Deployment Type Documentation

By:

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Ramped Deployment:

- 1. Create a instance with version-1 of application
- 2. Create a AMI for this (version-1 application) instance
- 3. Create a target group and add version-1 application instance and then attach it to ALB
- 4. Now create Launch configuration using version-1 application AMI
- 5. Using version-1 application launch configuration create ASG
- Now create R53 hosted domain and record, using alias to ALB with simple routing policy.
- 7. Again create a instance with version-2 of application
- 8. Create a AMI for this (version-2 application) instance
- 9. Now create Launch configuration using version-2 application AMI
- 10. Using version-2 application launch configuration create ASG
- 11. Now gradually remove IPs of version-1 instance from target group and simultaneously add IPs of version-2 instance in target group. Adding and removing the IP one by one . At last target group will have only version-2 instance IP.

Blue-Green Deployment

1. Create two ec2 to instances with user data given below one named green and other named blue
======= blue deployment
!/bin/bash
sudo apt update
sudo apt install apache2 -y
cd /var/www/html
rm index.html
echo " <html><body><h1>Blue deployment</h1>body></body></html> " > index.html
======= green deployment
!/bin/bash
sudo apt update
sudo apt install apache2 -y
cd /var/www/html
rm index.html
echo " <html><body><h1>Green deployment</h1></body></html> " > index.html
2. Create two target groups on port 80 using one for each instance blue BLUETG and green GREEENTG.

- 3. Create a load balancer using BLUETG with 100% weight and when we browse DNS of Load balancer we can see the html page for blue instance.
- 4. Now select the load balancer on console and go to listener section and select the listener and edit option.

- 5. In the edit window add one more listener i.e. GREENTG and give weight of 20 % to it and remaining 80% to previous BLUETG.
- 6. Again browse the DNS and now we can see 20% of the load going to Green instance html page.
- 7. Similarly we need to change the weights on both target groups as follows

8. BLUETG: 100% GREENTG: 0%

BLUETG: 0% GREENTG: 100%

In the above manner we can deploy Blue – Green Deployment

A/B TESTING:

- 1. Create a instance with version-A of application
- 2. Create a AMI for this (version-A application) instance
- 3. Create a target group "targetA" and add version-A application instance and then attach it to ALB- "ALB-vA"
- 4. Now create Launch configuration using version-A application AMI
- 5. Using version-A application launch configuration create ASG
- 6. Now create R53 hosted domain and record, using alias to ALB with geolocation routing policy and mark region as Asia
- 7. Follow step 1 to 6 to create version B and mark region as Australia in route 53 record.
- 8. Now browse the domains, after successful testing of version-B route the traffic of version A to version B, by changing record of version-A and edit the load balancer as ALB-B in that record.

Another way using application load balancer ,using query string feature of target groups under ALB by inserting rule into the listener.