12)
Error processing chat URL: Error: Could not find Chrome (ver. 131.0.6778.108).
This can occur if either 1. you did not perform an installation before running the
script (e.g. npx puppeteer browsers install chrome) or
i have got this error on render.com
this is my code const puppeteer = require('puppeteer'); const ScrapeChats = async
(req, res) => { try { const chatUrl = req.query.chatUrl; if (!chatUrl) { return
res.status(400).json({ error: 'Chat URL is required.' }); } const browser = await
puppeteer.launch(); const page = await browser.newPage(); await
page.goto(chatUrl, { waitUntil: 'networkidle2' }); // Wait for the chat container to
appear const chatSelector = 'div[class*="conversation-turn"]'; await
page.waitForSelector(chatSelector, { timeout: 60000 }); // Extract chat messages
const messages = await page.evaluate((selector) => { const elements =
document.guerySelectorAll(selector); return Array.from(elements) .map((el) =>
el.innerText.trim()) .join('\n\n'); }, chatSelector); await browser.close(); if
(!messages) { return res.status(400).json({ error: 'Failed to extract chat
messages.' }); } // Save messages to a PDF (or handle as needed) const fs =
require('fs'); const PDFDocument = require('pdfkit'); const path = require('path');
const doc = new PDFDocument(); const filePath = path.join(process.cwd(),
chats/chat-${Date.now()}.pdf); const writeStream =
fs.createWriteStream(filePath); doc.pipe(writeStream); doc.fontSize(16).text('Chat
Conversation', { align: 'center' }); doc.moveDown();
doc.fontSize(12).text(messages); doc.end(); writeStream.on('finish', () => {
res.status(200).json({ message: 'PDF created successfully', filePath }); }); } catch
(error) { console.error('Error processing chat URL:', error); res.status(500).json({
error: 'An error occurred while processing the chat URL.' }); } }; module.exports =
```

Error processing chat URL: Error: Tried to find the browser at the configured path (/usr/bin/google-chrome), but no executable was found.

## **ChatGPT Messages**

To create a free account on AWS, they typically require a credit card or debit card for identity verification and billing purposes. If you don't have one, here are some alternatives to consider: AWS Educate Program: If you're a student, you might be eligible for the AWS Educate program. It offers credits and access to AWS services without needing a credit card. You can apply for AWS Educate through your college. AWS Free Tier: You can still sign up for the AWS Free Tier, but you'll still need to provide a credit card or debit card to verify your identity. However, you will not be charged if you stay within the free usage limits. Virtual Credit Cards: Some online services offer virtual credit cards, which could work for identity verification purposes. Be sure to check if AWS accepts these types of cards before using them. Prepaid Debit Cards: If you have access to a prepaid debit card, you could try using it to verify your account. AWS Promotional Credits: If you are part of a program or event (like a hackathon), you might receive AWS promotional credits that can cover your usage, and they often don't require a card. If you're still facing issues, let me know, and I can suggest other possible solutions.

The AWS Educate Program is a great option if you're a student, as it provides access to AWS services without needing a credit card or debit card for verification. Here's how you can sign up: Visit the AWS Educate website: Go to the AWS Educate page at https://aws.amazon.com/education/awseducate/. Sign up with your student email: You'll need to register with a valid academic email address (like your university-provided email). If you don't have a student email, AWS may ask for proof of enrollment. Submit necessary documentation: AWS might require verification of your student status (such as a student ID or enrollment confirmation). Once approved, you'll get access to AWS credits. Access to AWS credits: After signing up, you may be granted free AWS credits that you can use to access various AWS services without needing a credit card. Educational resources: AWS Educate also provides tutorials and learning paths to help you get started with AWS services. This program is a great way to start learning and using AWS without the need for a credit card or debit card.

That's great that you've signed up for AWS Educate! To deploy your Node.js application, you can use AWS services such as AWS Elastic Beanstalk, Amazon EC2, or AWS Lambda depending on your use case. Here's how you can deploy your Node.js application using AWS Elastic Beanstalk, which is one of the simplest ways to get started: Step-by-Step Guide for Deploying Node.js Application on AWS Elastic Beanstalk Install the AWS CLI: Download and install the AWS CLI. After installing, configure it by running the following command in your terminal: bash Copy code aws configure You'll need to provide your AWS access key and secret key (which you get from the AWS Educate portal), along with your region and output format preferences. Install the Elastic Beanstalk CLI: The Elastic Beanstalk CLI (eb) helps you manage your Elastic Beanstalk applications easily. Install it using the following command: bash Copy code pip install awsebcli (Make sure you have Python and pip installed.) Prepare Your Node.js Application: Ensure that your Node.js application has a package.json file with all the dependencies listed. Add a Procfile in the root directory of your application. This file tells Elastic Beanstalk how to run your app. For a Node.js application, the Procfile typically

contains: bash Copy code web: node app.js (Replace app.js with your main app file name if it's different.) Initialize Elastic Beanstalk: In the root directory of your project, run the following command to initialize your Elastic Beanstalk project: bash Copy code eb init This will prompt you to select a region and platform (choose Node.js). Create an Elastic Beanstalk Environment: After initializing, create an environment and deploy your application by running: bash Copy code eb create my-node-app-env (You can replace my-node-app-env with your preferred environment name.) Deploy Your Application: Once the environment is ready, deploy your application using: bash Copy code eb deploy Access Your Application: After deployment, you can open your application in the browser by running: bash Copy code eb open This will open the public URL of your deployed Node.js app. Manage Your Application: You can check the status of your application by running: bash Copy code eb status To view logs, use: bash Copy code eb logs Additional Tips: Database: If your Node.js application requires a database, consider using Amazon RDS or Amazon DynamoDB. Both can easily integrate with your Node.js app. Scaling: Elastic Beanstalk can scale your application based on traffic automatically, and you can manage scaling policies through the AWS Management Console. By following these steps, your Node.js app should be successfully deployed to AWS Elastic Beanstalk. Let me know if you need help with any step! You can run these commands on your local machine (laptop or desktop), but make sure you have the necessary tools installed, such as the AWS CLI and Elastic Beanstalk CLI (EB CLI). I'll walk you through the steps in detail, including how to set up everything. Pre-requisites: AWS Educate Account (already set up) Node.js Application (ready to be deployed) AWS CLI and EB CLI installed on your local machine Step-by-Step Deployment Process: 1. Install AWS CLI Before you can deploy your application to AWS, you need to install the AWS Command Line Interface (CLI) on your local machine. Windows: Download and install from AWS CLI Windows. Mac/Linux: Use the following command to install AWS CLI: bash Copy code pip install awscli Once installed, run the following command to configure it with your AWS Educate credentials: bash Copy code aws configure Enter your AWS Access Key ID and Secret Access Key (you can get these from your AWS Educate account). Select your default region (e.g., us-west-2 or another AWS region near you). Choose JSON as the output format. 2. Install Elastic Beanstalk CLI (EB CLI) Now, you need to install the Elastic Beanstalk CLI to interact with AWS services from your terminal. Windows: You can install via pip: bash Copy code pip install awsebcli Mac/Linux: You can also install using the same command: bash Copy code pip install awsebcli 3. Prepare Your Node. is Application Ensure that your Node. is app is ready to be deployed. This includes: A package.json file with all your dependencies. A Procfile in the root directory to tell AWS how to run your app. It should look like: bash Copy code web: node app.js Replace app.js with the actual entry point to your application. 4. Initialize Elastic Beanstalk in Your Project Now you need to initialize your Elastic Beanstalk application. Open a terminal (Command Prompt, PowerShell, or Terminal) on your local machine. Navigate to the root folder of your Node.js application using the cd command: bash Copy code cd path/to/your/app Replace path/to/your/app with the actual path to your Node.js project. Run the following command to initialize your Elastic Beanstalk project: bash Copy code eb init During the initialization process: It will ask you to choose an AWS region (select a region where you'd like to deploy your application). Select Node.js as your platform. It will ask if you want to set up SSH (you can skip this if you're not planning to SSH into your instance). 5. Create an Elastic Beanstalk Environment Now, create an environment for your app. Run the

following command to create an environment: bash Copy code eb create my-node-app-env

Replace my-node-app-env with any name you want for your environment. This process might take a few minutes as AWS provisions the necessary resources (EC2 instance, load balancer, etc.). 6. Deploy Your Application to Elastic Beanstalk Once the environment is created, deploy your application. Run the following command: bash Copy code eb deploy This will upload your application code to AWS Elastic Beanstalk and start it. 7. Access Your Application After the deployment process is complete, you can access your application. Run the following command to open your app in a browser: bash Copy code eb open This will automatically open your browser and show your deployed Node.js application. 8. Monitor and Manage Your Application You can use several commands to monitor and manage your deployed application: View environment status: bash Copy code eb status View logs: bash Copy code eb logs Is This Free? AWS offers a Free Tier, which includes a limited amount of free resources each month. For a typical small Node.js application, Elastic Beanstalk's Free Tier should be sufficient, especially if you're using AWS Educate credits. The Free Tier includes: 750 hours per month of EC2 instances (for t2.micro or t3.micro instances). 5GB of standard storage in Amazon S3. 1GB of outbound data transfer. RDS (Relational Database Service) free tier for small databases. However, be aware that if your usage exceeds these limits or if you use non-free services, you could incur charges. Always monitor your usage through the AWS Console to avoid any surprise costs. Recap of Where to Run Commands AWS CLI (aws configure): Run on your local machine's terminal (Command Prompt/PowerShell/Terminal). Elastic Beanstalk CLI (eb init, eb create, eb deploy): Also run on your local machine's terminal, inside your Node.js project directory. This should cover the deployment process. If you have further questions or face any issues, feel free to ask! If you're unable to get the AWS access key and secret key from the AWS Educate portal,

here's how you can proceed to resolve this: Steps to Get AWS Credentials for AWS Educate: Login to AWS Educate: Go

Yes, there are several cloud platforms where you can deploy your Node.js application without requiring a credit card. Here are some alternatives to AWS that offer free tiers or student programs: 1. Heroku Free Tier: Heroku offers a free tier for hosting Node.js apps, and it does not require a credit card to sign up. How to Deploy: Create a Heroku account at Heroku. Install the Heroku CLI on your local machine. Run the following commands to deploy your app: bash Copy code git init heroku create git add . git commit -m "initial commit" git push heroku master Your app will be deployed and accessible via a Heroku subdomain (e.g., yourapp-name.herokuapp.com). Limitations: The free tier comes with limited resources (e.g., 550-1000 dyno hours/month) and can go to sleep after 30 minutes of inactivity. 2. Vercel Free Tier: Vercel offers a free tier that supports Node.js applications and does not require a credit card for deployment. How to Deploy: Create a Vercel account at Vercel. Connect your GitHub, GitLab, or Bitbucket repository containing the Node.js app. Vercel automatically detects the Node.js app and deploys it with minimal configuration. Limitations: Vercel is great for serverless Node.js functions, and while the free tier is quite generous, there may be limits on builds and requests per month. 3. Render Free Tier: Render offers a free tier for deploying Node.js apps, and no credit card is required. How to Deploy: Create an account at Render. Connect your GitHub repository, and Render will automatically deploy your Node.js app. Render offers automatic deployments on push to your GitHub repository. Limitations: The free tier includes limited resources, and your application can sleep after 1 hour of inactivity. 4. Glitch Free Tier: Glitch offers free hosting for Node.js apps, and you don't need a credit card to start. How to Deploy: Visit Glitch and sign up. Create a new project and upload your

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Node.js app or start from a template. You can also directly edit your app through the web
interface. Limitations: The free tier provides basic resources, and apps can go to sleep after 5
minutes of inactivity. 5. Fly.io Free Tier: Fly.io allows you to deploy small applications for free
with no credit card required. How to Deploy: Create an account at Fly.io. Install the Fly CLI.
Run commands like: bash Copy code fly launch fly deploy Your Node.js app will be deployed
globally. Limitations: The free tier provides limited resources, but it's sufficient for small
projects. 6. Railway Free Tier: Railway offers a free tier that does not require a credit card for
deploying Node.js applications. How to Deploy: Sign up at Railway. Create a new project and
link your GitHub repository. Railway will automatically deploy your Node.js application.
Limitations: The free tier provides basic resources, and your application can be suspended
after 500 hours of usage per month. Summary: Heroku, Vercel, Render, Glitch, Fly.io, and
Railway are all great alternatives to AWS, and they allow you to deploy your Node.js
application without requiring a credit card for the free tier. Each platform has some
limitations on usage, but they should be more than enough for small projects or development
purposes. If you need more detailed steps for any of these services, feel free to ask!
Deploying a Node js app on Vercel is quite straightforward. Here's how you can do it step by
step: Step 1: Create a Vercel Account Visit the Vercel website. Click on the Sign Up button
and create an account using your email, GitHub, GitLab, or Bitbucket account. After logging
in, you will be redirected to your Vercel dashboard. Step 2: Prepare Your Node.js Application
Ensure your Node.js application is ready for deployment: Make sure your app has a
package.json file with the necessary dependencies listed. If you're using a backend API with
Node.js, Vercel can automatically detect and handle serverless functions. Step 3: Link Your
GitHub (or GitLab/Bitbucket) Repository Vercel deploys applications directly from Git
repositories (GitHub, GitLab, or Bitbucket). Here's how to link your repository: On the Vercel
dashboard, click on the New Project button. Choose the GitHub (or GitLab/Bitbucket)
integration. Authorize Vercel to access your repositories and select the repository containing
your Node.js app. If you don't have a repository, you can create one on GitHub and push your
project there: bash Copy code git init git remote add origin
https://github.com/yourusername/your-repo.git git add . git commit -m "initial commit" git
push -u origin main Step 4: Deploy Your Application Once your repository is linked: Vercel will
automatically detect the type of application you're deploying (in this case, it will detect that
it's a Node.js app). It will show you a list of deployment settings. You can review them, but for
most Node.js apps, the defaults should work. Click on Deploy. Vercel will now start building
and deploying your app. Once the deployment is finished, you'll get a unique URL to access
your application (e.g., https://your-app-name.vercel.app). Step 5: Monitor Your Deployment
After deployment, you can monitor your app's logs, visit the URL, and check its status from
the Vercel dashboard. You can also set up automatic deployments, which will redeploy your
app every time you push changes to your Git repository. Step 6: Custom Domain (Optional) If
you want to use a custom domain for your app: In your Vercel project dashboard, go to the
Settings tab. Under Domains, click on Add. Follow the instructions to add your custom
domain. Additional Considerations: Serverless Functions: If you have an API within your
Node.js app, Vercel can automatically handle serverless functions. You can create a folder
called api/ in your project, and Vercel will treat files inside this folder as serverless endpoints.
Example folder structure: bash Copy code /my-node-app /api hello.js /public package.json
Inside hello.js, you can define a simple serverless function: js Copy code module.exports =
(req, res) => { res.status(200).json({ message: "Hello, world!" }); }; Build Configurations: If
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you need to customize the build process (e.g., specifying environment variables, custom build commands), you can do this through the vercel.json configuration file. Conclusion: Vercel offers a simple and efficient way to deploy Node.js applications. Once your repository is connected, deployment is mostly automated, and Vercel will handle scaling and serverless functions for you. Let me know if you need any additional help with deployment or setup! The error EADDRINUSE: address already in use :::5000 occurs because your Node.js application is trying to bind to port 5000, but on Vercel, you don't control which port the app will run on. Vercel dynamically assigns a port, and you need to adapt your app to use it. Here's how you can fix this issue: Steps to Fix Use Environment Variables for the Port: Update your Node.js app to use the port provided by Vercel. Modify the line where you're specifying the port (in app.listen() or similar). Use process.env.PORT like this: javascript Copy code const PORT = process.env.PORT || 5000; // Use the PORT provided by Vercel or default to 5000 app.listen(PORT, () => { console.log(`Server is running on port \${PORT}`); }); Push Changes to Your Repository: After making this change, save the file and commit it to your repository: bash Copy code git add . git commit -m "Fix: use dynamic port for Vercel deployment" git push Redeploy Your Application: Go back to your Vercel dashboard. Trigger a new deployment by pushing the changes to your GitHub (or GitLab/Bitbucket) repository or redeploying manually. Verify the Fix: Once the deployment is complete, visit the provided URL to check if your app is running correctly. Why This Happens On Vercel, you don't bind your server to a fixed port like 5000. Instead, Vercel sets a port through the PORT environment variable. If your app attempts to use a hardcoded port like 5000, it conflicts with the internal system, causing the EADDRINUSE error. By dynamically assigning the port, your application becomes compatible with Vercel's server environment. Let me know if you encounter any further issues!

This error occurs because Puppeteer, which is used for server-side browser automation, cannot find the correct version of Chrome. On deployment platforms like Vercel, you need to install the required browser binaries explicitly or adjust Puppeteer's configuration. Here's how you can fix it step by step: Solution 1: Add Puppeteer with Custom Chromium Dependency Install the Puppeteer Dependency Ensure Puppeteer is listed in your package.json: bash Copy code npm install puppeteer Modify Puppeteer to Use Installed Chrome Update your code to use Puppeteer's bundled Chromium. For example: javascript Copy code const puppeteer = require('puppeteer'); (async () => { const browser = await puppeteer.launch({ headless: true, args: ['--no-sandbox', '--disable-setuid-sandbox'], // Required for environments like Vercel }); const page = await browser.newPage(); await page.goto('https://example.com'); console.log(await page.title()); await browser.close(); })(); Add Puppeteer's Chromium to Build Add a postinstall script in your package.json to install Chromium during deployment: json Copy code "scripts": { "postinstall": "puppeteer install" } Push Changes and Redeploy Commit your changes and push them to the repository to trigger a new deployment on Vercel: bash Copy code git add . git commit -m "Fix: Puppeteer setup with Chromium" git push Solution 2: Use Puppeteer Core with Existing Chrome If you don't want to bundle Chromium, you can configure Puppeteer to use an existing system installation of Chrome or Chromium. Install Puppeteer Core bash Copy code npm install puppeteer-core Specify Chrome Executable Path Update your Puppeteer script to point to the system-installed Chrome: javascript Copy code const puppeteer = require('puppeteer-core'); const chromium = require('chrome-aws-lambda'); // For Lambda environments like Vercel (async () => { const browser = await puppeteer.launch({ executablePath: await chromium.executablePath, // Get

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path to installed Chrome args: chromium.args, // Required args for Vercel headless: chromium.headless, }); const page = await browser.newPage(); await page.goto('https://example.com'); console.log(await page.title()); await browser.close(); })(); Push Changes and Redeploy bash Copy code git add . git commit -m "Fix: Use puppeteer-core with existing Chrome" git push Solution 3: Install Dependencies with a Custom Build Script Add a vercel.json configuration file to specify dependencies: json Copy code { "build": { "env": { "PUPPETEER_SKIP_CHROMIUM_DOWNLOAD": "true" } } } You can then include Puppeteer as part of your build process by providing explicit steps in your Vercel build script. Common Issues and Fixes: Error --no-sandbox: Ensure you pass the --no-sandbox and -- disable-setuid-sandbox arguments in environments like Vercel. Large Deployments: Puppeteer and Chromium are heavy; consider using a lightweight alternative or serverless execution. Let me know which solution works for your project or if you need further clarification!
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If you're encountering the Puppeteer error on Render.com, it's because Puppeteer cannot find or install the required Chromium browser during the build process. Render's environment requires specific configurations for Puppeteer to work properly. Here's how to fix it: Steps to Fix Puppeteer Deployment on Render.com Install Puppeteer Ensure Puppeteer is listed in your dependencies. Run: bash Copy code npm install puppeteer Modify Puppeteer Launch Configuration Render's server environment requires certain flags to be passed to Puppeteer. Update your Puppeteer launch configuration as follows: javascript Copy code const puppeteer = require('puppeteer'); (async () => { const browser = await puppeteer.launch({ headless: true, args: [ '--no-sandbox', '--disable-setuid-sandbox', '--disable-dev-shm-usage', '--disableaccelerated-2d-canvas', '--no-first-run', '--no-zygote', '--single-process', '--disable-gpu'], }); const page = await browser.newPage(); await page.goto('https://example.com'); console.log(await page.title()); await browser.close(); })(); Add a Build Command to Render Puppeteer needs to install Chromium during the build. Add a postinstall script to your package.json: json Copy code "scripts": { "postinstall": "puppeteer install" } Set Environment Variables Add the following environment variables in the Render dashboard for your service: Key: PUPPETEER SKIP CHROMIUM DOWNLOAD Value: false Key:

PUPPETEER\_EXECUTABLE\_PATH Value: /usr/bin/google-chrome Increase Render's Memory Allocation (If Needed) Puppeteer with Chromium can be memory-intensive. If your app crashes, increase the memory allocation in Render by upgrading your plan or optimizing resource usage. Push Changes and Redeploy Commit your changes and push to your repository. Render will automatically pick up the new configuration and redeploy your app: bash Copy code git add . git commit -m "Fix Puppeteer deployment on Render" git push Troubleshooting Error: --no-sandbox: Ensure the --no-sandbox flag is included in the args array when launching Puppeteer. Chromium Not Found: Double-check the postinstall script and PUPPETEER\_SKIP\_CHROMIUM\_DOWNLOAD environment variable. Out of Memory: Optimize your application or upgrade the Render plan. Let me know if this resolves your issue or if you need additional help!

Your Puppeteer-based scraping script looks good, but the issue arises when deploying to platforms like Render.com. The platform doesn't have the required environment setup for Puppeteer to run smoothly out of the box. Here's how you can adapt your code and deployment process to make it work: Updated Code for Render Deployment javascript Copy code const puppeteer = require('puppeteer'); const ScrapeChats = async (req, res) => { try { const chatUrl = req.query.chatUrl; if (!chatUrl) { return res.status(400).json({ error: 'Chat

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URL is required.' }); } // Launch Puppeteer with Render-specific settings const browser =
await puppeteer.launch({ headless: true, args: [ '--no-sandbox', '--disable-setuid-sandbox', '--
disable-dev-shm-usage', '--disable-accelerated-2d-canvas', '--no-first-run', '--no-zygote', '--
single-process', '--disable-gpu', ], }); const page = await browser.newPage(); await
page.goto(chatUrl, { waitUntil: 'networkidle2' }); // Wait for the chat container to appear
const chatSelector = 'div[class*="conversation-turn"]'; await
page.waitForSelector(chatSelector, { timeout: 60000 }); // Extract chat messages const
messages = await page.evaluate((selector) => { const elements =
document.querySelectorAll(selector); return Array.from(elements) .map((el) =>
el.innerText.trim()) .join('\n\n'); }, chatSelector); await browser.close(); if (!messages) { return
res.status(400).json({ error: 'Failed to extract chat messages.' }); } // Save messages to a
PDF const fs = require('fs'); const PDFDocument = require('pdfkit'); const path =
require('path'); const doc = new PDFDocument(); const filePath = path.join(process.cwd(),
`chats/chat-${Date.now()}.pdf`);    const writeStream = fs.createWriteStream(filePath);
doc.pipe(writeStream); doc.fontSize(16).text('Chat Conversation', { align: 'center' });
doc.moveDown(); doc.fontSize(12).text(messages); doc.end(); writeStream.on('finish', () =>
{ res.status(200).json({ message: 'PDF created successfully', filePath }); }); } catch (error) {
console.error('Error processing chat URL:', error); res.status(500).json({ error: 'An error
occurred while processing the chat URL.' }); } }; module.exports = ScrapeChats; Changes
Made: Added Puppeteer Launch Arguments: These ensure compatibility with Render's
restricted server environment: --no-sandbox and --disable-setuid-sandbox prevent
sandboxing issues. Other flags optimize memory usage. Error Handling: Retained your robust
error-handling mechanism. Deployment Checklist for Render.com Ensure Puppeteer and
Dependencies Are Installed: Add Puppeteer as a dependency in your package.json: bash
Copy code npm install puppeteer Add postinstall Script to package.json: Puppeteer needs to
install its Chromium binary during deployment. Add the following script to your package.json:
json Copy code "scripts": { "postinstall": "puppeteer install" } Set Environment Variables on
Render: Add these variables in the Render dashboard under the Environment Variables
section: PUPPETEER SKIP CHROMIUM DOWNLOAD: false NODE ENV: production Create the
Chats Directory: Ensure the chats directory exists on the server or create it dynamically
before saving PDFs: javascript Copy code const fs = require('fs'); const chatsDir =
path.join(process.cwd(), 'chats'); if (!fs.existsSync(chatsDir)) { fs.mkdirSync(chatsDir); }
Redeploy Your Service: Commit your changes and push to your repository: bash Copy code git
add . git commit -m "Fix Puppeteer compatibility with Render" git push Render will
automatically detect the changes and redeploy. Debugging Tips View Logs on Render: If the
app still fails, check the logs in the Render dashboard under Logs to understand the issue.
Increase Memory or CPU Allocation: Puppeteer requires significant resources. If Render's free
tier doesn't suffice, you may need to upgrade. Let me know if you encounter further issues or
need clarification!
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The error indicates that Puppeteer is configured to look for Chrome at /usr/bin/google-chrome, but the Chrome executable is not present on the Render server. To fix this issue, you can take one of the following approaches: Approach 1: Use Puppeteer's Bundled Chromium If you want Puppeteer to automatically install and use its bundled Chromium, you need to ensure that the deployment environment allows Puppeteer to download it. Remove the Chrome Path Configuration If you've set PUPPETEER\_EXECUTABLE\_PATH as /usr/bin/google-chrome, remove it from the Render environment variables. Enable Puppeteer's Chromium

Download Ensure Puppeteer downloads its own Chromium by including the following environment variable in Render: Key: PUPPETEER SKIP CHROMIUM DOWNLOAD Value: false Add a Post-Install Script Add the following postinstall script to your package.json to ensure Puppeteer installs its Chromium during the deployment: json Copy code "scripts": { "postinstall": "puppeteer install" } Redeploy Push your changes to the repository to trigger a new build. Approach 2: Install Google Chrome Manually If you prefer using the systeminstalled Chrome (for faster builds or compatibility reasons), you need to manually install Chrome in the Render environment. Add a Build Command in Render In your Render dashboard, configure a custom build command to install Chrome: bash Copy code sudo aptget update && sudo apt-get install -y wget gnupg wget https://dl.google.com/linux/direct/google-chrome-stable\_current\_amd64.deb sudo dpkg -i google-chrome-stable\_current\_amd64.deb || sudo apt-get -f install -y Update Puppeteer Launch Options Configure Puppeteer to use the system-installed Chrome: javascript Copy code const puppeteer = require('puppeteer'); const browser = await puppeteer.launch({ executablePath: '/usr/bin/google-chrome', // Path to the installed Chrome headless: true, args: ['--no-sandbox', '--disable-setuid-sandbox'], }); Redeploy Push your changes and trigger a new build. Approach 3: Use Headless Chrome with Puppeteer-Core You can switch to puppeteer-core and install Chrome manually. Install Puppeteer-Core Replace Puppeteer with Puppeteer-Core: bash Copy code npm install puppeteer-core Configure Puppeteer to Use System Chrome Update your Puppeteer code: javascript Copy code const puppeteer = require('puppeteer-core'); const browser = await puppeteer.launch({ executablePath: '/usr/bin/google-chrome', // Adjust the path if needed headless: true, args: ['--no-sandbox', '-disable-setuid-sandbox'], }); Install Chrome in Render's Build Command Use the build command from Approach 2. Debugging Check Logs: If the error persists, check Render's logs under the Logs tab in your service dashboard. Verify Chrome Path: After installation, check if Chrome is correctly installed by SSHing into the Render environment (if available) or checking installation steps. Let me know if these steps resolve the issue or if you need further help!