Error-Proof AWS EC2 Installation Guide: EasyPanel & n8n

Welcome to this comprehensive guide for setting up EasyPanel and n8n on AWS EC2 using Ubuntu. This presentation will walk you through each step of the process, highlighting critical points to avoid common errors.

We'll cover everything from initial AWS setup to final verification, ensuring you have a secure, stable configuration with proper SSL certificates and domain settings. By following these instructions carefully, you'll avoid the frustrating issues many users encounter.

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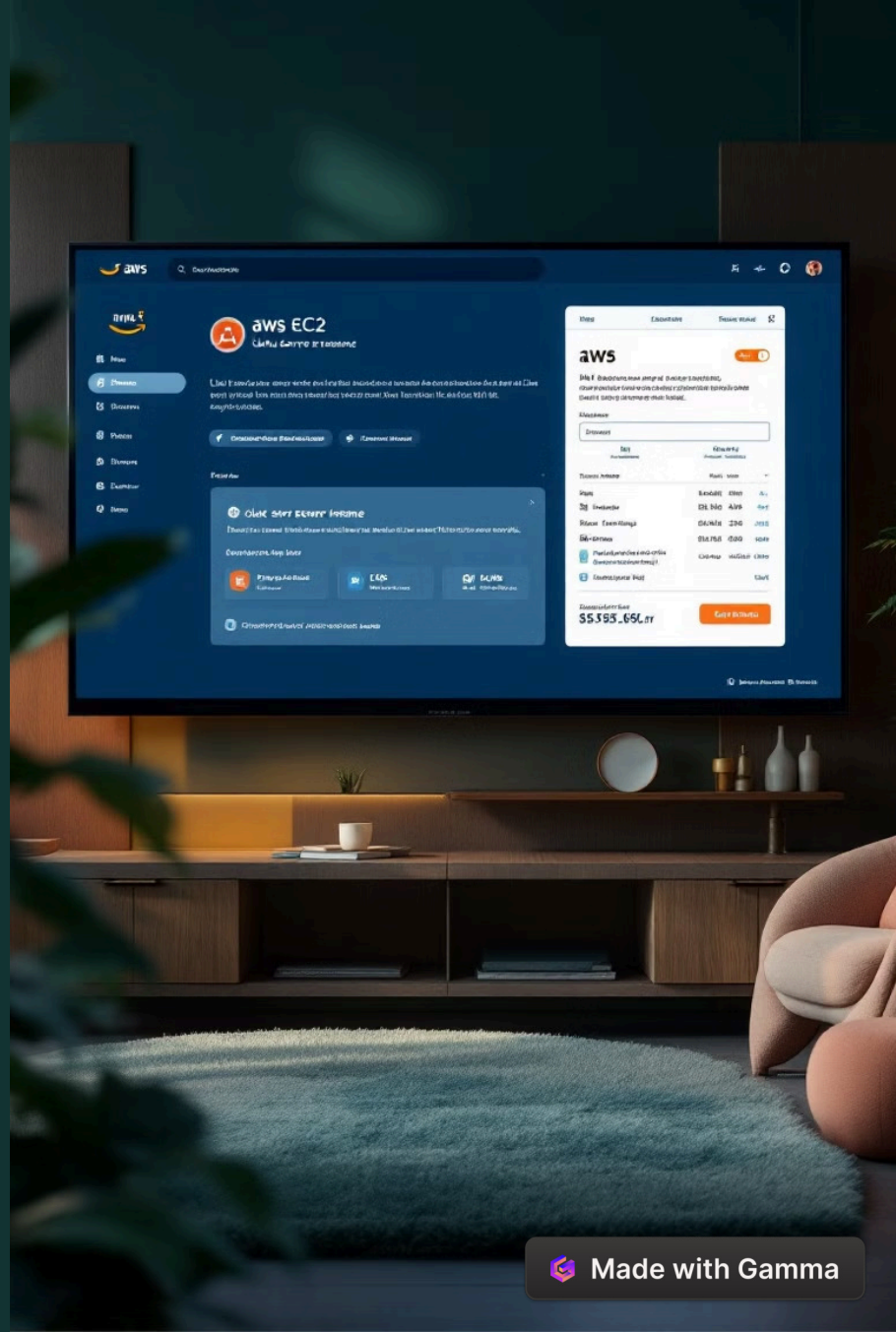
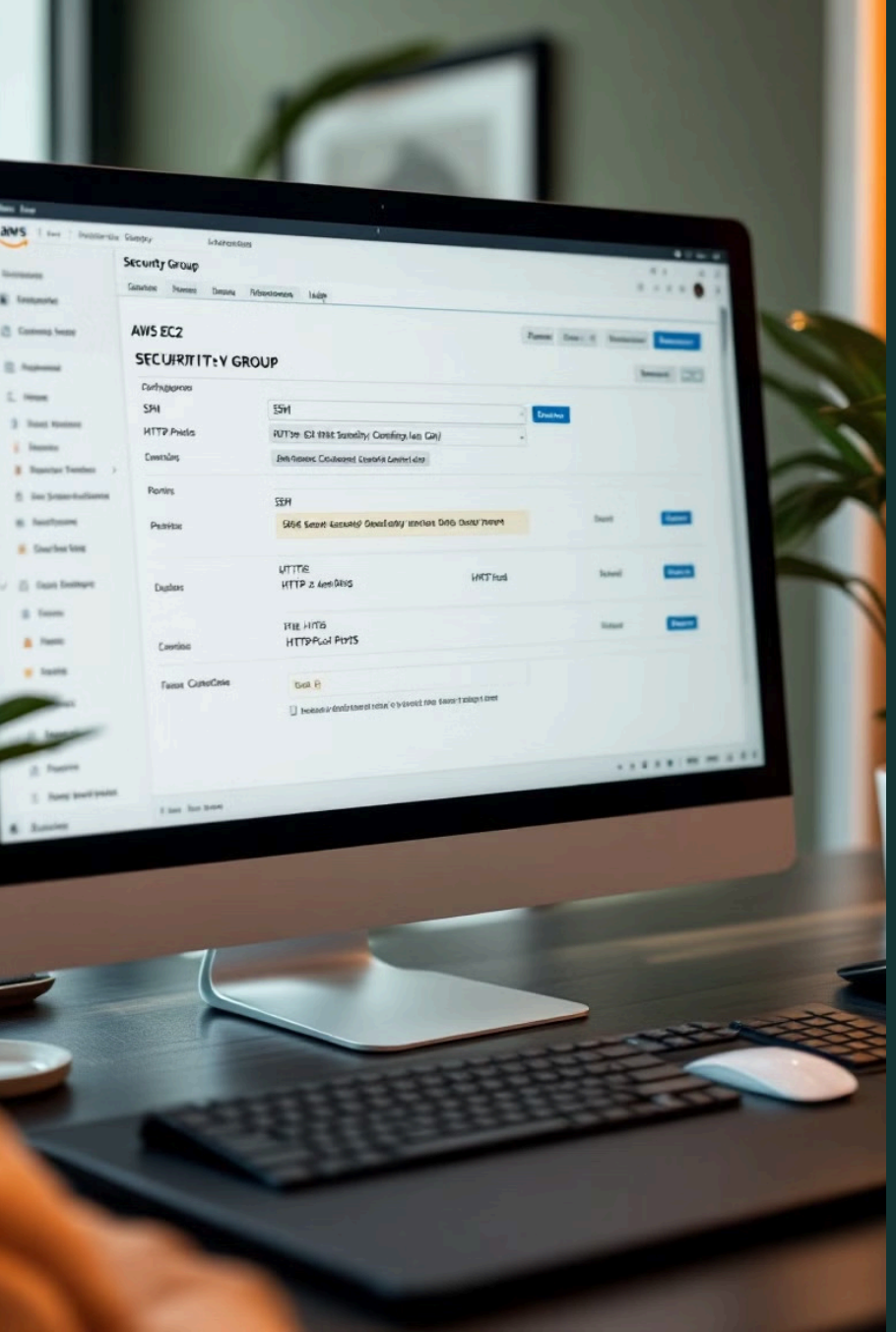




Phase 1: Initial AWS EC2 Setup

Launch EC2 Instance

Navigate to EC2 in AWS Console and click "Launch instances". Choose a descriptive name like "EasyPanel-Server-Ready". Select Ubuntu Server 22.04 LTS (64-bit) and a suitable instance type (t3.micro or t2.micro).

Create Key Pair

Click "Create new key pair". Choose .ppk format for PuTTY or .pem for Terminal/PowerShell. **Save this file in a very safe place!** This is critical for SSH access.

Configure Network Settings

Edit network settings to enable public IP. Create security group "EasyPanel-SG-Good" with inbound rules for SSH (port 22, your IP only), HTTP (port 80), and HTTPS (port 443).

Completing EC2 Setup & Elastic IP

Configure Storage & IAM

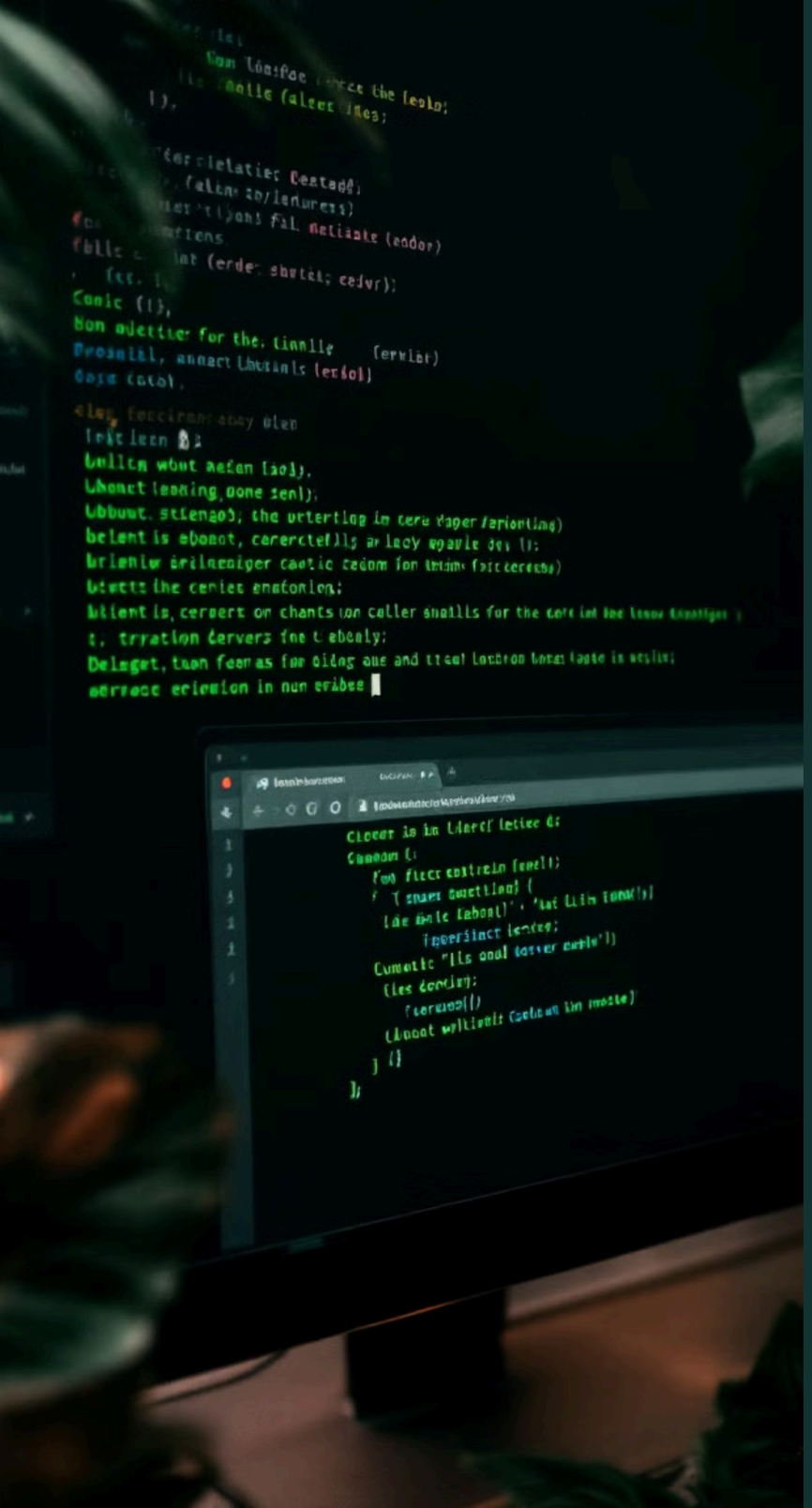
Leave default storage (30GB gp3). In Advanced details, expand and set IAM instance profile to EC2-SSM-Role with AmazonSSMManagedInstanceCore policy, or create a new one.

Allocate Elastic IP

After launching instance, go to "Network & Security" → "Elastic IPs". Allocate a new address and associate it with your instance. This provides a fixed public IP.

Configure DNS

Update DNS records at your domain provider. Add Type A records for "easypanel" and "n8n" subdomains, pointing to your new Elastic IP. Allow time for propagation.



Phase 3: Connect and Prepare Server

Connect via PuTTY (Windows with .ppk)

Open PuTTY and enter your Elastic IP as Host Name. Go to Connection → SSH → Auth → Browse and select your .ppk file. Click "Open" and login as "ubuntu".

Connect via Terminal (Mac/Linux with .pem)

First run: chmod 400 your_key_file.pem

Then connect: ssh -i /path/to/your_key_file.pem ubuntu@your_elastic_ip

Type "yes" if prompted about host fingerprint.

Update Server

Run these commands in sequence:

sudo apt update

sudo apt upgrade -y

sudo apt install curl -y

Phase 4: Install and Configure EasyPanel

Download Installation Script

Run: curl -sSL https://get.easypanel.io -o easypanel_install.sh

Execute Installation

Run: sudo bash ./easypanel_install.sh

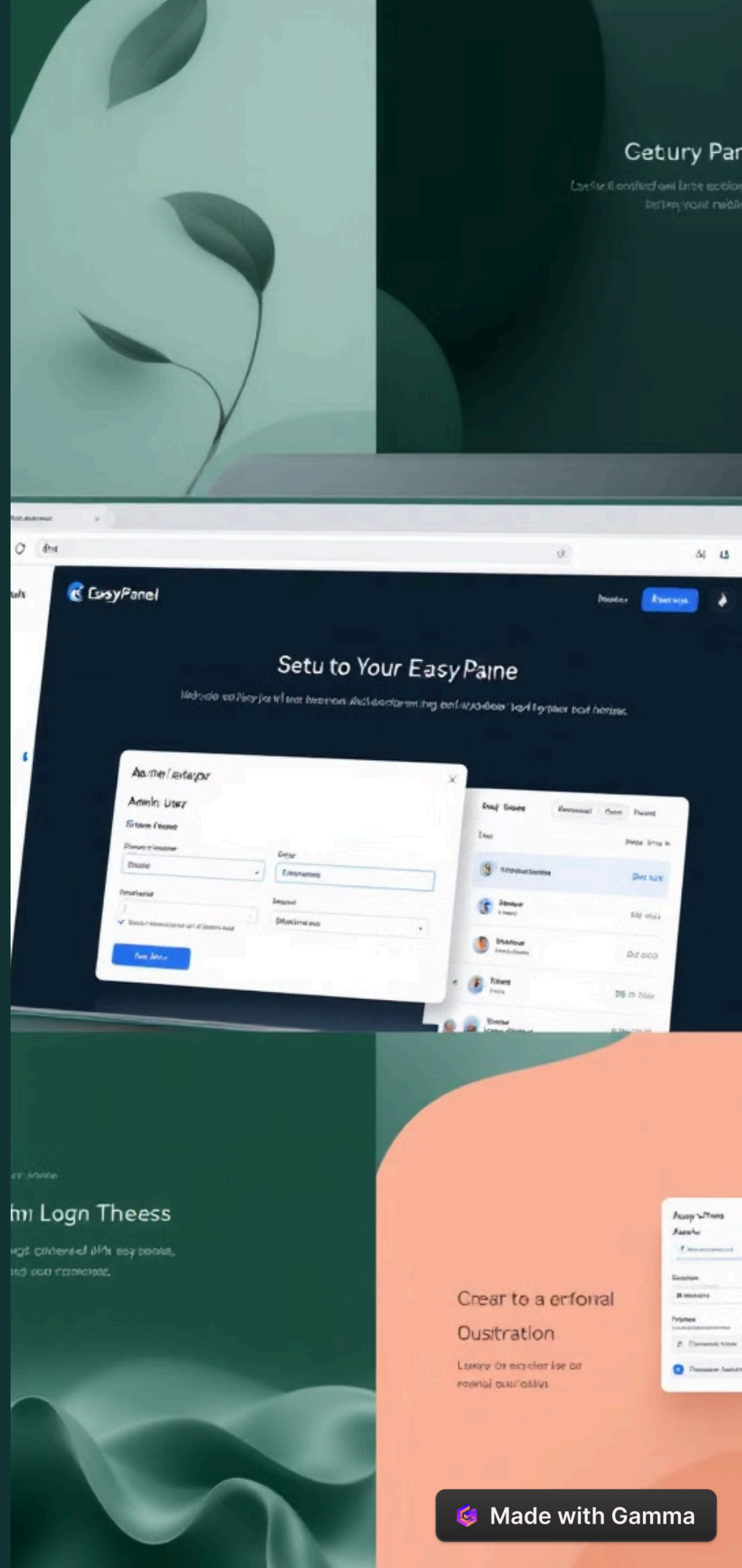
Wait for completion. Docker and other dependencies will be installed automatically.

Initial Setup

Access http://your_elastic_ip:3000 in your browser. Create admin user and set "Main Domain" to easypanel.your_domain.com.

Verify Secure Access

Wait ~2 minutes for SSL provisioning, then access https://easypanel.your_domain.com (note HTTPS, no port).



Phase 5: Install n8n via EasyPanel

Deploy n8n

Log in to EasyPanel. Click "New Project", name it (e.g., n8n-app), and create. Inside the project, click "Add Service", select the "n8n" template, and click "Deploy".

Configure Domain

In n8n service settings, go to "Domains" tab. Add domain: n8n.your_domain.com, path: /, internal port: 5678. Save and wait ~1 minute for SSL.

Set Environment Variables

Go to "Environment Variables" tab. Add: N8N_EDITOR_BASE_URL, WEBHOOK_URL, N8N_RATE_LIMIT_TRUST_PROXY, GENERIC_TIMEZONE, and N8N_RUNNERS_ENABLED with appropriate values.

Redeploy n8n

Click "Redeploy" or "Update" button for the n8n service to apply all changes.

Phase 6: Final Verification

Access n8n

Visit https://n8n.your_domain.com and verify you see the n8n interface with a closed HTTPS lock icon in your browser.

Consider Backups

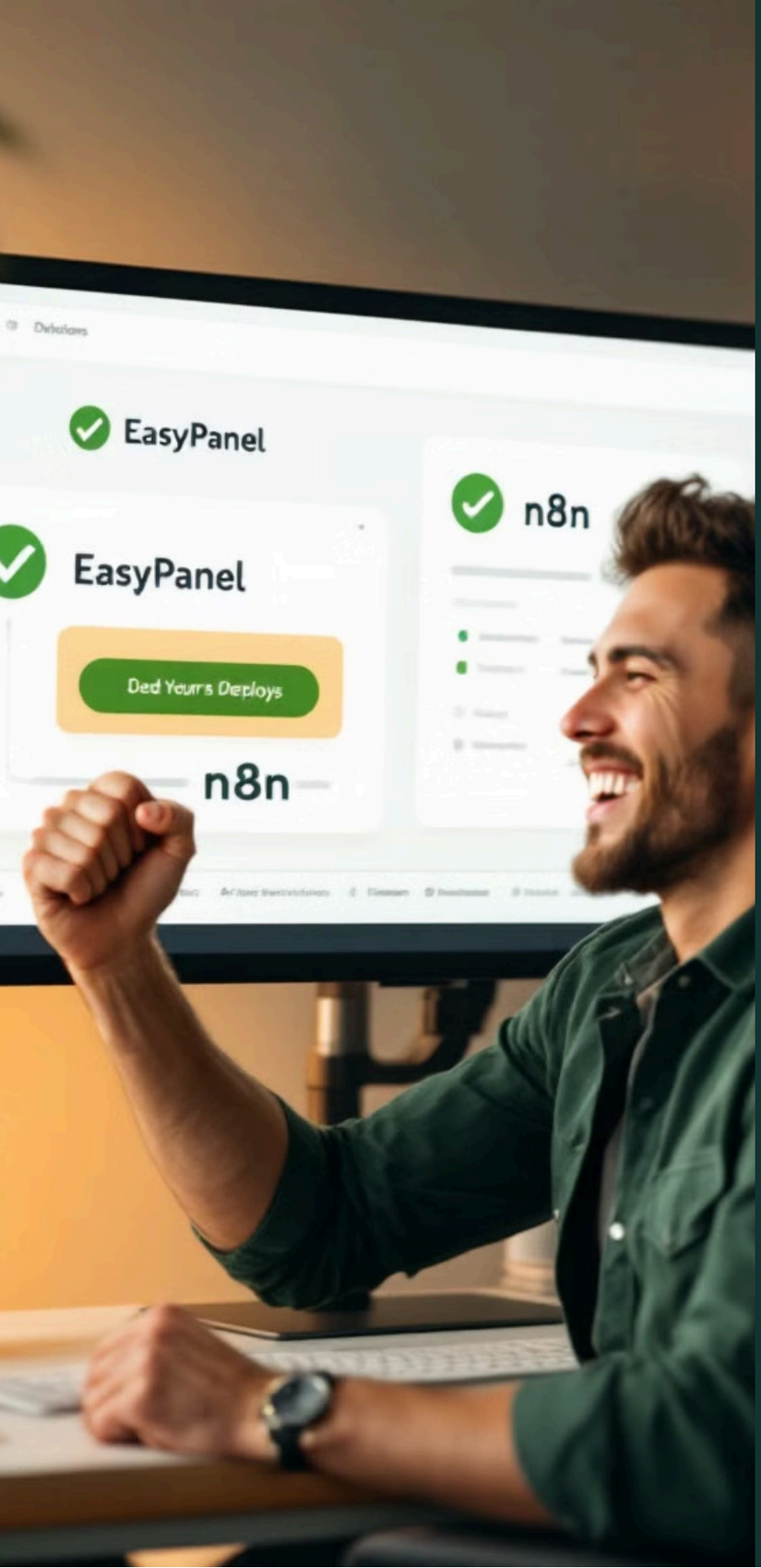
Ensure you have a backup strategy for your workflows and data.

Create Account

Complete the n8n setup by creating your owner account with secure credentials.

Test Functionality

Create a simple workflow to verify that triggers and actions work correctly.



Common Errors Prevented

SSH Connection Issues

Avoided by creating a dedicated key pair, using correct format, and limiting SSH access to your IP.

SSL Certificate Failures

Solved by correctly configuring HTTP/HTTPS ports and proper domain setup.

Webhook/Trigger Failures

Addressed by setting correct environment variables with HTTPS URLs.

IP Change Problems

Resolved by using Elastic IP from the beginning for all configurations.

Congratulations! You now have EasyPanel and n8n running correctly in a secure and stable configuration. This setup avoids the common pitfalls that many users encounter, providing you with a reliable platform for automation workflows.