EBS Deployment Policies



Elastic Beanstalk supports several options for processing deployments:

- All at once
- Rolling
- Rolling with additional batch
- Immutable



All at Once Deployment Policy



All at Once Deployment Updates:

- Deploys the new version to all instances simultaneously
- All of your instances are out of service while the deployment takes place
- You will experience an outage while the deployment is taking place - not ideal for mission-critical production systems
- If the update fails, you need to roll back the changes by re-deploying the original version to all your instances

Rolling Deployment Policy



Rolling Deployment Updates:

- Deploys the new version in batches
- Each batch of instances is taken out of service while the deployment takes place
- Your environment capacity will be reduced by the number of instances in a batch while the deployment takes place
- Not ideal for performance sensitive systems
- If the update fails, you need to perform an additional rolling update to roll back the changes

Rolling with Additional Batch Policy



Rolling with Additional Batch Deployment Updates:

- Launches an additional batch of instances
- Deploys the new version in batches
- Maintains full capacity during the deployment process



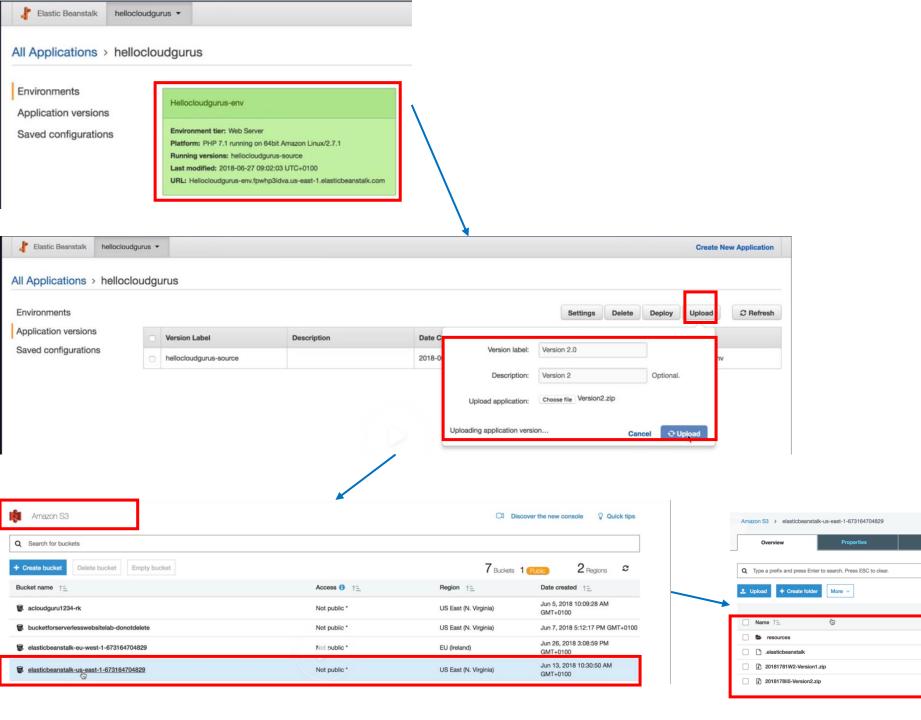
 If the update fails, you need to perform an additional rolling update to roll back the changes

Immutable Deployment Policy



Immutable Deployment Updates:

- Deploys the new version to a fresh group of instances in their own new autoscaling group
- When the new instances pass their health checks, they are moved to your existing auto scaling group; and finally, the old instances are terminated
- Maintains full capacity during the deployment process
- The impact of a failed update is far less, and the rollback process requires only terminating the new auto scaling group
- Preferred option for Mission Critical production systems



US East (N. Virginia) 2

Storage class 1=

Standard

Standard

Standard

Last modified ↑=

Jun 26, 2018 5:20:15 PM GMT+0100

Jun 27, 2018 8:58:24 AM GMT+0100

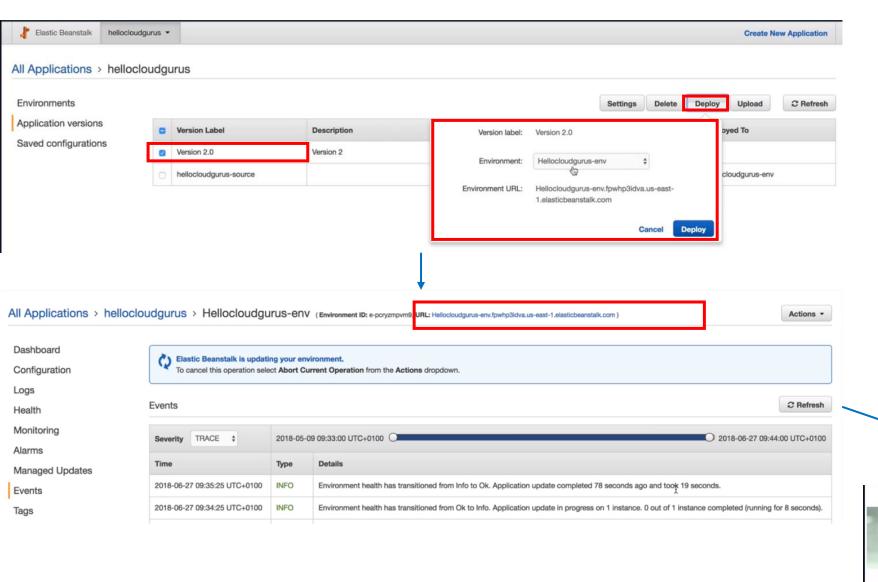
Jun 27, 2018 9:31:22 AM GMT+0100

Size ↑=

0 B

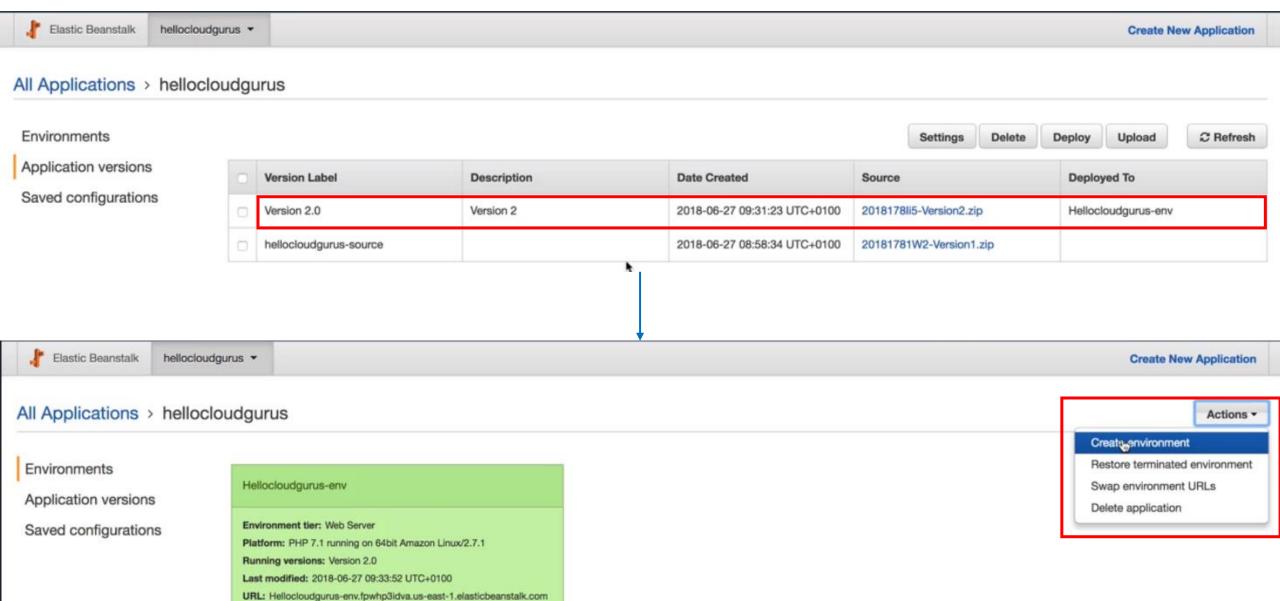
2.0 MB

Viewing 1 to 4









Updating Elastic Beanstalk Exam Tips



- Remember the 4 different deployment approaches:
 - All at Once
 - Service interruption while you update the entire environment at once
 - To roll back, perform a further all at All at Once upgrade

Rolling

- Reduced capacity during deployment
- To roll back, perform a further rolling update

Rolling with Additional Batch

- Maintains full capacity
- To roll back, perform a further rolling update

Immutable

- Preferred option for mission critical production systems
- Maintains full capacity
- To roll back, just delete the new instances and autoscaling group