

경영학과 전공생의 고군분투 SWE 도전기

Introduction

이권수

경영학과 전공

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컴퓨터 공학과 복수전공

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미국 1년 Web Developer

Introduction

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컴퓨터 공학과 복수전공

미국 1년 Web Developer

DevOps Engineer at Weverse Company

Introduction

이권수

Software Engineer at Sendbird

SRE Engineering

Agenda

1

Why DevOps/SRE?

2

Challenges & Strategies

3

How to become SWE

Why DevOps/SRE?

1

Why DevOps/SRE?

시작은 웹프로그래머

Linux
Apache
MySQL
PHP

	배송대행	구매대행 ▾	결제대행	오샵	오카페
장바구니 주문 배송 조회 + 고객센터 +	미국 아마존 자동 구매대행 소개 및 장점 가이드(이용안내) 자동 구매대행 서비스 <ul style="list-style-type: none">- Electronics- Clothing, Shoes & Jewelry- Tools & Home Improvement- Home & Kitchen- Automotive- Sports & Outdoors	미국 코스트코 자동 구매대행 소개 및 장점 가이드(이용안내) 자동 구매대행 서비스 <ul style="list-style-type: none">- Clothing, Luggage & Handbags- Food, Household & Pet	독일 아마존 면세 구매대행 소개 및 장점 가이드(이용안내) 자동 구매대행 서비스 <ul style="list-style-type: none">- Küche, Haushalt & Wohnen- Baumarkt- Spielzeug- Elektronik & Foto- Auto & Motorrad- Sport & Freizeit		
	독일 일반 면세 구매대행 소개 및 장점 가이드(이용안내) 자동 구매대행 서비스 <ul style="list-style-type: none">- 독일 (모든 쇼핑물)	중국 타오바오/티몰 자동 구매대행 소개 및 장점 가이드(이용안내) 자동 구매대행 서비스 <ul style="list-style-type: none">- 중국 타오바오/티몰			

Why DevOps/SRE?

대용량의 코드

처음 해보는 개발



Why DevOps/SRE?

최초로 겪은 장애



Why DevOps/SRE?

클라우드에 관심



Why DevOps/SRE?


Are AWS certifications worth it for you?

If you're wondering if AWS certifications are worth it (and "worth it" to you means "may help advance your career or earn more money") then yes, AWS certifications are worth it.

- More than **80% of people identified a higher salary as a direct result of cloud certification**, our [State of Cloud](#) report found.
- 52% said **cloud certifications expanded their career opportunities**.
- Likewise, [Global Knowledge](#) found IT pros who gained new skills and/or certifications received **an average raise of \$12,000 to \$13,000**.


Why DevOps/SRE?

자격증 취득



This badge was issued to [Gwonsoo Lee](#) on 7 December 2018.
Expires on 26 May 2022

[Share](#) [...](#)



This badge was issued to [Gwonsoo Lee](#) on 8 January 2019.
Expires on 12 August 2022

[Share](#) [...](#)



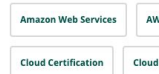
[Additional Details](#)


AWS Certified Solutions Architect – Associate

Issued by [Amazon Web Services Training and Certification](#)

Earners of this certification have a comprehensive understanding of AWS services and technologies. They demonstrated the ability to build secure and robust solutions using architectural design principles based on customer requirements. Badge owners are [More...](#)

Skills





This badge was issued to [Gwonsoo Lee](#) on 27 January 2019.
Expires on 12 August 2022

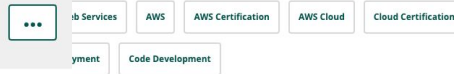
[Share](#) [...](#)



AWS Certified Developer – Associate

Issued by [Amazon Web Services Training and Certification](#)

Earners of this certification have a comprehensive understanding of application life-cycle management. They demonstrated proficiency in writing applications with AWS service APIs, AWS CLI, and SDKs; using containers; and deploying with a CI/CD pipeline. Badge owners are [More...](#)



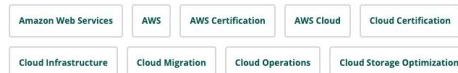
[Additional Details](#)

AWS Certified SysOps Administrator – Associate

Issued by [Amazon Web Services Training and Certification](#)

Earners of this certification have a comprehensive understanding on how to deploy, manage, and operate IT systems on the AWS Cloud. They demonstrated the ability to migrate on-premises workloads to AWS and monitor, scale, and secure systems on the AWS platform. Badge owners are [More...](#)

Skills



Why DevOps/SRE?

현업 DevOps Engineer 발표 청강



Connect with Juyoung

👤 Juyoung Song, DevOps Engineer at beNX
📍 Seoul, Korea
✓ Hero since 2019

Juyoung Song is a DevOps Engineer at beNX. He is currently in charge of transforming the legacy-cloud systems into modern cloud architecture to bring global stars such as BTS and millions of fans together in the digital sphere.

Previously he was at Samsung Electronics as a DevOps Engineer where he shared best practices and migration of modern cloud architectures. Samsung Account is an account platform which serves more than 900,000,000 users, and he contributed to the non-stop migration of Samsung Account from on-premises to AWS cloud.

Juyoung has spoken regularly at AWS-organized events such as AWS Container Day, AWS Summit, and [This is My Architecture](#). Furthermore, he organized and spoke at various Meetups like [AWS Korea User Group](#) and [DevOps Korea](#), about topics such as ECS and Fargate, and its DevOps best practices. He has carried on his expertise to writing, by producing written content for blogs and IT magazines in Korea. He is interested in building hyper-scale DevOps environments for containers using AWS CodeBuild, Terraform, and various open-source tools. His goal is to grow from DevOps engineer to DevOps producer, and ultimately DevOps Artist to maximize performance, work-emotion, cost, tools and methodology to build cloud-native services.

Learn More About Juyoung



aws 송주영

🔍 All 🖼 Images 📰 News 📍 Maps 📺 Videos ⋮ More

Settings Tools

About 1,720 results (0.36 seconds)

[aws.amazon.com](#) > blogs > korea > g... > Translate this page

[한국의 AWS Heroes를 소개합니다! \(2020년 5월\) | Amazon ...](#)

Mar 7, 2019 - 국내 최초 컨테이너 히어로인 송주영님은 유명 아이돌 그룹인 BTS의 온라인 팬서비스를 담당하는 beNX의 데브옵스 엔지니어로 일하고 있습니다.

Videos



Samsung Knox 및
Connect의 AWS 기반 큰
테이너 활용 사례 ...

Amazon Web Services
YouTube - May 9, 2017



데브옵스 아티스트 송주영님
과 함께 - AWS Hero 특집
:: 자니의 ...

Channy Yun - 윤석찬
YouTube - Mar 25, 2020



DevOps Art 1년 부채부터
10년 부채까지 - 송주영

DevOps Korea
YouTube - Sep 13, 2019

[www.zdnet.co.kr](#) > view > Translate this page

[AWS히어로 개발자 "업무성과, 강압 아닌 자유에서 나와 ...](#)

Dec 4, 2019 - AWS 히어로로 선정된 비엔엑스(beNX)의 송주영 데브옵스 엔지니어는 2일 미국 라스베이거스에서 열린 'AWS 리인벤트 2019' 현장에서 강연 중인 ...

Images for aws 송주영

상상전자 continuous integration 데브옵스 samsung ecs aws container docker 컨테이너 >



Why DevOps/SRE?

DevOps 엔지니어가 무엇일까

Why DevOps/SRE?



Reduce
Organization Silos



Accept
Failure as Normal



Implement
Gradual Change



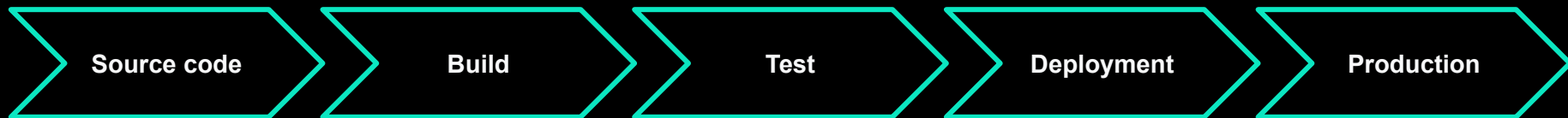
Leverage
Tooling & Automation



Measure
Everything

Why DevOps/SRE?

Infrastructure as Code : Area and Cycle



- | | | | | |
|--------------------|---------------|------------------------|----------------------|----------------------|
| - Source Repo | - C.I Tools | - Testing as code | - Deployment as code | - Monitoring as code |
| - Library manager | - Golden AMI | - Synthetic automation | - Immutable | - Alerting as Code |
| - Security Inspect | - Measurement | - Automate load test | - Measurement | - Chaos engineering |
| - Measurement | | - Measurement | - GitOps | - Log management |
| | | | | - Analyzing |
| | | | | - Measurement |

Why DevOps/SRE?

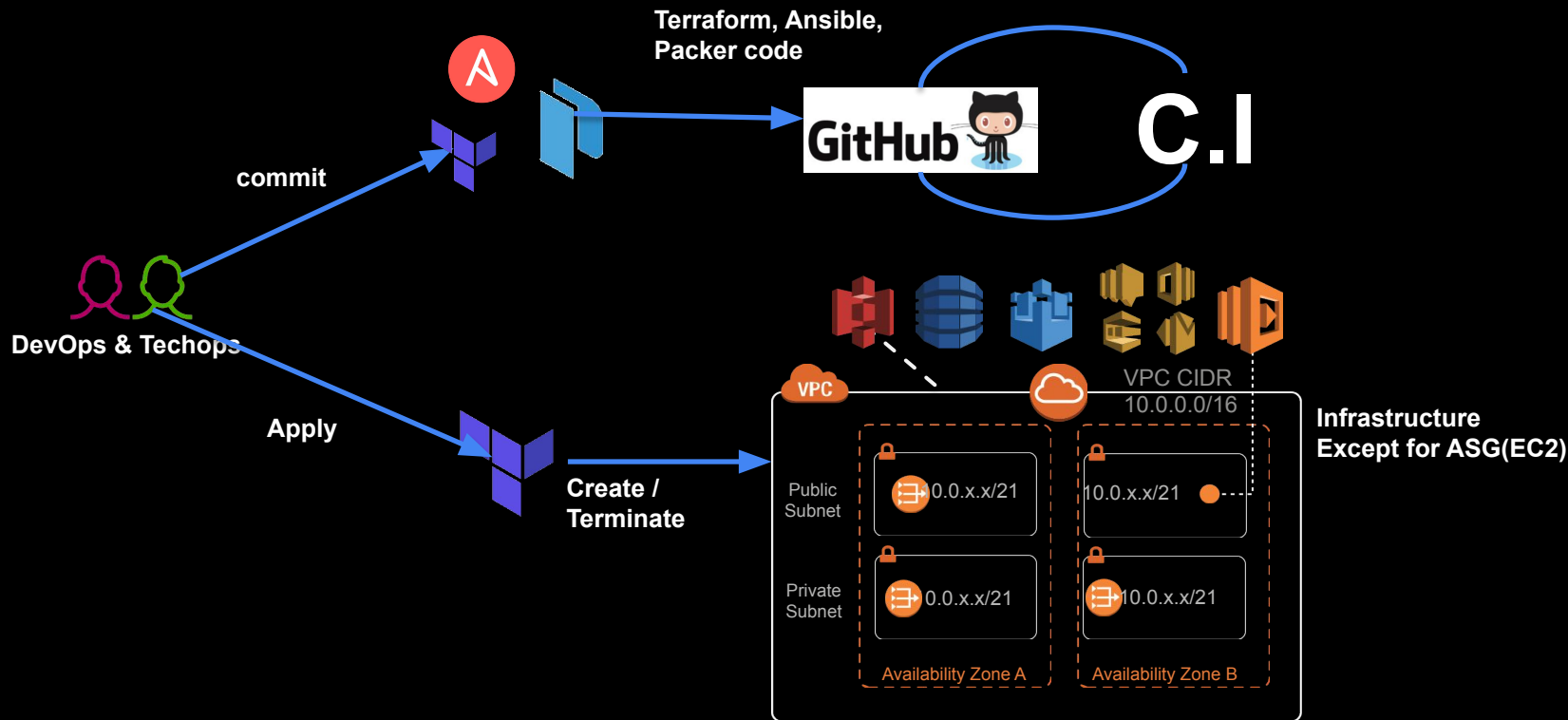
Effects of CI/CD

Deployment frequency	Weekly – monthly	→	Hourly – daily
Change lead time	One – six months	→	One – seven days
Change failure rate	46 – 60%	→	0 – 15%

48% of software teams

Why DevOps/SRE?

Infrastructure as Code - Terraform



Why DevOps/SRE?

나도 DevOps 엔지니어가 하고 싶다

Why DevOps/SRE?

DevOps 전문가에게 제대로 배우고 싶다

Why DevOps/SRE?

현업은 경력직 선호

Why DevOps/SRE?

더 많은 자격증 취득



**CKA: Certified
Kubernetes
Administrator**

The Linux Foundation



**AWS Certified
DevOps
Engineer –
Professional**

Amazon Web Services
Training and...



**AWS Certified
Solutions
Architect –
Professional**

Amazon Web Services
Training and...



**AWS Certified
SysOps
Administrator –
Associate**

Amazon Web Services
Training and...



**AWS Certified
Developer –
Associate**

Amazon Web Services
Training and...



**AWS Certified
Solutions
Architect –
Associate**

Amazon Web Services
Training and...

Why DevOps/SRE?

운 좋게 팀에 합류

Why DevOps/SRE?

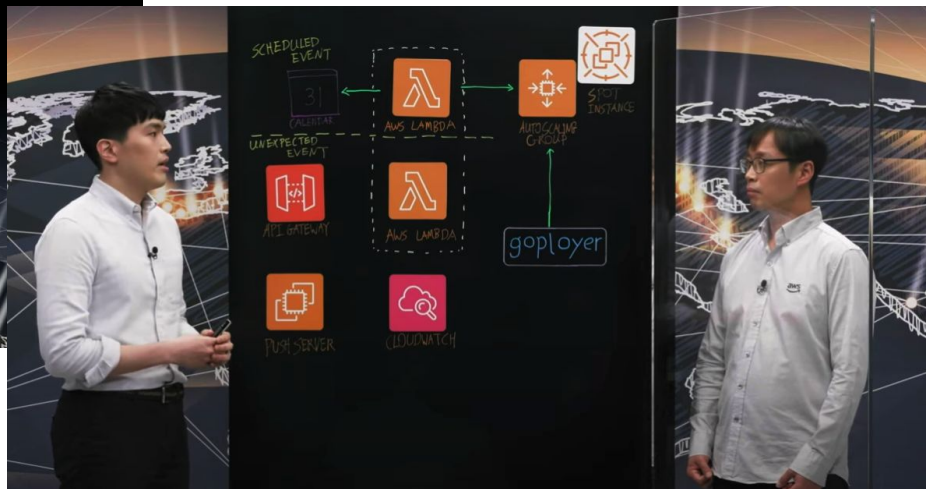
아키텍처 발표



This is My Architecture

beNX:

Architecture Changes to Handle Massive Peak Traffic



Why DevOps/SRE?

오픈소스 컨트리뷰티

tektoncd / triggers

< Code 80 Pull requests 1 Projects 2 Wiki Security Insights

add nodeSelector and replicas to eventlistener #625

Merged tekton-robot merged 1 commit into tektoncd:master from GwonsooLee:nodeSelector_and_replicas on Jul 11, 2020

Conversation 30 Commits 1 Checks 0 Files changed 11

GwonsooLee commented on Jun 20, 2020 • edited Contributor

Changes

Add nodeSelector and replicas feature to eventListener. With this, user could schedule eventListener pod to the node specific label. Also, if needed, user could specify the number of replicas in yaml file. Previously I scaled pod by editing deployment (If other possible way to scale which I might not know..., please let me know!)

Submitter Checklist

These are the criteria that every PR should meet, please check them off as you review them:

- ☒ Includes tests (If functionality changed/added)
- ☒ Includes docs (If user facing)
- ☒ Commit messages follow commit message best practices

See the [contribution guide](#) for more details.

Release Notes

- add replicas field for event listener to be able to run more than one pod.
- add nodeSelector field for event listener to schedule event listener pod to the specific node.

tekton-robot requested review from diorenc and ncskier on Jun 20, 2020

tekton-robot added [ci:ci](#) [needs-ok-to-test](#) labels on Jun 20, 2020

GoogleContainerTools / skaffold

< Code 388 Pull requests 23 Actions Security Insights

apply namespace from command first when cleaning up helm release #4281

Merged briandealwis merged 2 commits into GoogleContainerTools:master from GwonsooLee:helm_cleanup_bug on Jun 6, 2020

Conversation 4 Commits 2 Checks 1 Files changed 2

GwonsooLee commented on Jun 1, 2020 Contributor

Fixes: #4279

Related: #3914

Description

After #3914 is released --namespace is added when cleaning up the helm release. According to the code, when deploying helm release spt_namespace is checked first.

<https://github.com/GoogleContainerTools/skaffold/blob/master/pkg/skaffold/deploy/helm.go#L363-L367>

But when cleaning up releases, the namespace of the release is applied. (I'm not sure if this is intended.)

<https://github.com/GoogleContainerTools/skaffold/blob/master/pkg/skaffold/deploy/helm.go#L229-L234>

User facing changes (remove if N/A)

--namespace is working well if I use build & deploy, but it is not working with dev command.

apply namespace from command first when cleaning up helm release

683a54a

chaos-eng / chaos-eng.github.io

< Code 2 Issues 2 Pull requests 1 Actions Projects Wiki Security Insights

add korean version #45

Merged lorin merged 1 commit into chaos-eng:master from GwonsooLee:add_korean on Jan 4

Conversation 1 Commits 1 Checks 0 Files changed 2

GwonsooLee commented on Sep 22, 2020 Contributor

I translated contents to korean.
Please let me know if there is anything I should fix :)

Thanks

add korean version

18eb5ce

lorin merged commit 89ff92f into chaos-eng:master on Jan 4

Revert

lorin commented on Jan 4 Contributor

Thanks for the contribution! My apologies for taking so long to review this.

GwonsooLee deleted the GwonsooLee:add_korean branch on Feb 2

Restore branch

Why DevOps/SRE?

DevOps vs SRE?

Why DevOps/SRE?

class SRE implements DevOps

Challenges

2

Challenges

원전공 = 4년

복수전공 = 2년

비전공 = 0년

Challenges

복수전공

절반의 시간 동안 따라가야 하는 상황

Challenges

복수전공

제 1전공과의 시너지가 중요

Challenges

복수전공

하지만 경영학과 컴퓨터공학의
시너지를 찾지 못함

Challenges

복수전공

하지만 경영학과 컴퓨터공학의
시너지를 찾지 못함

= 컴퓨터 공학에
올인

Challenges

복수전공

복수전공생들끼리 수업 구성

Challenges

복수전공

복수전공생들끼리 수업 구성

난이도 하향 조정

Challenges

복수전공

복수전공생들끼리 수업 구성

난이도 하향 조정

수업은 따라가도, 전공생을 따라갈 수가 없다

Challenges

네트워킹

컴퓨터 공학 선배 **부재**

Challenges

네트워킹

조언 해줄 사람 **없음!**

Challenges

수학

시도조차 엄두가 안남

Strategy

2

Strategy

미국 인턴: 실무 경험을 쌓자

Strategy

현업을 배우면서 시야가 달라짐

Strategy

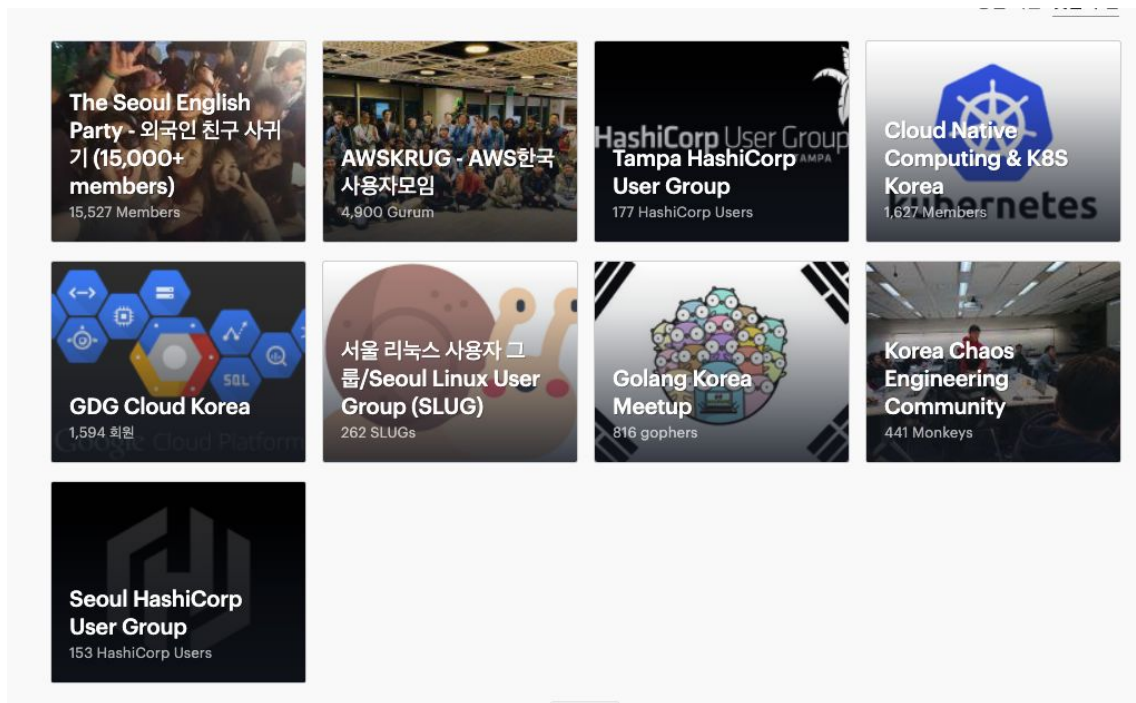
현업을 배우면서 시야가 달라짐

=> 수업이 쉬워짐

Strategy

커뮤니티 활동: 조언자를 찾자

각종 커뮤니티 모임 가입



Strategy

코딩 수학: 할 수 있는 것에 집중하자

Strategy

코딩에 필요한 수학만 공부

기초 수학으로 충분

How to become SWE

3

How to become SWE

기본에 충실!

How to become SWE

기본에 충실!

현상과 결과가 아닌
원리를 이해하는 것이 중요

How to become SWE

대학 수업 = Fundamental

How to become SWE

운영체제 원리

자료구조

데이터베이스 원리

네트워크

알고리즘

컴퓨터 구조

보안의 기본

How to become SWE

Programming 언어는 하나면 충분!

How to become SWE

Programming 언어는 하나면 충분!

가장 잘할 수 있는 언어를 선택

How to become SWE

Programming 언어는 하나면 충분!

가장 잘할 수 있는 언어를 선택

이왕이면 코딩테스트에서 사용할
수 있는 언어면 더 좋습니다!

How to become SWE

기술의 내용보다 용도에 초점

How to become SWE

기술의 내용보다 용도에 초점

What 보다 Why, How를 고민

How to become SWE

기술의 내용보다 용도에 초점

What 보다 Why, How를 고민

Best Practice 찾아보기

Q & A