클라우드 컴퓨팅 Term Project



Dynamic Virtual Resource Managment Program

[2018038057 류서현]



V

PRESENTATION



OUERUIEW

프로젝트 환경



기본 메뉴 기능

- List Instance
- Available Zones
- Start Instance
- Available Regions

- Stop Instance
- Create Instance
- Reboot Instance
- List Images

추가 메뉴 기능

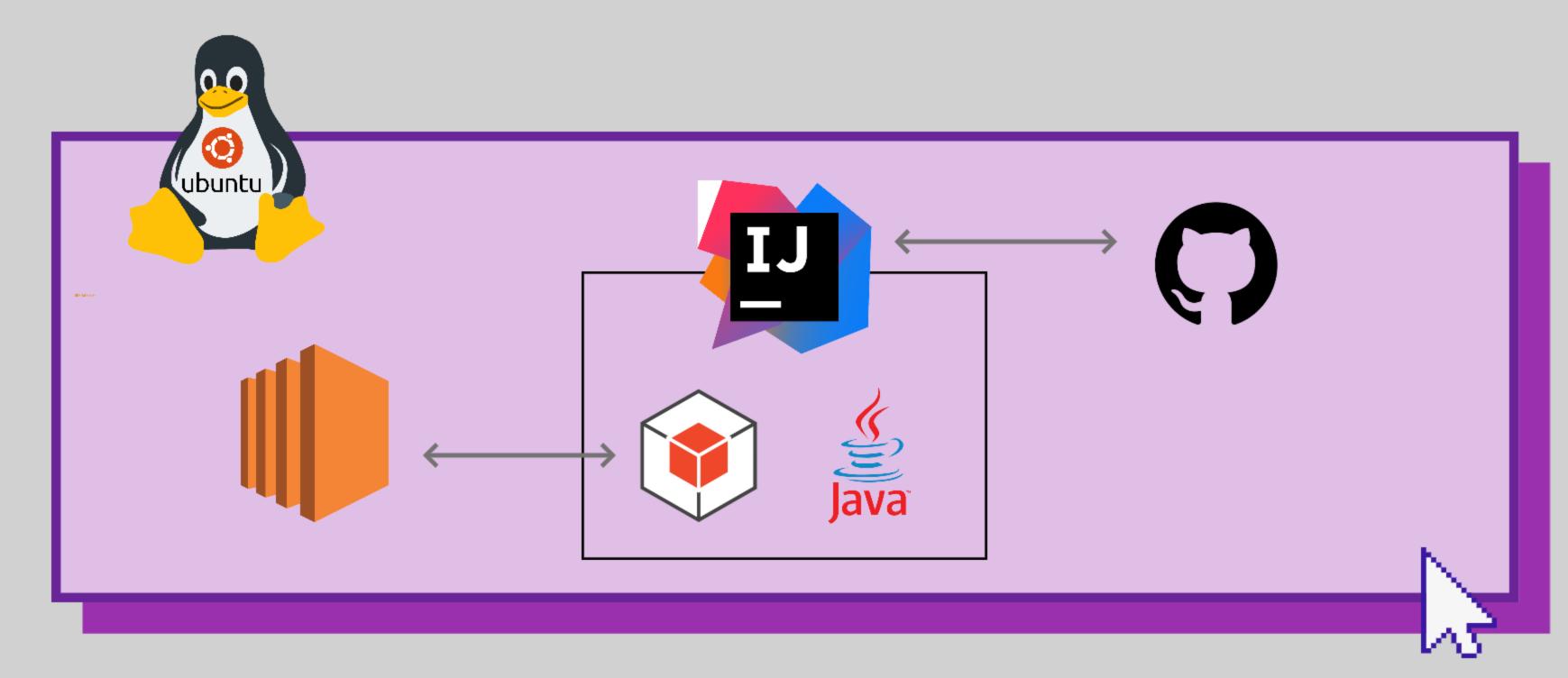
- Terminate Instance
- Search Instance with Status
- Start all instance

- Stop all instance
- List Security Groups
- List Key Pairs

시연

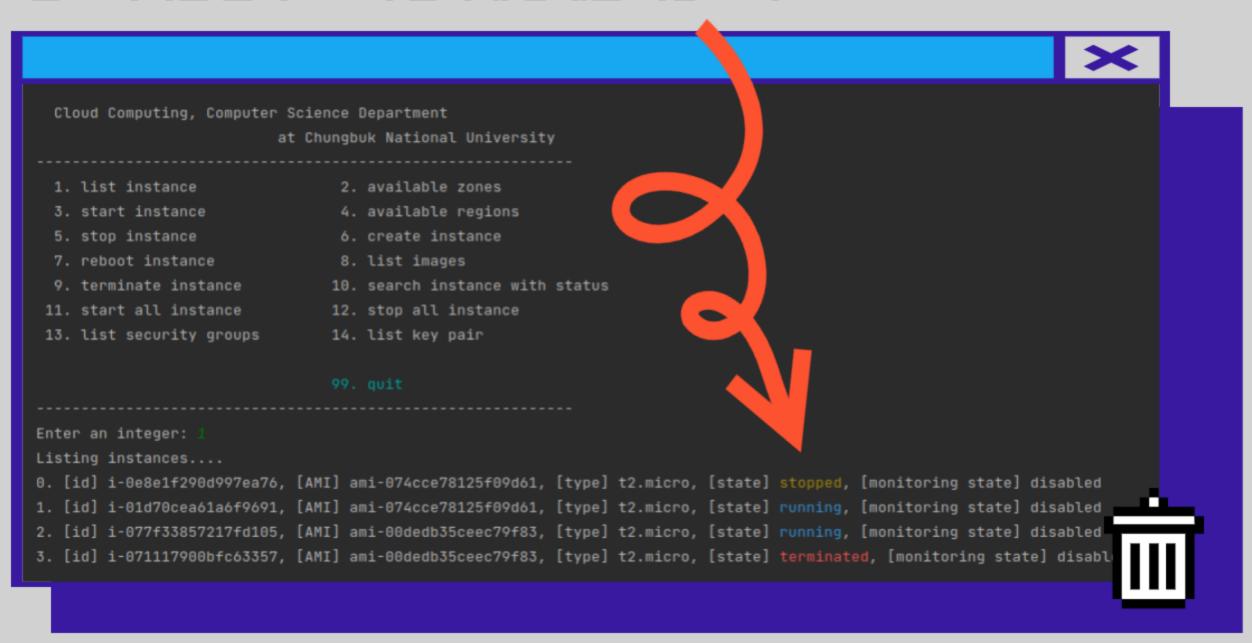


프로젝트 환경



기본 메뉴 기능

01. List instance : 인스턴스 목록을 출력 / 보기 편하게 상태를 색상 표시



```
7. reboot instance
                                  8. list images
                                 10. search instance with status
  9. terminate instance
 11. start all instance
                                 12. stop all instance
Enter an integer:
Available Regions . . .
[region] eu-north-1, [endpoint] ec2.eu-north-1.amazonaws.com
[region] ap-south-1, [endpoint] ec2.ap-south-1.amazonaws.com
[region] eu-west-3, [endpoint] ec2.eu-west-3.amazonaws.com
[region] eu-west-2, [endpoint] ec2.eu-west-2.amazonaws.com
[region] eu-west-1, [endpoint] ec2.eu-west-1.amazonaws.com
[region] ap-northeast-3, [endpoint] ec2.ap-northeast-3.amazonaws.com
[region] ap-northeast-2, [endpoint] ec2.ap-northeast-2.amazonaws.com
[region] ap-northeast-1, [endpoint] ec2.ap-northeast-1.amazonaws.com
[region] sa-east-1, [endpoint] ec2.sa-east-1.amazonaws.com
[region] ca-central-1, [endpoint] ec2.ca-central-1.amazonaws.com
[region] ap-southeast-1, [endpoint] ec2.ap-southeast-1.amazonaws.com
[region] ap-southeast-2, [endpoint] ec2.ap-southeast-2.ama
[region] eu-central-1, [endpoint] ec2.eu-central-1.amazona
[region] us-east-1, [endpoint] ec2.us-east-1.amazonaws.com
[region] us-east-2, [endpoint] ec2.us-east-2.amazonaws.com
[region] us-west-1, [endpoint] ec2.us-west-1.amazonaws.com
[region] us-west-2, [endpoint] ec2.us-west-2.amazonaws.com
```

기본 메뉴 기능

02. Available zones : 가용영역(AZ) 목록을 출력

04. Available regions : 리전(지역) 목록을 출력

99. quit Enter an integer: Available zones . . . [id] use2-az1, [region] us-east-2, [zone] us-east-2a [id] use2-az2, [region] us-east-2, [zone] us-east-2b [id] use2-az3, [region] us-east-2, [zone] us-east-2c

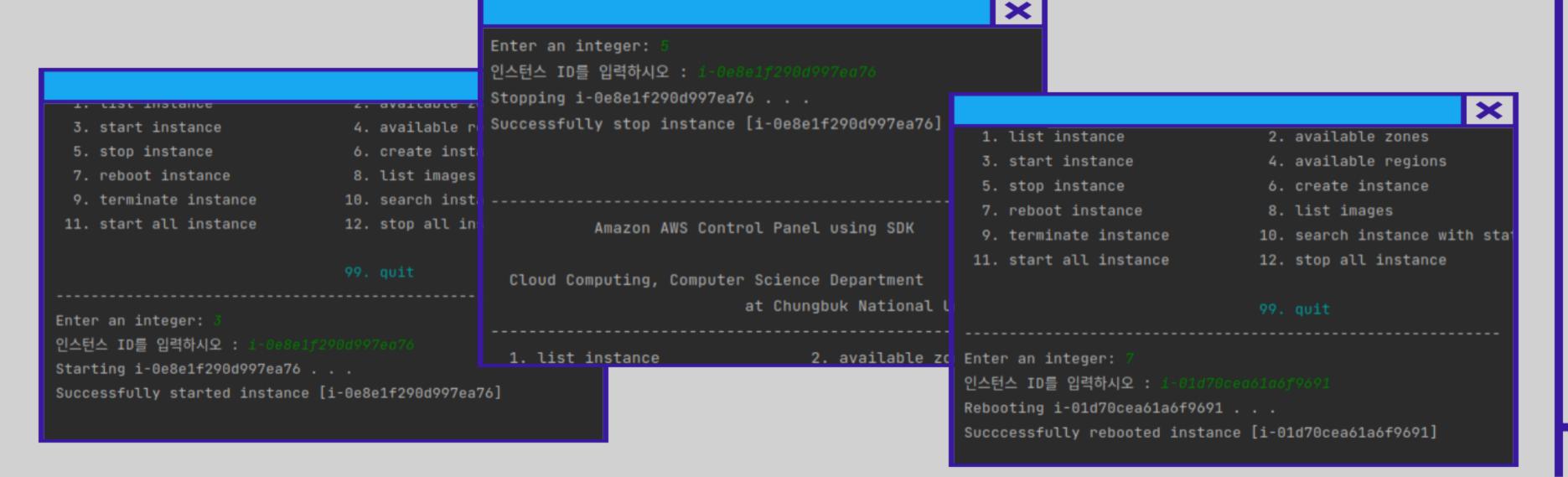


기본 메뉴 기능

03. Start instance : 인스턴스 ID를 입력하여 해당 인스턴스를 시작

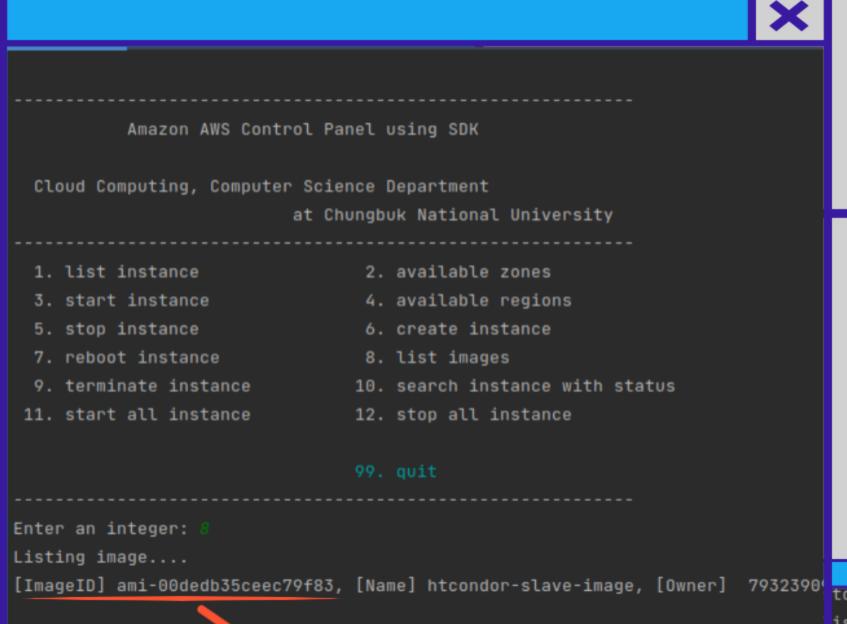
05. Stop instance : 인스턴스 ID를 입력하여 해당 인스턴스를 중지 → 1번 메뉴를 통해 바뀐 상태를 확인할 수 있다.

07. Reboot instance : 인스턴스 ID를 입력하여 해당 인스턴스를 재부팅



클라우드 컴퓨팅 Term Project







><

06. Create instance: base가 될 AMI과 새로 생성될

인스턴스의 이름을 입력 / 새로운 인스턴스 생성

08. List images : AMI(이미지) 목록을 출력

top all instance ist key pair

99.

Enter an integer: 6

생성할 인스턴스 이름을 입력하시오 : new_slave

이미지 ID를 입력하시오 : ami-00dedb35ceec79f83

Successfully started EC2 instance [new_slave] i-071117900bfc63357 based on AMI ami-00dedb35ceec79f83



추가 메뉴 구현



09. Terminate instance

: 인스턴스 ID를 입력하여 해당 인스턴스를 종료

ro, [state] stopped, [monitoring ro, [state] running, [monitoring ro, [state] running, [monitoring ro, [state] shutting-down, [monit

Amazon AWS Control Panel using SDK Cloud Computing, Computer Science Department at Chungbuk National University 1. list instance 2. available zones start instance 4. available regions 5. stop instance 6. create instance 8. list images 7. reboot instance 9. terminate instance 10. search instance with status 11. start all instance 12. stop all instance 13. list security groups 14. list key pair 99. quit Enter an integer: 인스턴스 ID를 입력하시오 : i-071117900bfc63357 Terminating i-071117900bfc63357 . . . Successfully Terminated instance [i-071117900bfc63357]

추가 메뉴 구현

10. Search instance with Status

: 필터링을 통해 특정 상태의 인스턴스만 검색하고 목록을 출력

1을 선택하면 running 상태의 인스턴스만 2를 선택하면 stopped 상태의 인스턴스만 출력한다.

다른 값이나 숫자가 아닌 값을 입력하면 예외처리에 의해 다시 입력하도록 안내한다.





추가 메뉴 구현

11. Start All instance : 모든 인스턴스 시작

12. Stop All instance : 모든 인스턴스 중지

```
Enter an integer:
Starting all instances....
Starting instance [i-0e8e1f290d997ea76] . . .
Successfully start all instances :)
          Amazon AWS Control Panel using SDK
 Cloud Computing, Computer Science Department
                         at Chungbuk National University
 1. list instance
                               2. available zones
 start instance
 stop instance
                              create instance
 7. reboot instance
                              8. list images
 9. terminate instance
                              10. search instance with status
 11. start all instance
                              14. 15 모든 인스턴스가 실행 상태로
 13. list security groups
Enter an integer:
0. [id] i-0e8e1f290d997ea76, [AMI] ami-074cce78125f09d61, [type] t2.micro, [state] pending, [monitoring state
3. [id] i-071117900bfc63357, [AMI] ami-00dedb35ceec79f83, [type] t2.micro, [state] terminated, [monitoring state]
```

```
Enter an integer:
Stopping all instances....
Stopping instance [i-0e8e1f290d997ea76] . . .
Stopping instance [i-01d70cea61a6f9691] . . .
Stopping instance [i-077f33857217fd105] . . .
Successfully stop all instances :)
          Amazon AWS Control Panel using SDK
  Cloud Computing, Computer Science Department
                         at Chungbuk National University

    list instance

                               available zones
                               6. create instance
  7. reboot instance
                               8. list images
                              10. search instance with status
 9. terminate instance
 11. start all instance
                               12. stop all instance
                              14. List 모든 인스턴스가 좀지 상태로
 13. list security groups
Enter an integer:
Listing instances....
0. [id] i-0e8e1f290d997ea76, [AMI] ami-074cce78125f09d61, [type] t2.micro, [state] stopping, [monitoring s
3. [id] i-071117900bfc63357, [AMI] ami-00dedb35ceec79f83, [type] t2.micro, [state] terminated, [monitoring
```

```
추가 메뉴 기능
  7. reboot instance
                              8. list images
 9. terminate instance
                             10. search instance with status
 11. start all instance
                             12. stop all instance
Enter an integer:
Available Regions . . .
[region] eu-north-1, [endpoint] ec2.eu-north-1.amazonaws.com
[region] ap-south-1, [endpoint] ec2.ap-south-1.amazonaws.com
                                                                               13. List Security Groups : 보안 그룹 목록을 출력
[region] eu-west-3, [endpoint] ec2.eu-west-3.amazonaws.com
[region] eu-west-2, [endpoint] ec2.eu-west-2.amazonaws.com
[region] eu-west-1, [endpoint] ec2.eu-west-1.amazonaws.com
[region] ap-northeast-3, [endpoint] ec2.ap-northeast-3.amazonaws.com
                                                                               14. List Key Pairs : 키페어 목록을 출력
[region] ap-northeast-2, [endpoint] ec2.ap-northeast-2.amazonaws.com
[region] ap-northeast-1, [endpoint] ec2.ap-northeast-1.amazonaws.com
[region] sa-east-1, [endpoint] ec2.sa-east-1.amazonaws.com
[region] ca-central-1, [endpoint] ec2.ca-central-1.amazonaws.com
[region] ap-southeast-1, [endpoint] ec2.ap-southeast-1.amazonaws.com
[region] ap-southeast-2, [endpoint] ec2.ap-southeast-2.ama
[region] eu-central-1, [endpoint] ec2.eu-central-1.amazona
[region] us-east-1, [endpoint] ec2.us-east-1.amazonaws.com
                                                                                          99. quit
[region] us-east-2, [endpoint] ec2.us-east-2.amazonaws.com
[region] us-west-1, [endpoint] ec2.us-west-1.amazonaws.com
                                                     Enter an integer:
[region] us-west-2, [endpoint] ec2.us-west-2.amazonaws.com
                                                      Available zones . . .
                                                     [id] use2-az1, [region] us-east-2, [zone] us-east-2a
                                                     [id] use2-az2, [region] us-east-2, [zone] us-east-2b
                                                     [id] use2-az3, [region] us-east-2, [zone] us-east-2c
```

V

클라우드 컴퓨팅 Term Project



