Ask Django

AWS Elastic Beanstalk 시작하기 - EB CLI

EB CLI를 통한 배포

- 이전 웹콘솔 EB배포를 CLI 인터페이스로 배포 진행

주요 용어

- 애플리케이션 (Application) : 다수 배포환경을 담는 컨테이너

- 배포환경 (Environment) : 애플리케이션 배포환경

  - Web Server Environment

  - Worker Environment

- 애플리케이션 버전 (Application Versions)

  - 애플리케이션 배포 히스토리

  - 언제라도 지정 버전으로 배포환경에 배포 가능 (롤백)

장고 프로젝트 확인

이전 웹콘솔 배포 EP에서 다뤘던 내용

- requirements.txt

- settings : DJANGO_SETTINGS_MODULE

  - ALLOWED_HOSTS

  - STATIC_URL, STATIC_ROOT

- .ebextensions/options.config 확인

  - container_commands

  - optins_settings

    - aws:elasticbeanstalk:application:environment: - 환경변수 목록

    - aws:elasticbeanstalk:container:python: - 파이썬 설정

    - aws:elasticbeanstalk:container:python:staticfiles: - apache웹서버 static 설정

EB CLI 설치 [#doc](#)

Elastic Beanstalk Command Line Interface

쉘> pip3 install --upgrade awsebcli

EB CLI 를 쓰기 위해 ACCESS/SECRET KEY가 필요합니다.

관리자 계정의 Key는 전지전능해서 너무 위험해요. :-(

IAM [1] 유저에게 Beanstalk 권한 [#doc](#) 만 부여해봅시다.

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[1] IAM (Identity and Access Management) : http://docs.aws.amazon.com/ko_kr/IAM/latest/UserGuide/introduction.html

AWS IAM 유저 생성 <u>#doc</u>

- **ebdeploy** 그룹에 "AWS Elastic **Beanstalk Full Access**" 권한 부여

  - 그룹명은 편하신 것으로 ~ :D

- **ebuser** IAM 유저 생성

  - Access type: "Programmatic access"

  - ebdeploy 그룹 지정

  - 유저명은 편하신 것으로 ~ :D

- ebuser의 **ACCESS/SECRET KEY** 복사

키 등록

~/.aws/config 경로

```
[profile eb-cli]
aws_access_key_id = MY_AWS_ACCESS_KEY_ID
aws_secret_access_key = MY_AWS_SECRET_ACCESS_KEY
```

eb 명령 시에 등록된 키가 없으면, 키 입력을 요청합니다.

기본 명령

- **eb init** : EB 프로젝트 초기화 및 AWS에 새 EB 애플리케이션 생성

- **eb create 환경명** : 새 환경 생성 및 배포

- eb status [환경명] : 환경 내역 출력

- **eb deploy [환경명]** : 재배포

- eb deploy [환경명] --version "배포할 애플리케이션 버전 레이블" : 지정 버전으로 재배포

- eb open [환경명] : 웹 페이지 열기

- eb appversion [#doc](#doc) : 애플리케이션 버전 리스트/관리

- eb console [환경명] : 환경 관리콘솔 웹페이지 열기

- **eb terminate [환경명]** : 환경 종료/삭제하기

eb init

EB 프로젝트 초기화 및 AWS에 새 EB 애플리케이션 생성

쉘> eb init

항목	입력
region	10) ap-northeast-2 : Asia Pacific (Seoul)
application name	대개 프로젝트명
platform	1) Python 3.4
ssh setup	n

eb create

Environment 생성 및 배포

```
쉘> eb create 생성할환경이름

WARNING: You have uncommitted changes.
Creating application version archive "app-a6bd-170414_163711".
Uploading helloeb1/app-a6bd-170414_163711.zip to S3. This may take a while.
Upload Complete.
Environment details for: helloeb1
  Application name: helloeb1
  Region: ap-northeast-2
  Deployed Version: app-a6bd-170414_163711
  Environment ID: e-pq2x4ac3gp
  Platform: arn:aws:elasticbeanstalk:ap-northeast-2::platform/Python 3.4 running on 64bit Amazon Linux/2.3.3
  Tier: WebServer-Standard
  CNAME: UNKNOWN
  Updated: 2017-04-14 07:37:13.413000+00:00
```

```
Printing Status:
INFO: createEnvironment is starting.
INFO: Using elasticbeanstalk-ap-northeast-2-095307090881 as Amazon S3 storage bucket for environment data.
INFO: Environment health has transitioned to Pending. Initialization in progress (running for 3 seconds). There are no instances.
INFO: Created security group named: sg-7a803912
INFO: Created load balancer named: awseb-e-p-AWSEBLoa-1RBG3GOBTY5MB
INFO: Created security group named: awseb-e-pq2x4ac3gp-stack-AWSEBSecurityGroup-OSUDDVN51DPP
INFO: Created Auto Scaling launch configuration named: awseb-e-pq2x4ac3gp-stack-AWSEBAutoScalingLaunchConfiguration-8PDDH4WXV50X
INFO: Added instance [i-07018d09d2d53ee16] to your environment.
INFO: Created Auto Scaling group named: awseb-e-pq2x4ac3gp-stack-AWSEBAutoScalingGroup-1BZJBORS6PT7P
INFO: Waiting for EC2 instances to launch. This may take a few minutes.
INFO: Created Auto Scaling group policy named: ...
INFO: Created Auto Scaling group policy named:  ...
INFO: Created CloudWatch alarm named: awseb-e-pq2x4ac3gp-stack-AWSEBCloudwatchAlarmLow-1ULM3JWHHSYLX
INFO: Created CloudWatch alarm named: awseb-e-pq2x4ac3gp-stack-AWSEBCloudwatchAlarmHigh-RMLZYU51H0G0
INFO: Successfully launched environment: helloeb1
```

eb status

환경 내역 출력

```
쉘> eb status

Environment details for: helloeb1
  Application name: helloeb1
  Region: ap-northeast-2
  Deployed Version: app-a6bd-170414_163711
  Environment ID: e-pq2x4ac3gp
  Platform: arn:aws:elasticbeanstalk:ap-northeast-2::platform/Python 3.4 running on 64bit Amazon Linux/2.3.3
  Tier: WebServer-Standard
  CNAME: helloeb1.ztbve2getx.ap-northeast-2.elasticbeanstalk.com
  Updated: 2017-04-14 07:42:23.616000+00:00
  Status: Ready
  Health: Green
```

eb deploy

재배포

- `git archive` 명령으로 zip파일 생성해서 배포 수행

eb deploy --version "버전 레이블"

지정 버전으로 배포하기

```
쉘> eb deploy --version "app-2e15-170419_020530"
```

Reference

- [Amazon Web Services Korea] <u>Djangogirls를 위한 Django App을 AWS Elastic Beanstalk에 배포하기</u>

- <u>Deploying a Django Application to Elastic Beanstalk</u>

*Life is short,
use Python3/Django.*