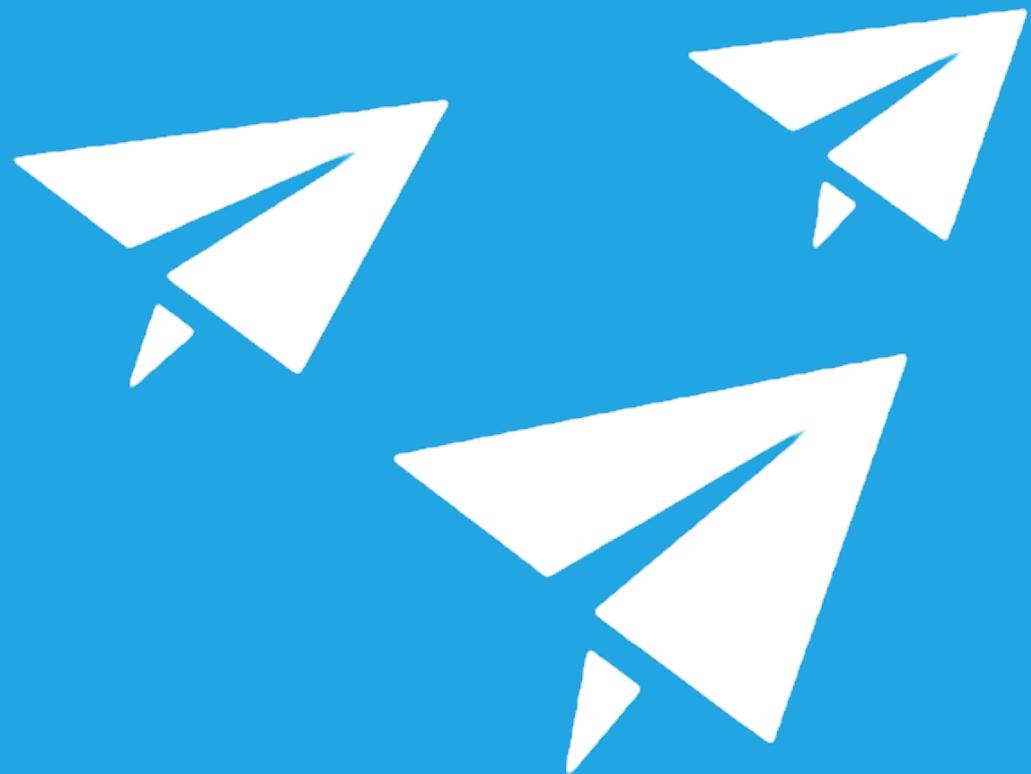


# #8 FORMING CLOUDS: CLOUDFORMATION VS ANSIBLE VS TERRAFORM



# skyscrapers

The Cloud & Ops Experts



# GEERT THEYS

Sales guy @skyscrapers

Still likes to get his hands  
dirty .

- \* [github.com/gtheys](https://github.com/gtheys)
- \* [twitter.com/toadi](https://twitter.com/toadi)
- \* [geerttheys.com](http://geerttheys.com)

# MATTIAS

**CLOUDFORMATION VS  
TERRAFORM VS  
ANSIBLE  
FOR AWS PROVISIONING**

**ALL DIFFERENT TOOLS**

**ALL HAVE THEIR ADVANTAGES**

**AND DISADVANTAGES**

LET'S COMPARE

**SIMPLE SYNTAX?**

# EXAMPLE 1:

Cloudformation code block

# EXAMPLE 2:

```
resource "aws_instance" "webserver" {
  ami = "${var.ami}"
  instance_type = "t2.micro"
  subnet_id = "${element(split("", "", var.subnets), 0)}"
  key_name  = "${var.key_name}"
  security_groups  = ["${var.sg_all}","${aws_security_group.sg_tools.id}"]
  user_data = "#!/bin/bash\n/bin/bash <(/usr/bin/wget -qO-
https://raw.githubusercontent.com/skyscrapers/bootstrap/master/autobootstrap.sh)
-p puppetmaster -h webserver01 -f webserver01.fqdn.com -t \"UTC\""

  root_block_device {
    volume_type = "standard"
    volume_size = "10"
    delete_on_termination = "false"
  }
  ebs_block_device {
    device_name = "/dev/sdb"
    volume_type = "standard"
    volume_size = "40"
    delete_on_termination = "false"
  }
  tags {
    Name = "${var.name}-${var.environment}-tools01"
    Environment = "${var.environment}"
  }
}
```

# EXAMPLE 3:

```
- name: WebServer | Create the WebServer Instance(s)
  local_action:
    module: ec2
    region: "{{ vpc_region }}"
    group: "{{ web_security_groups[0].sg_name }}"
    keypair: "{{ key_name }}"
    instance_type: "{{ web_instance_type }}"
    image: "{{ imgae_id.ami }}"
    vpc_subnet_id: "{{ item }}"
    assign_public_ip: True
    wait: True
    wait_timeout: 600
    user_data: |
      #!/bin/sh
      sudo apt-get install nginx -y
  instance_tags:
    Name: "{{ vpc_name }}_WEB_Instance"
    Environment: "{{ ENV }}"
    Role: "{{ server_role }}"
    Application: "{{ application }}"
  with_items:
    - "{{ public_subnet_1 }}"
    - "{{ public_subnet_2 }}"
  register: web
```

**WHICH ONE WAS THE EASIEST TO READ?**



# EASY TO INSTALL? MACOSX HAS THE FANTASTIC BREW:

- » brew install awscli
- » brew install terraform
- » brew install ansible

Warning: None are up to date!

Up to date versions and on  
linux use pip install

# SAFE TO USE?

# PERFORMANT?

# HOW DO THEY KEEP STATE?

**DO I FEEL SAFE**

GOOD DEPLOYING MORE  
ADVANCED  
INFRASTRUCTURE?

# PERFORMANCE?

# SUPPORT?

**DO YOU LOOK COOL  
WHEN USING IT?**

# DO I WANT TO USE IT?

# DO WE RECOMMEND 1?

