

## Terraform&Ansible Automate Architecture on AWS

### FILE STRUCTURE

Terraform	Ansible
Terraform.tfvars -> Secret credetials for terraform files ( IAM access,secret and rds password )	Files/apache.conf.j2 -> apache virtual host file
Main.tf -> For provisioning all cloud resources ( EC2,S3 and RDS )	Files/wp-config.php.j2 -> database connection strings (variables )and php configs
Variables.tf -> all resources name, tag names , instance name type, ami an etc	Vars/default.yml -> aws RDS endpoint,db name,user,pass (variables values)and http settings (host,port)
Outputs.tf -> to display instance id , public ip of ec2 and rdc endpoint name	Aws.yml -> aws cli installation for ec2 . Aws key,region and cli v2 installation
	Inventory -> Ansible host details (ip,name,port, and public key )
	Playbook.yml -> timezone variable for crontab, http document and directory structure modifications and copying contents ( backup scripts and web configs ) to the ec2 directory . Cron task creation

Wp\_backup.sh - > backup wordpress files to home directory of the EC2 ( compressed and will maintain name format ) , tar files will backup to s3 bucket including RDS db ( wordpress db )  
Backup script is scheduled from ansible on every 8 PM (IST )

