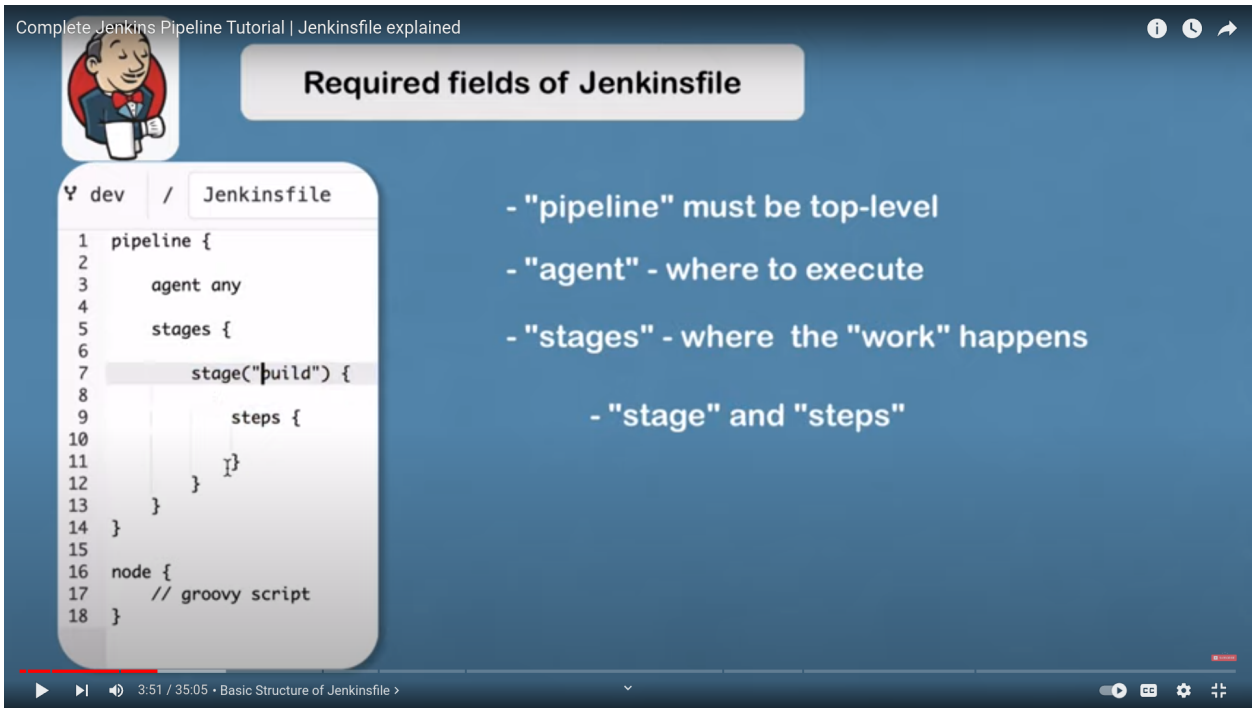
Jenkins

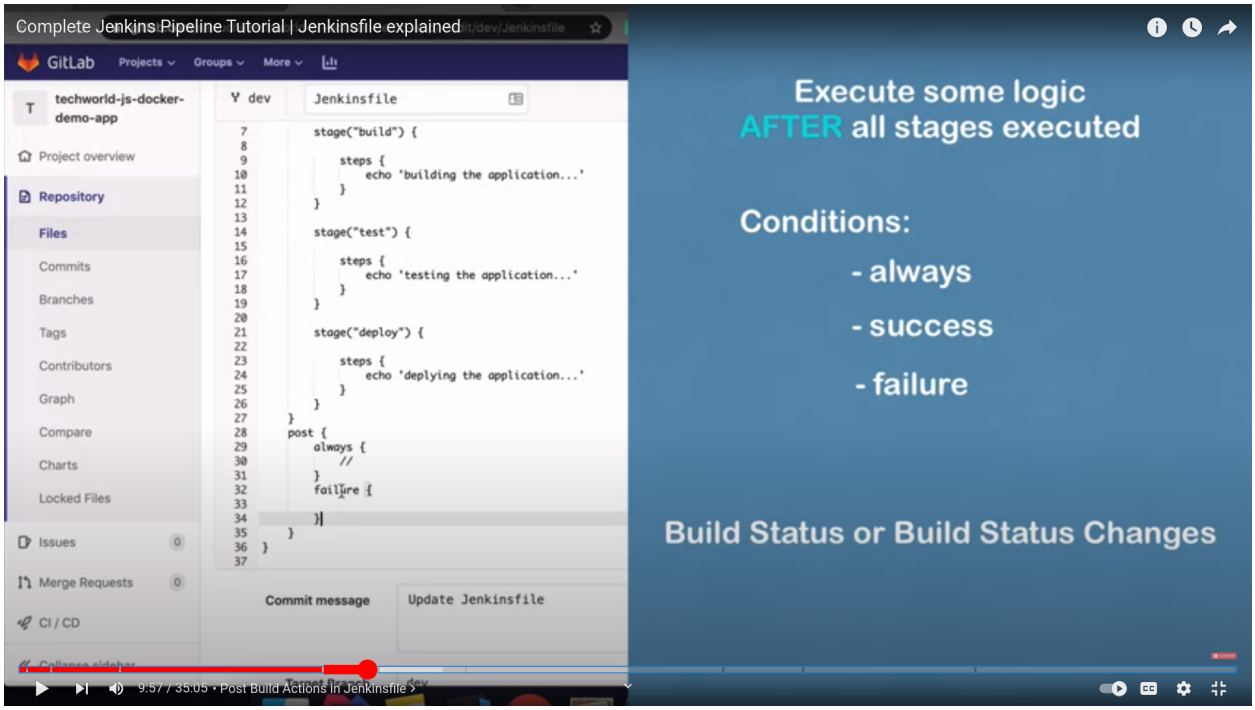
Jenkins 1

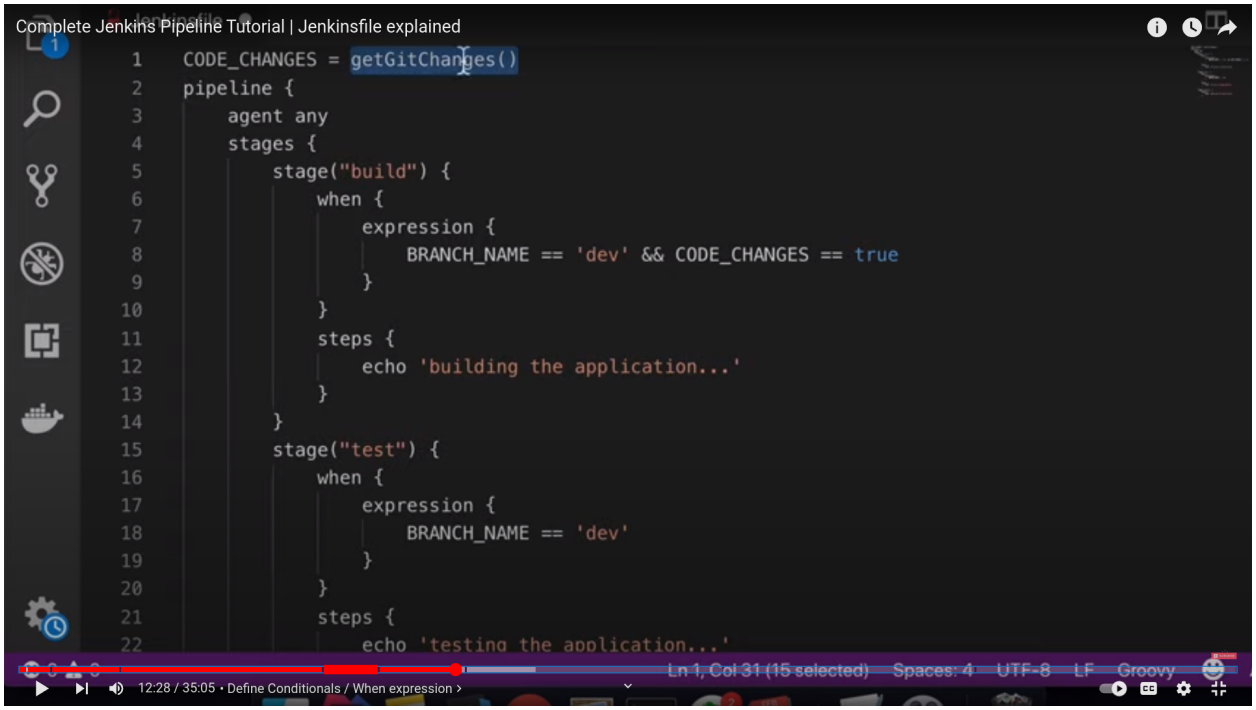
Terraform Architecture 4

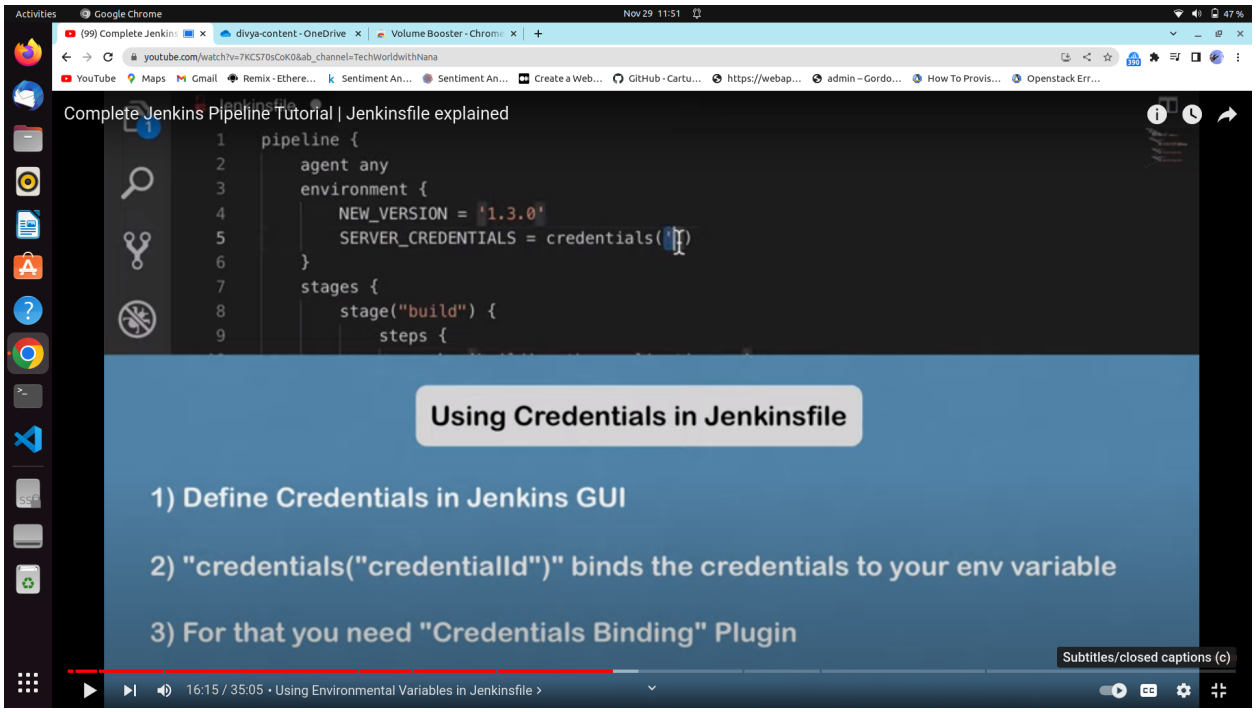
Ansible 10

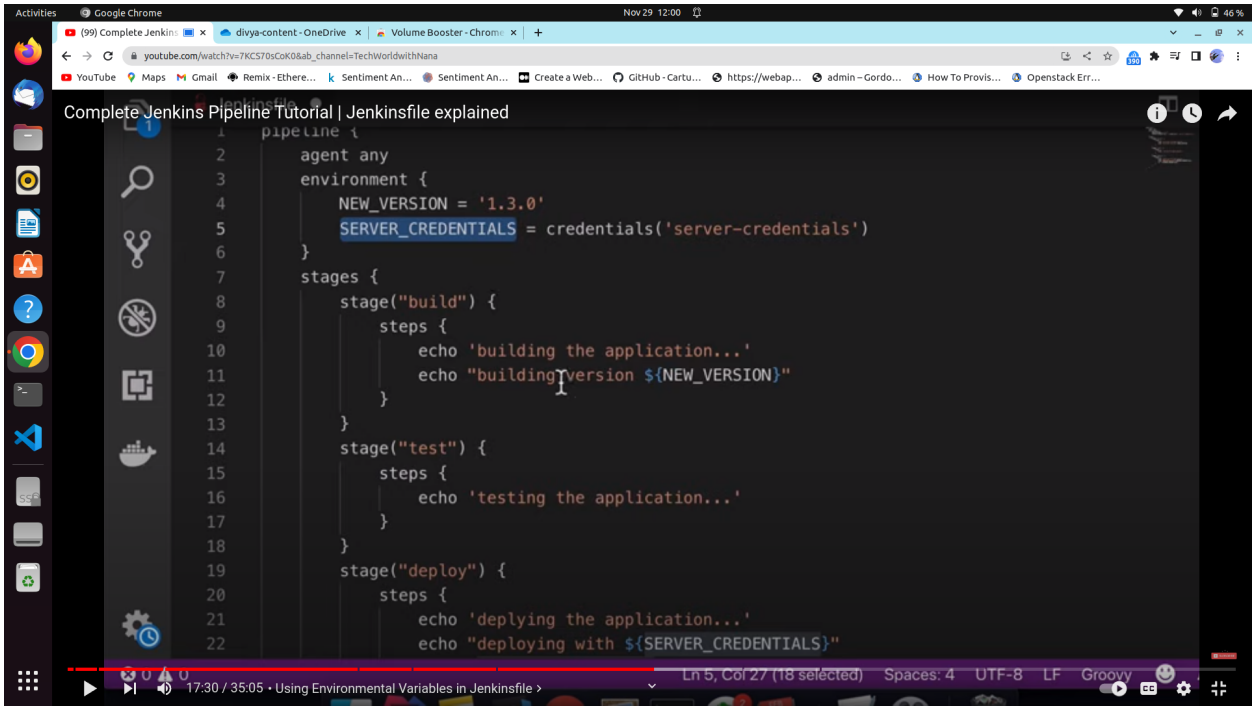
Links 13



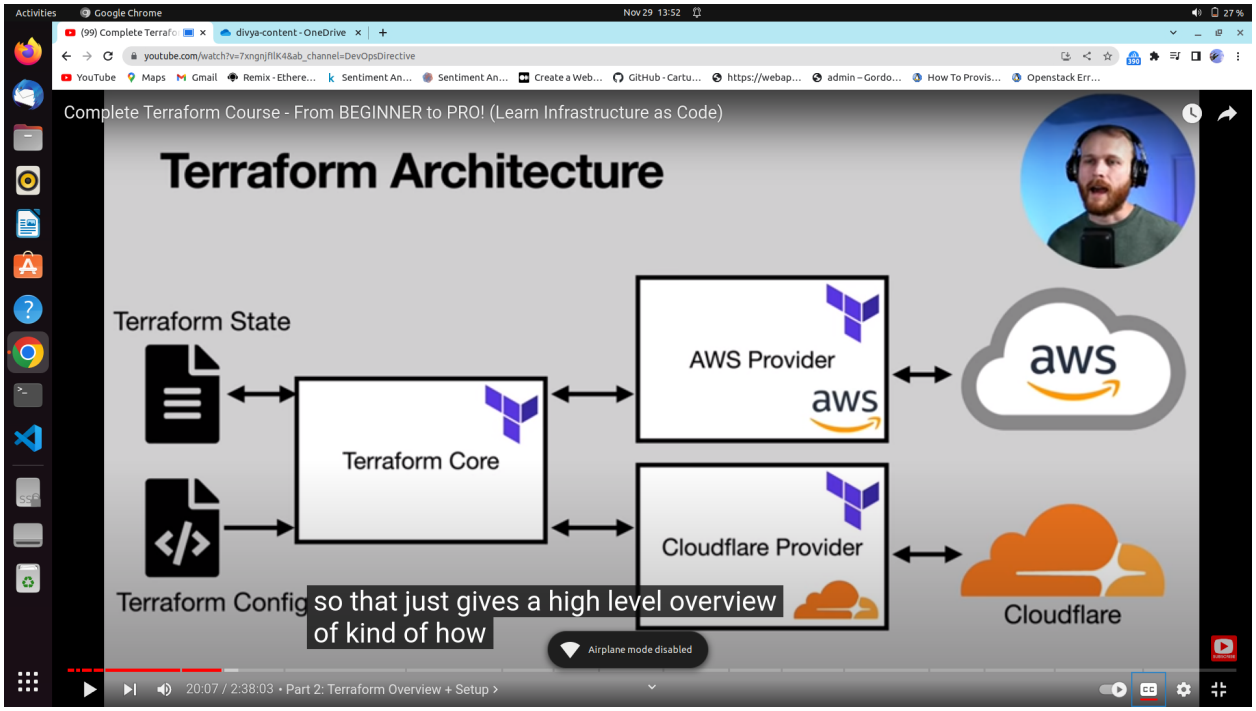

Complete Jenkins Pipeline Tutorial | Jenkinsfile explained
GitLab
techworld-js-docker-demo-app
Project overview
Repository
Files
Commits
Branches
Tags
Contributors
Graph
Compare
Charts
Locked Files
Issues
Merge Requests
CI / CD
dev
Jenkinsfile
stage("build") {
steps {
echo 'building the application...'
}
stage("test") {
steps {
echo 'testing the application...'
}
stage("deploy") {
steps {
echo 'deplying the application...'
always {
failure {
Commit message
Update Jenkinsfile
Execute some logic
AFTER all stages executed
Conditions:
- always
- success
- failure
Build Status or Build Status Changes
9:57 / 35:05 • Post Build Actions in Jenkinsfile


Complete Jenkins Pipeline Tutorial | Jenkinsfile explained
CODE_CHANGES = getGitChanges()
pipeline {
agent any
stages {
stage("build") {
when {
expression {
BRANCH_NAME == 'dev' && CODE_CHANGES == true
}
}
steps {
echo 'building the application...'
}
}
stage("test") {
when {
expression {
BRANCH_NAME == 'dev'
}
}
steps {
echo 'testing the application...'
Ln 1, Col 31 (15 selected) Spaces: 4 UTF-8 LF Groovy
12:28 / 35:05 • Define Conditionals / When expression ›

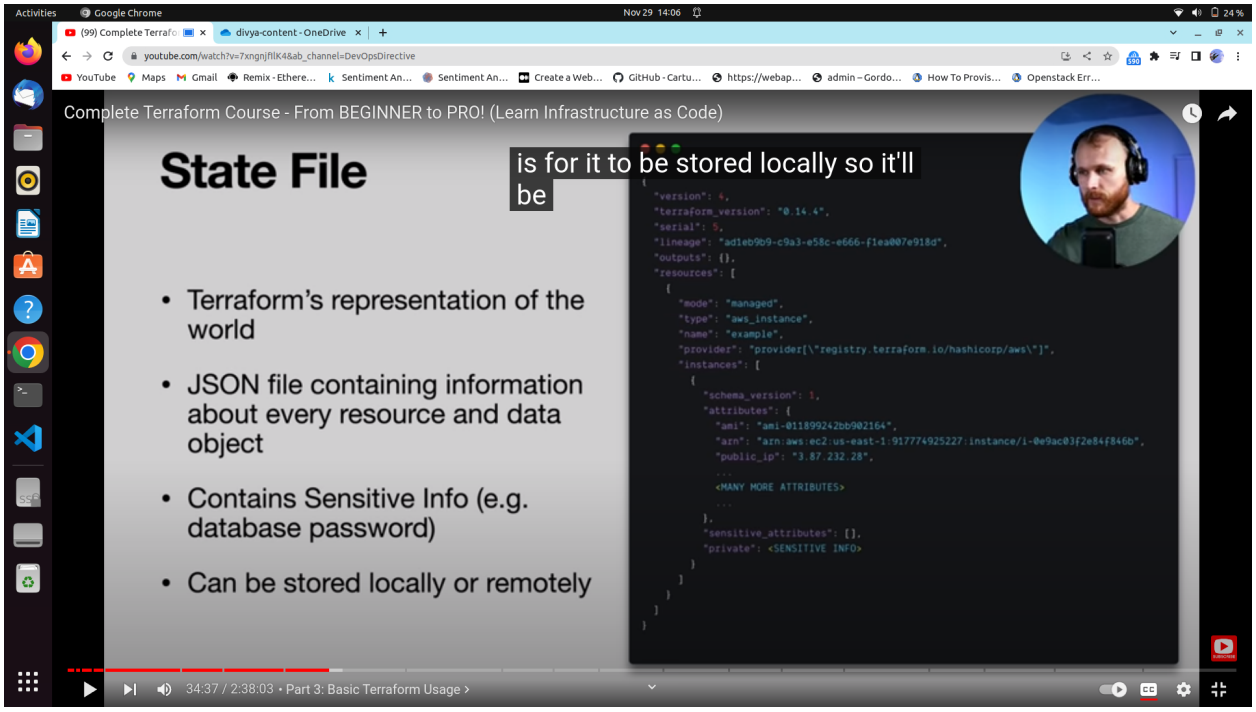

Activities
Google Chrome
Nov 29 11:51
youtube.com/watch?v=7KCS70sCoK0&ab_channel=TechWorldwithNana
Complete Jenkins Pipeline Tutorial | Jenkinsfile explained
pipeline {
agent any
environment {
NEW_VERSION = '1.3.0'
SERVER_CREDENTIALS = credentials('
}
stages {
stage("build") {
steps {
Using Credentials in Jenkinsfile
1) Define Credentials in Jenkins GUI
2) "credentials("credentialId")" binds the credentials to your env variable
3) For that you need "Credentials Binding" Plugin
Subtitles/closed captions (c)
16:15 / 35:05 • Using Environmental Variables in Jenkinsfile ›



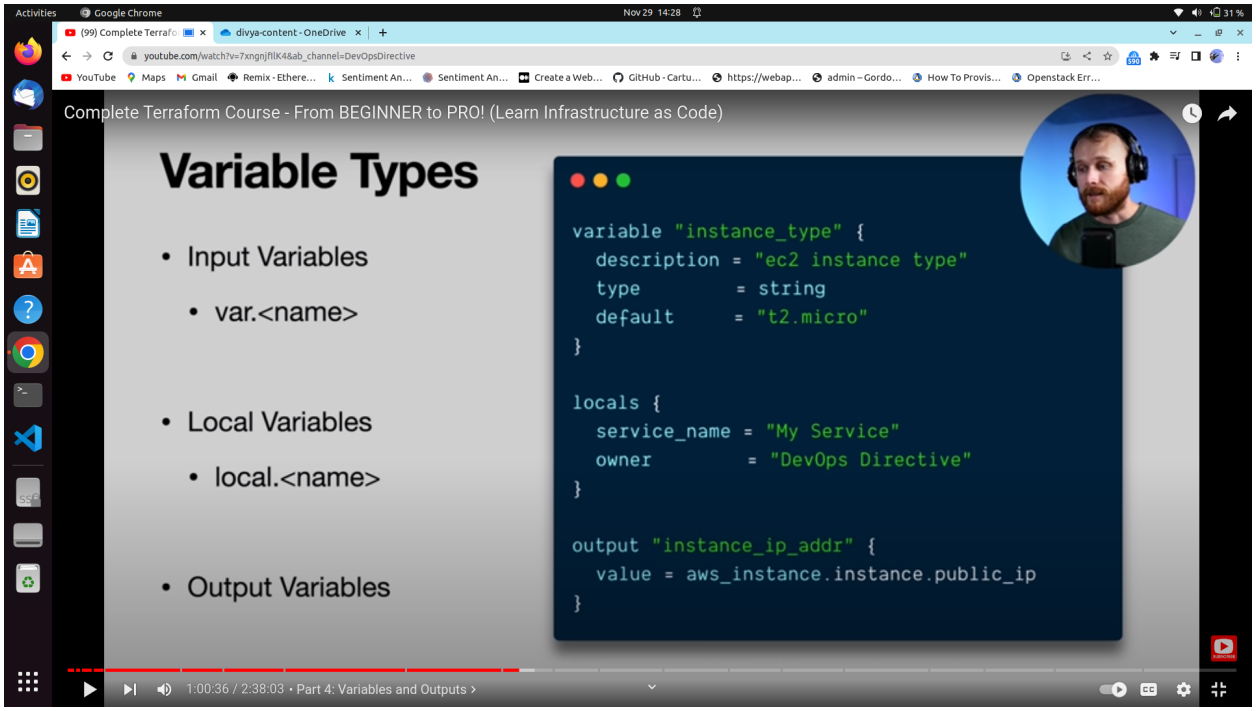
Terraform Architecture



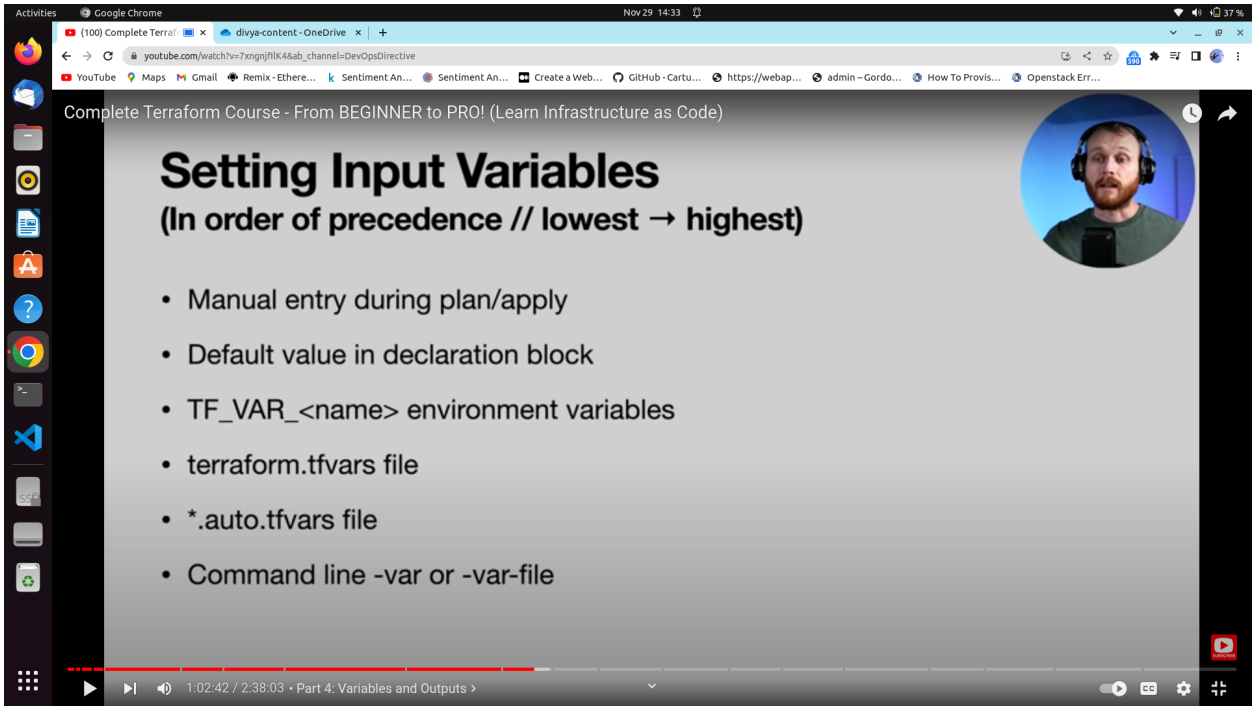
State file

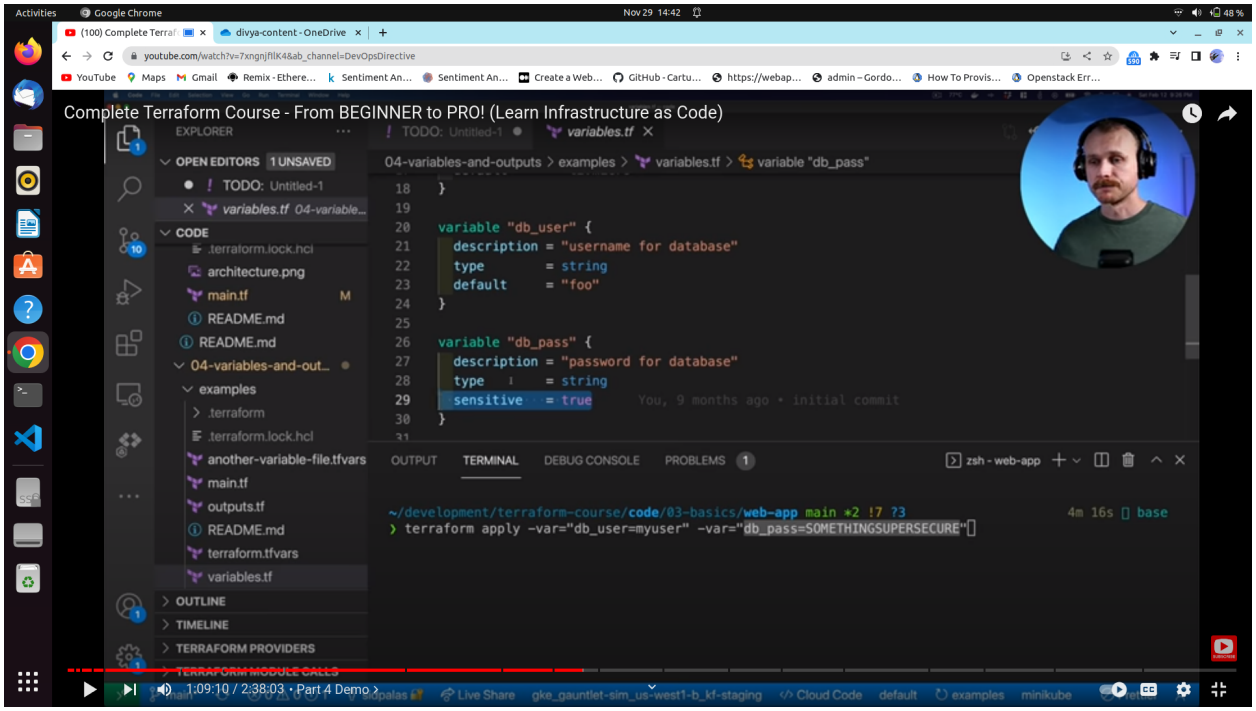


variables

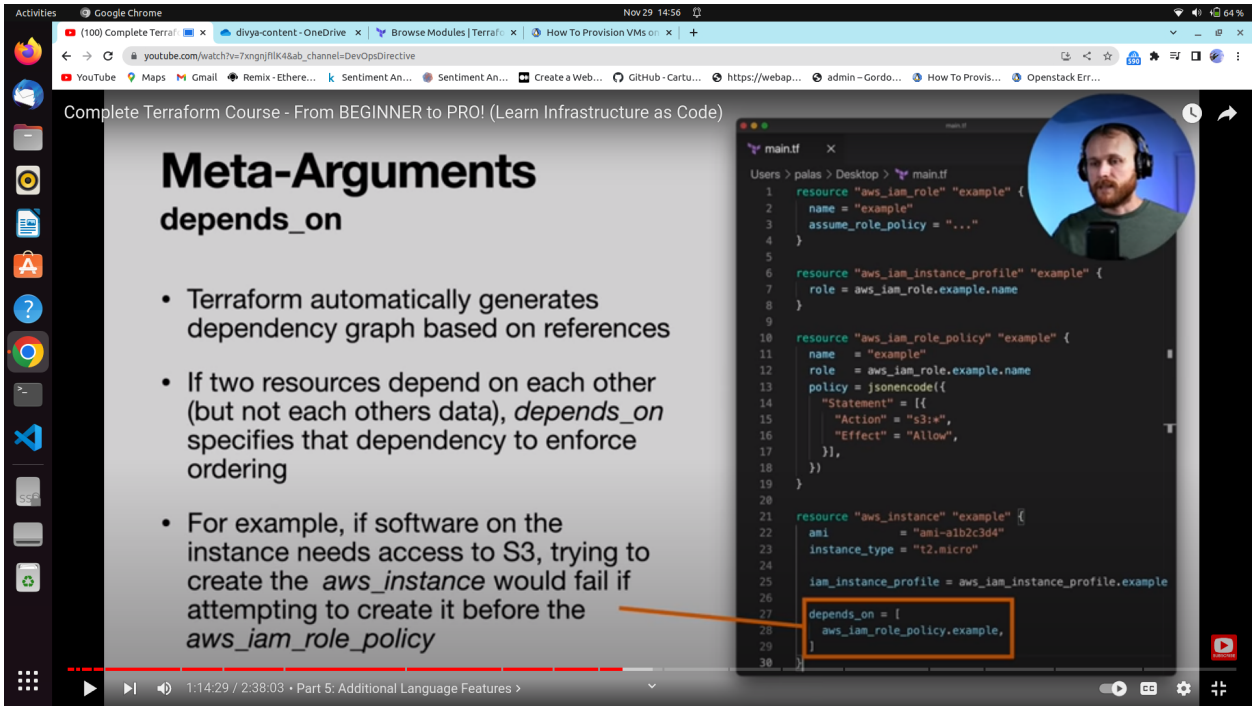


Input variables

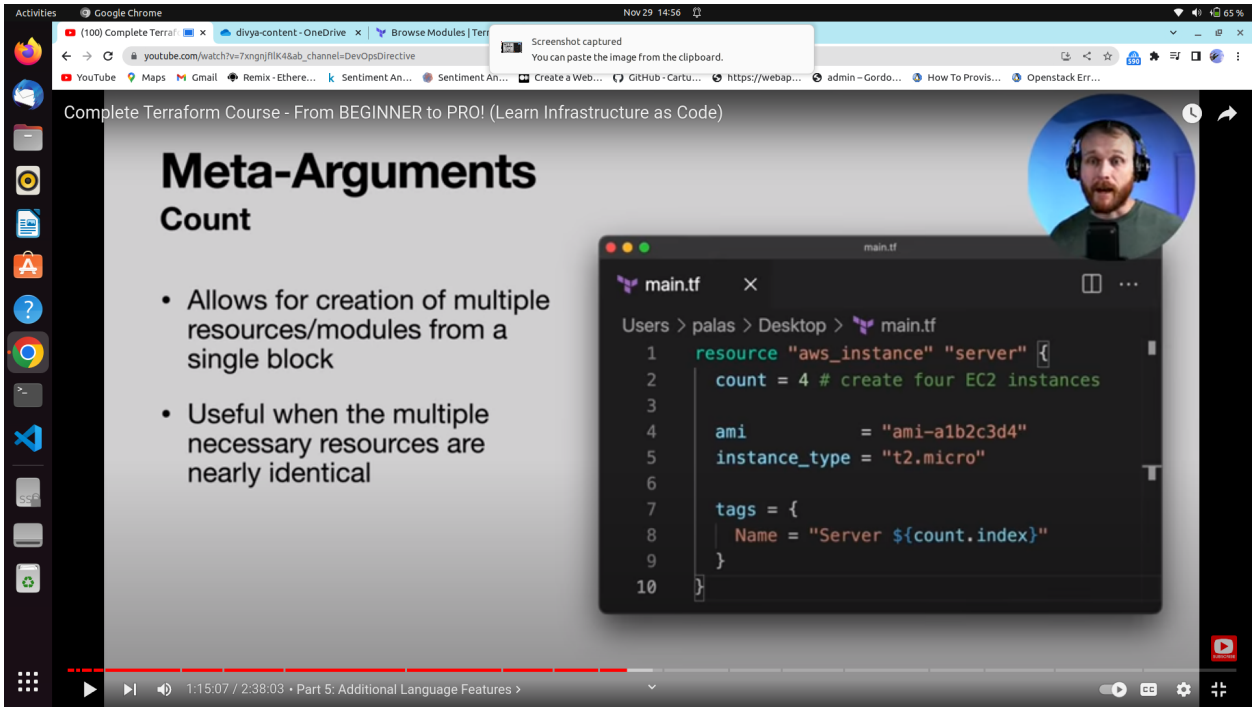

Complete Terraform Course - From BEGINNER to PRO! (Learn Infrastructure as Code)
Setting Input Variables
(In order of precedence // lowest → highest)
• Manual entry during plan/apply
• Default value in declaration block
• TF_VAR_<name> environment variables
• terraform.tfvars file
• *.auto.tfvars file
• Command line -var or -var-file
1:02:42 / 2:38:03 • Part 4: Variables and Outputs ›


Complete Terraform Course - From BEGINNER to PRO! (Learn Infrastructure as Code)
EXPLORER
OPEN EDITORS 1 UNSAVED
TODO: Untitled-1
variables.tf 04-variable...
CODE
.terraform.lock.hcl
architecture.png
main.tf M
README.md
README.md
04-variables-and-out...
examples
.terraform
.terraform.lock.hcl
another-variable-file.tfvars
main.tf
outputs.tf
README.md
terraform.tfvars
variables.tf
OUTLINE
TIMELINE
TERRAFORM PROVIDERS
04-variables-and-outputs › examples › variables.tf › variable "db_pass"
variable "db_user" {
description = "username for database"
type = string
default = "foo"
}
variable "db_pass" {
description = "password for database"
type = string
sensitive = true
}
OUTPUT TERMINAL DEBUG CONSOLE PROBLEMS 1
zsh - web-app
~/development/terraform-course/code/03-basics/web-app main *2 !7 ?3
4m 16s base
› terraform apply -var="db_user=myuser" -var="db_pass=SOMETHINGSUPERSECURE"
1:09:10 / 2:38:03 • Part 4 Demo ›

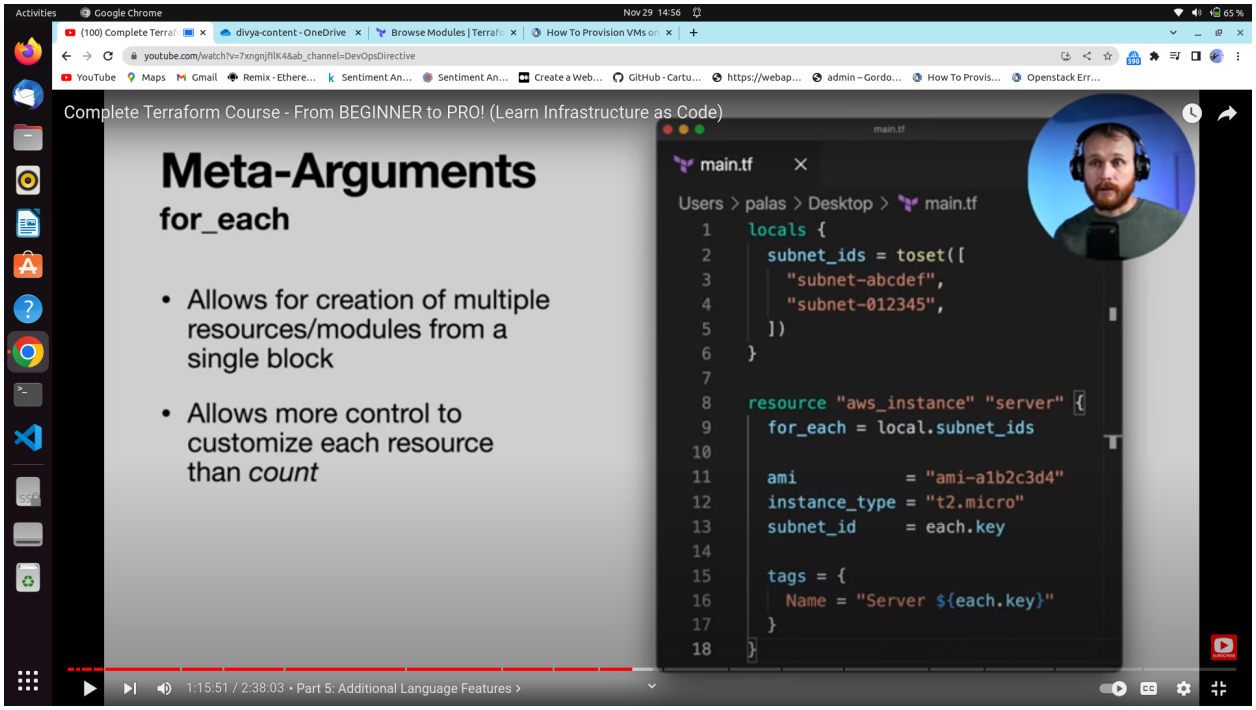
Depends_on



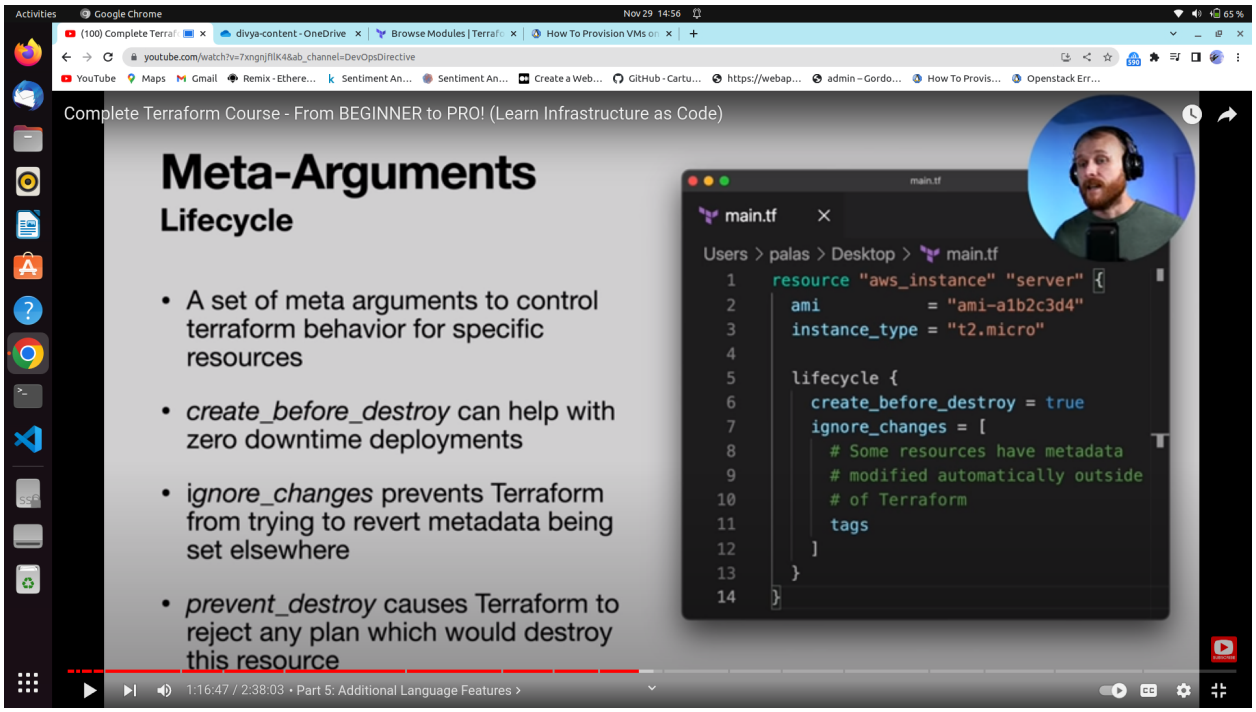
Count



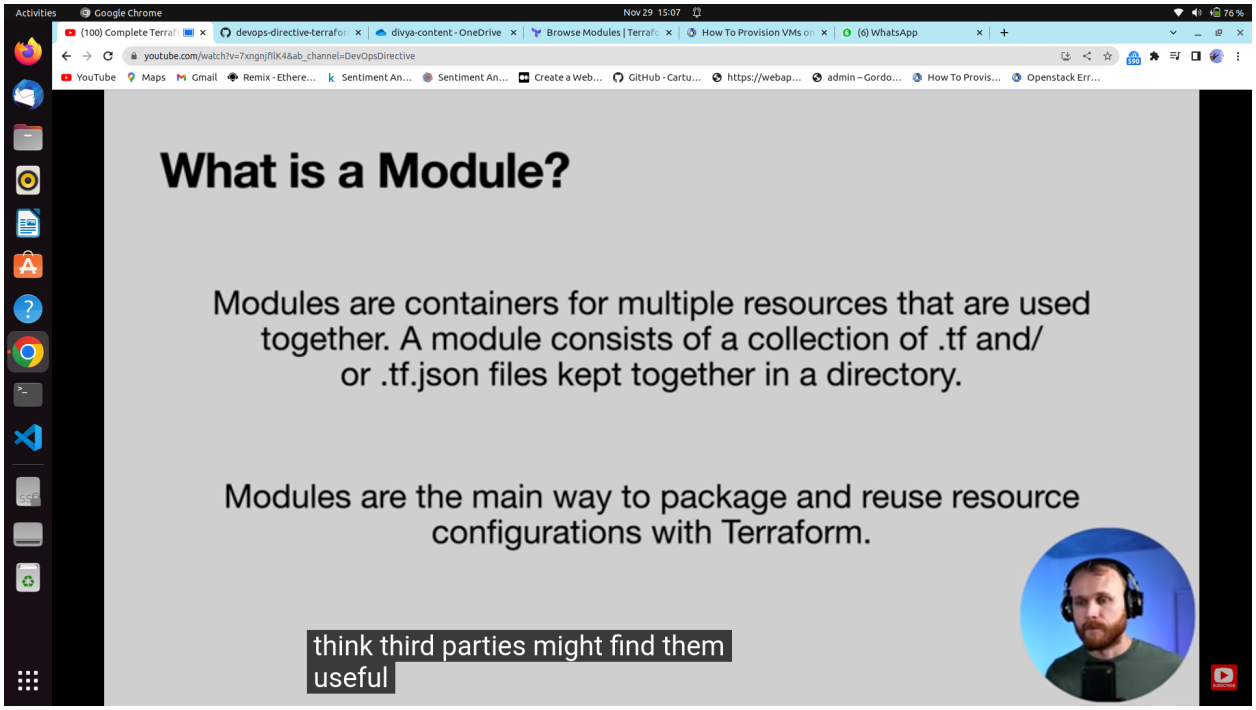
for_each



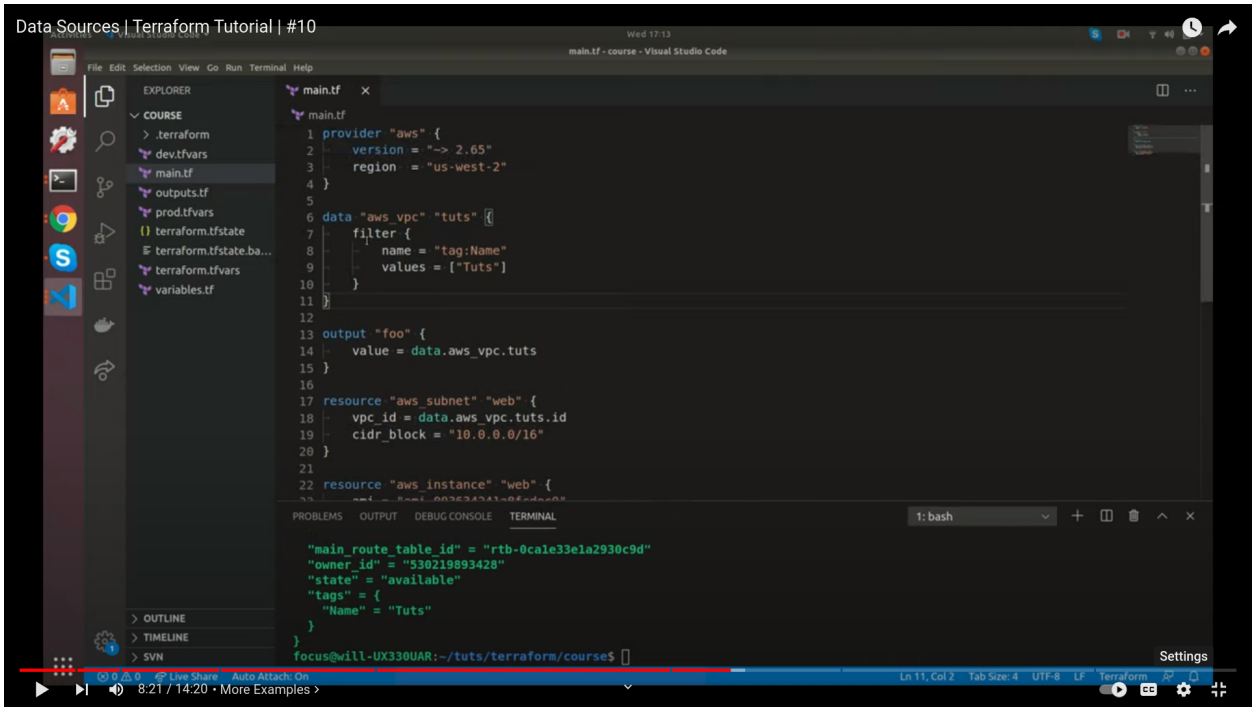
Lifecycle



Modules

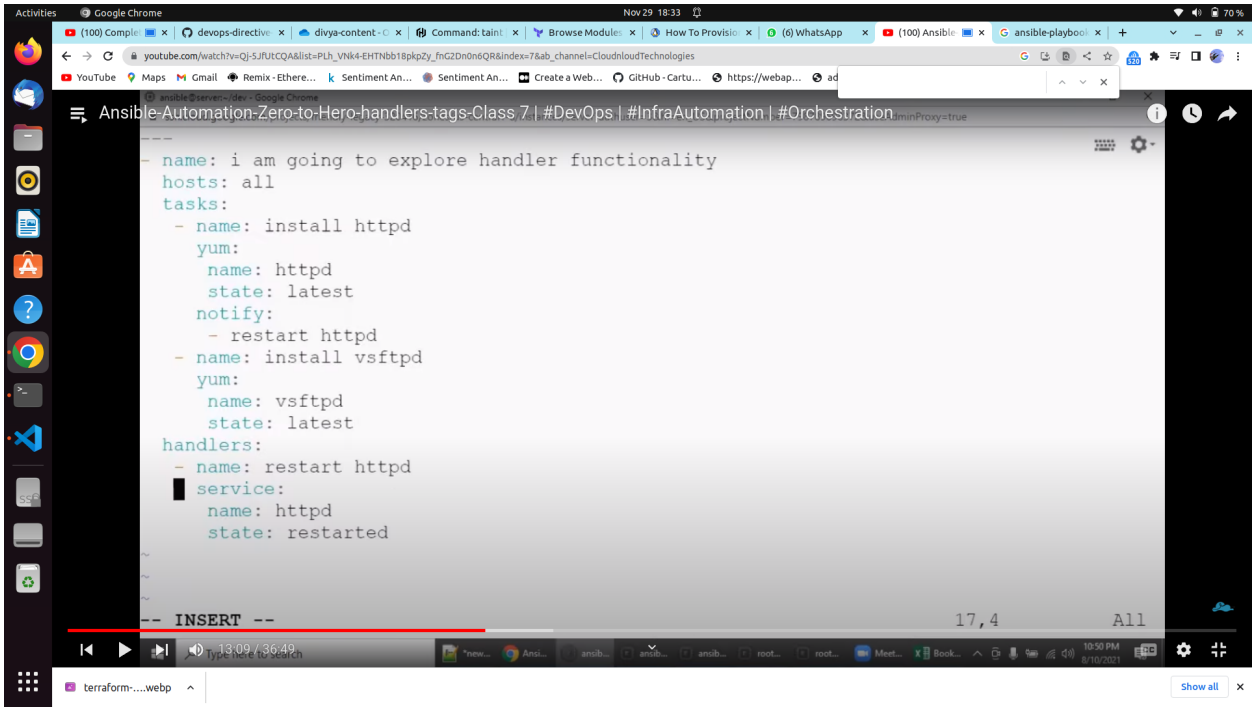

What is a Module?
Modules are containers for multiple resources that are used together. A module consists of a collection of .tf and/ or .tf.json files kept together in a directory.
Modules are the main way to package and reuse resource configurations with Terraform.
think third parties might find them useful

Data block

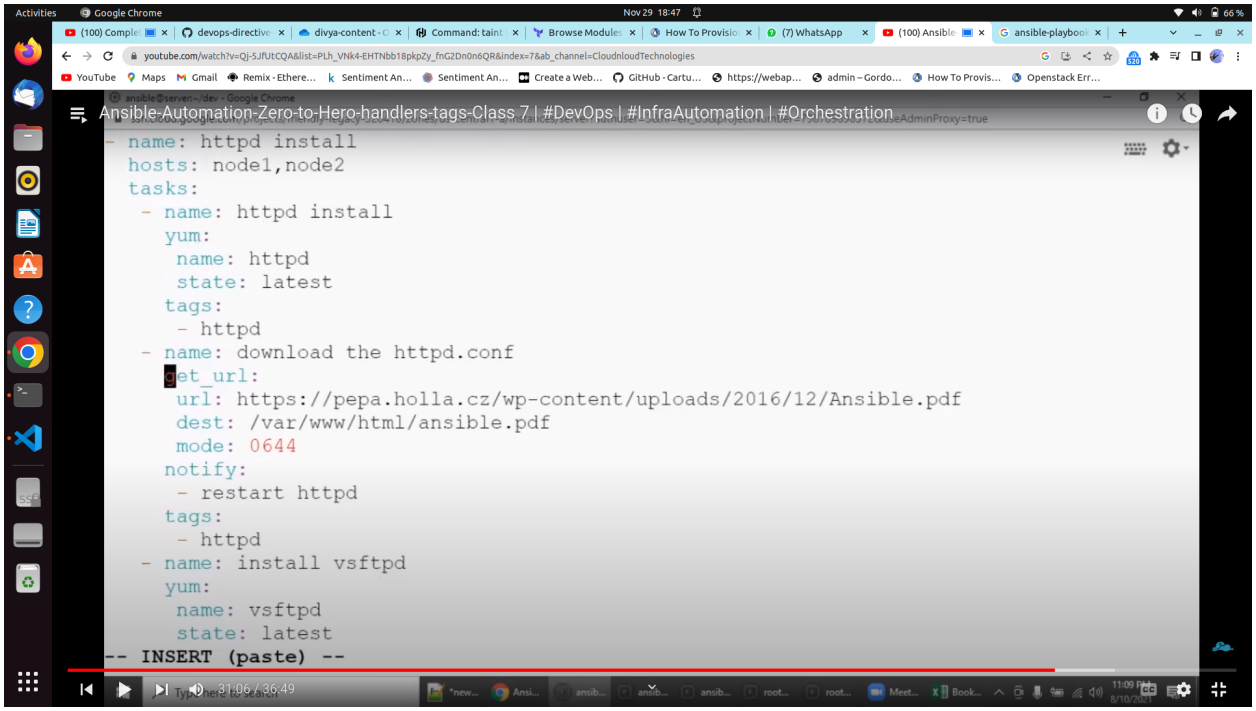

Data Sources | Terraform Tutorial | #10
main.tf - course - Visual Studio Code
EXPLORER
COURSE
.terraform
dev.tfvars
main.tf
outputs.tf
prod.tfvars
terraform.tfstate
terraform.tfstate.ba...
terraform.tfvars
variables.tf
provider "aws" {
version = "~> 2.65"
region = "us-west-2"
}
data "aws_vpc" "tuts" {
filter {
name = "tag:Name"
values = ["Tuts"]
}
}
output "foo" {
value = data.aws_vpc.tuts
}
resource "aws_subnet" "web" {
vpc_id = data.aws_vpc.tuts.id
cidr_block = "10.0.0.0/16"
}
resource "aws_instance" "web" {
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
1: bash
"main_route_table_id" = "rtb-0ca1e33e1a2930c9d"
"owner_id" = "530219893428"
"state" = "available"
"tags" = {
"Name" = "Tuts"
}
}
focus@will-UX330UAR:~/tuts/terraform/course$
OUTLINE
TIMELINE
SVN
Settings
8:21 / 14:20 • More Examples ›

Ansible

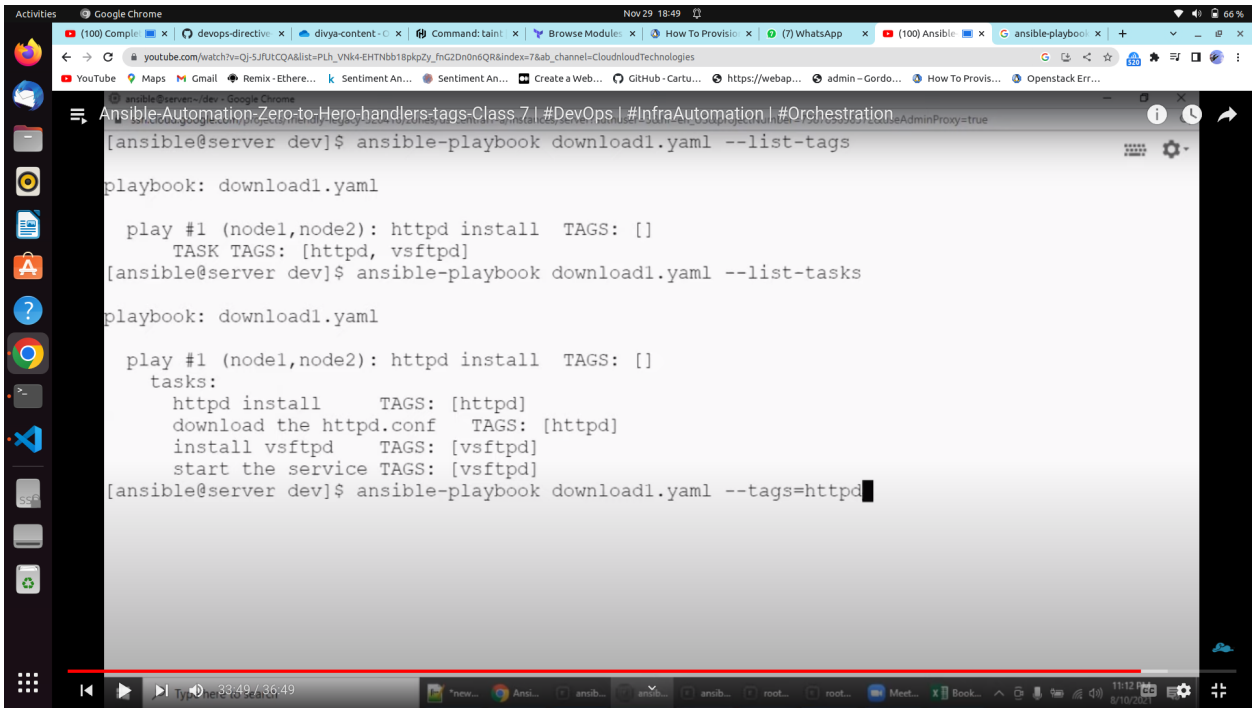
handler



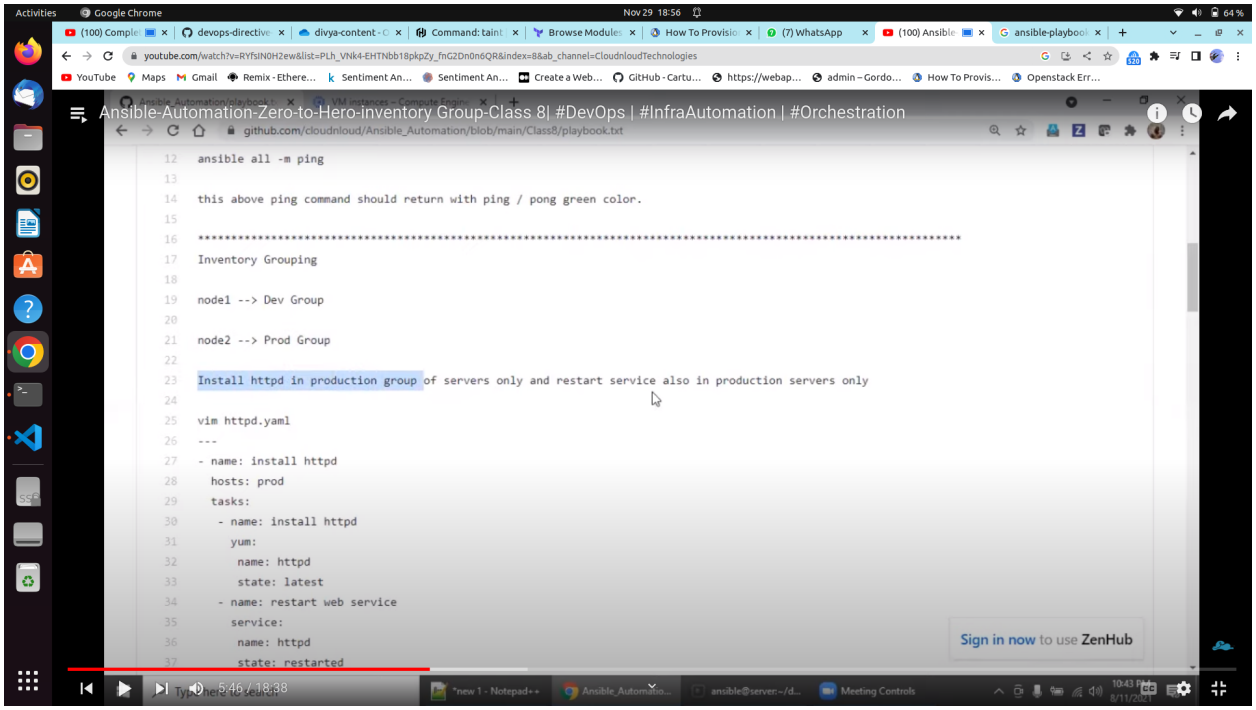
tags



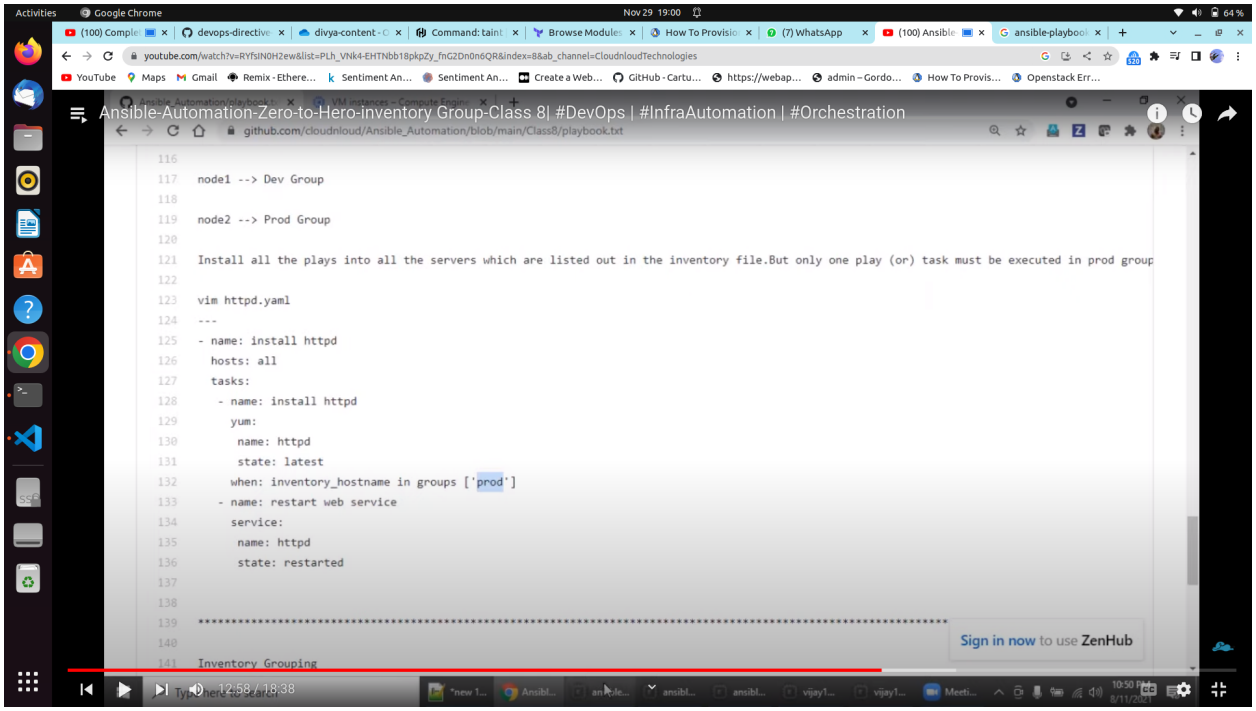
Tags command



groups



When inventory_hostname



Links

https://github.com/ginigangadharan/30-Days-of-Ansible-Bootcamp
https://github.com/cloudnloud/Ansible_Automation