Atlantis 와 Infracost 로 AWS 비용 예상하기

유정열 / 당근마켓 SRE팀, AWS ML Hero

유정열 (nalbam, bruce)

🥕 당근마켓 SRE팀

AWS Machine Learning Hero

AWS DeepRacer Championship 2019,2020 Finalist

https://www.terraform.io

Terraform

- Infrastructure as Code (IaC)
- Code, Plan, Apply
- Terraform CLI
- Terraform Cloud

https://www.runatlantis.io

Atlantis Workflow

1. Open Terraform PR
2. Atlantis automatically run `terraform plan` and comment back result
3. Someone PR review
4. You comment `atlantis apply`
5. Atlantis run `terraform apply`
6. Merge PR

nalbam-bot commented 8 minutes ago · Member

Ran Plan for dir: `demo/7-eks` workspace: `default`

▼ Show Output

```
Terraform used the selected providers to generate the following execution
plan. Resource actions are indicated with the following symbols:
+ create
~ update in-place
- destroy

Terraform will perform the following actions:

  # module.workers-v1.aws_autoscaling_group.worker[0] will be updated in-place
~ resource "aws_autoscaling_group" "worker" {
        id                         = "eks-demo-workers-v1-2022100406503934660000001b"
        name                       = "eks-demo-workers-v1-2022100406503934660000001b"
        # (24 unchanged attributes hidden)

      ~ launch_template {
          ~ id      = "lt-0092ad7e60f717e9d" -> (known after apply)
            name    = "eks-demo-workers-v1-2022100407061850600000000001"
            # (1 unchanged attribute hidden)
        }

        # (10 unchanged blocks hidden)
    }

  # module.workers-v1.aws_launch_template.worker[0] will be destroyed
  # (because index [0] is out of range for count)
- resource "aws_launch_template" "worker" {
      - arn                        = "arn:aws:ec2:ap-northeast-2:082867736673:launch-template/lt-0092ad7e60f717
      - default_version            = 1 -> null
      - description                = "" -> null
```

```
Plan: 1 to add, 1 to change, 1 to destroy.
```

Infracost

Love your cloud bill! 💰 📉

Cloud cost estimates for Terraform in pull requests

https://www.infracost.io

nalbam-bot commented 15 minutes ago   Member

💰 Infracost estimate: **monthly cost will decrease by $188 (-40%)** 📉

Project	Previous	New	Diff
opspresso/terraform-env-demo/demo/7-eks/default.json	$473	$284	-$188.34 (-40%)

▶ **Infracost output**

Is this comment useful? Yes, No, Other

nalbam-bot commented 16 minutes ago · Member

💰 Infracost estimate: **monthly cost will decrease by $188 (-40%)** 📉

Project	Previous	New	Diff
opspresso/terraform-env-demo/demo/7-eks/default.json	$473	$284	-$188.34 (-40%)

▼ **Infracost output**

```
Project: opspresso/terraform-env-demo/demo/7-eks/default.json

~ module.workers-v1.aws_autoscaling_group.worker[0]
  -$188 ($307 → $119)

    - module.workers-v1.aws_launch_template.worker[0]

        - Instance usage (Linux/UNIX, on-demand, c6i.large)
          -$280

        - EC2 detailed monitoring
          -$8.40

        - block_device_mapping[0]

            - Storage (general purpose SSD, gp3)
              -$18.24

    + module.workers-v1.aws_launch_template.worker_spot[0]

        + Instance usage (Linux/UNIX, spot, c6i.large)
          +$91.98

        + EC2 detailed monitoring
          +$8.40

        + block_device_mapping[0]

            + Storage (general purpose SSD, gp3)
              +$18.24

Monthly cost change for opspresso/terraform-env-demo/demo/7-eks/default.json
Amount:  -$188 ($473 → $284)
Percent: -40%


_____

Key: ~ changed, + added, - removed
```

DEMO

감사합니다.