

1. Project Title :

Ansible Custom Plugin for Live Jobs & News Update by Web Scraping .

2. Gist About the Project :

As a user or a undergraduate student I normally search for variety of core job profiles such as DevOps Engineer, Data Scientist, Cloud Specialist etc & their requirements in various preferred locations. Leaving these behind I am also interested in Sports and Entertainment World. So I do visit some articles or news channels for getting those stuffs per daily basis. So finally **Vimal Sir** showed me path so that I can automate this task using Ansible tool.

In this project I have developed a custom plugin which on using in a playbook will prompt user for providing the *link to the news article and preferred job profile*. Before that the playbook will ask user the **password** , if user enters the correct password the playbook will be executed. Firstly some system & process related information will be displayed to the user such as **today's date, process tree, memory used** etc. Then it will display some **job titles, company names with ratings, locations & job description** respectively. Later the playbook will fetch data from the provided link and will display in three parts namely **Article Title, Article Text & Article Summary**. In case user enters wrong password the playbook will show an authentication error & will be terminated .

3. Technologies Used :

- Red Hat Enterprise Linux V8
- Red Hat Ansible Engine 2.9
- Python 3.7
- Some default Python Modules
 - os
 - time
 - datetime
- Some External Python Modules
 - bs4
 - nltk
 - requests
 - newspaper

4. Conclusion :

In this project I have successfully created a simple prototype or Ansible Plugin script using Python with Web Scraping concept to achieve some of automation in my daily routine. This project really helped me to go more deep dive into some internals & doing research and learn some more new things in Ansible World .

I would like to express my gratitude to the World Record Holder **Mr.Vimal Daga** & his whole **LinuxWorld Team** for giving me this golden opportunity to do such a wonderful project as well as the expert guidance & encouragement .

5. Future Scope :

Briefly Ansible is easy-to-learn & doesn't require a grad-level computer science degree to learn. Moreover it has a wide variety of plugins which makes Ansible mature enough to integrate with multiple technologies & work together fantastically. Here I have just shown an example how to automate the searching in internet & some more. This can be more optimized , customized and be made more user-friendly. Also a GUI or Web UI can be added for taking user input to this for better User experience. At the end, I can say Ansible is all about helping users & making life simple .