

Jenkins Unleashed: From AWS to Web Deployment

Introduction:

In today's tech-driven era, automation is paramount, and Jenkins stands as a key player. This blog navigates you through pivotal steps, from installing Jenkins on AWS to automating web server setup and deploying websites.

Setting up Jenkins on AWS:

Connecting to Instance:

- Use `sudo su - root` and `systemctl status jenkins` to ensure Jenkins is running.

Accessing Jenkins Dashboard:

- Obtain public IP, access Jenkins dashboard at `http://<your_instance_ip>:8080`.

Automating Commands with Jenkins:

Creating Your First Job:

- On Jenkins dashboard, create a new "Freestyle Project" job.

Setting Up the Job:

- Configure the job, add "Execute Shell" build step for Linux commands, and click "Save."

Running Your Jenkins Job:

- Initiate a build by clicking "Build Now" on the job page. Monitor successful execution.

Editing Jobs:

- Make changes via "Configure," save, and Jenkins will assign a new build number.

Viewing Job Output:

- Inspect output via job history and "Console Output."

Granting Root Powers to Jenkins:

- Edit sudoers file (`sudo visudo`) to grant Jenkins root powers.

Automating Web Server Setup:

Installing the Web Server:

- Create a Jenkins job, select freestyle project, and configure it.

Configuring Jenkins Job:

- Add necessary commands using "Execute Shell."

Executing the Jenkins Job:

- Save configuration and trigger execution. Verify successful setup by accessing the web server.

Automating Website Deployment:

Configuring Jenkins for GitHub Integration:

- Install Git and Git plugin in Jenkins, add GitHub repository URL to job configuration.

Automating Code Pull and Deployment:

- Create Jenkins job, specify GitHub repository URL, and define workspace.

Implementing Triggers for Automation:

- Use triggers like "Build Periodically" or "Poll SCM" for scheduled or event-driven deployments.

Conclusion:

This blog has equipped you to harness Jenkins for AWS setup, web server automation, and website deployment. In a world where time is of the essence, Jenkins empowers you to streamline tasks, foster efficiency, and embrace a future of continuous improvement.

Unleash the power of automation with Jenkins!

Check_Out_Detailed_Blog:-<https://medium.com/@srivastavayushmaan1347/automating-excel-lence-a-journey-with-jenkins-from-aws-setup-to-web-deployment-c789494031b8>