



**Want to learn how
Automation plays a role in
Linux Machines today?**

**Check out this informational
pamphlet!**

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**Automation
tools**

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Ansible

WHAT IS IT?

Ansible is an agentless tool that uses "Playbooks" to configure servers and deploy apps via SSH.

UTILIZATION

It's an ideal solution for pushing identical settings to hundreds of Linux or Windows servers at once.

PROVISOS

Indentation Errors: YAML syntax is unforgiving; just one extra space can break the script.

SSH Bottlenecks: SSH can slow down when managing thousands of nodes simultaneously.

Jenkins

WHAT IS IT?

Jenkins is a central automation server that triggers builds and tests whenever code is updated.

UTILIZATION

Mainly used to automate the pipeline from a developer's laptop to the production website.

PROVISOS

Plugin Fatigue: Requires constant updates across multiple plugins, which can create security gaps.

High Maintenance: Unlike cloud-native tools, it requires a dedicated server and an admin to manage it.

Terraform

WHAT IS IT?

Terraform is Infrastructure as Code that uses "State Files" to build and track cloud resources.

UTILIZATION

Used to automatically spin up entire VM's, storage, and databases in AWS and Azure.

PROVISOS

State Fragility: If the "State File" is lost or corrupted, Terraform loses track of what you built.

Accidental Deletion: A small code change can sometimes trigger a "destroy-and-recreate" cycle on live data.