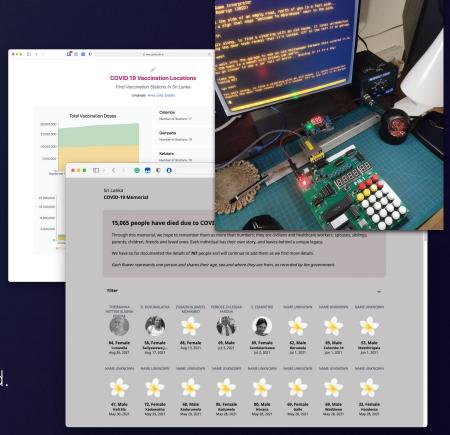
ANSIBLE FOR DEVELOPERS



About Me

- Associate Technical Lead at Dual Inventive.
- Previous stints at YAMU, WSO2 and Gradient.
- Full stack developer with focus on rapid app development.
- Computer hobbyist, I build stuff for fun, or sometimes for common good.





Talk Outline

- Introduction to Ansible.
- Ansible for developers.
- Ansible 101 Architecture & terminology.
- Automation demos Setting up a "secure" web server.
- Further learning resources.



Introduction to Ansible

- Open Source tool to simplify configuration and management of IT infrastructure.
- Declarative define the desired state of the system in YAML rather than writing procedural code.
- Agentless, operates over SSH thus lightweight without requiring additional dependencies.



Ansible for Developers

- Efficiency via automation of repetitive task improving productivity.
- Collaboration and reproducibility using version control.
- Catalyst for DevOps culture in your organization.

HOW LONG CAN YOU WORK ON MAKING A ROUTINE TASK MORE EFFICIENT BEFORE YOU'RE SPENDING MORE TIME THAN YOU SAVE? (ACROSS FIVE YEARS)

		HOW OFTEN YOU DO THE TASK					
		50/DAY	5/DAY	DAILY	MEEKLY	MONTHLY	YEARLY
HOW MUCH TIME YOU SHAVE OFF	1 SECOND	1 DAY	2 HOURS	30 MINUTES	4 MINUTES	1 MINUTE	SECONDS
	5 SECONDS	5 DAYS	12 Hours	2 Hours	21 MINUTES	5 MINUTES	25 SECONDS
	30 SECONDS	4 WEEKS	3 DAYS	12 HOURS	2 HOURS	30 MINUTES	2 MINUTES
	1 MINUTE	8 WEEKS	6 DAYS	1 DAY	4 HOURS	1 HOUR	5 MINUTES
	5 MINUTES	9 MONTHS	4 WEEKS	6 DAYS	21 HOURS	5 HOURS	25 MINUTES
	30 MINUTES		6 MONTHS	5 WEEKS	5 DAYS	1 DAY	2 Hours
	1 HOUR		IO MONTHS	2 монтня	IO DAYS	2 DAYS	5 HOURS
	6 HOURS				2 монтня	2 WEEKS	1 DAY
	1 DAY					8 WEEKS	5 DAYS

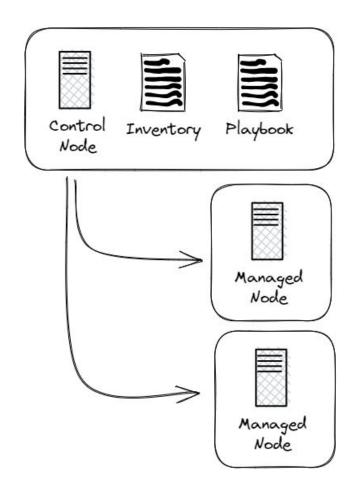


ANSIBLE 101



Architecture

- **Control Node** the host machine executing automation tasks.
 - Inventory file that defines
 the managed nodes
 - Playbook automation tasks defined in YAML.
- Managed Node systems that are managed and controlled by Ansible.





Essential Terminology

- Playbook contains set of plays written in YAML
- Plays are the main execution context mapped to managed nodes.
 - Tasks unit of work to be applied to nodes.
 - Handlers special form of a task, triggered on changed task.
 - Roles definition of reusable ansible content.
- **Collections** are distributed ansible content which contains playbooks, roles and modules. Installed through the Ansible Galaxy.



AUTOMATION DEMOS



Further Learning Resources

- Ansible Documentation docs.ansible.com
- Ansible Galaxy galaxy.ansible.com
- Free Online Courses
 - Ansible 101 by Jeff Geerling on YouTube
- Demo Source <u>Github kaveenr/gapstars-ansible-for-devs-talk</u>

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THANKYOU

