

AWS MEETUP

# DevTalk



16:50 - 17:10

## Increase Productivity by Developer's Platform

Internal

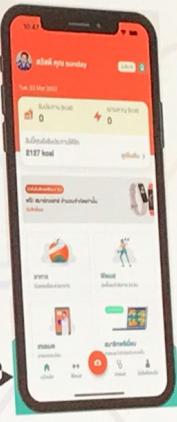
Jesada Gonkratoke

Platform Service Manager, SCB TechX

PJack



## Our Customers



X-Platform

# Learning Curve

## Common challenges for engineers



Time To Market



Security concerns and compliance requirements are major challenges for teams while adopting new technology.



Teams do not have the necessary technical skills and expertise to adopt new technology.



Various tools



Standardization



Thick Processes and Onboarding team member



Ability to debug and troubleshoot issues any environments.



Costs are not effectively managed.



SCB TECH®

all in [IAC, Technology]

Time to market

→ STD Skill set

DevOps Culture + Project in charge → Hard to Get Req

↳ Bottom neck → Scale 0\_0

Under → Self Service → Bundle

↳ DevOps MindSet → Focus deliver service

## Differences : DevOps and Platform Engineers



DevOps is a conceptual mindset for defining the ways development and operations collaborate.  
Platform engineering is the creation of a centralized platform with defined sets of tools and workflows.

The teams that do platform engineering and DevOps also have distinct responsibilities and audiences.

Consider these examples of platform engineer vs. DevOps roles:

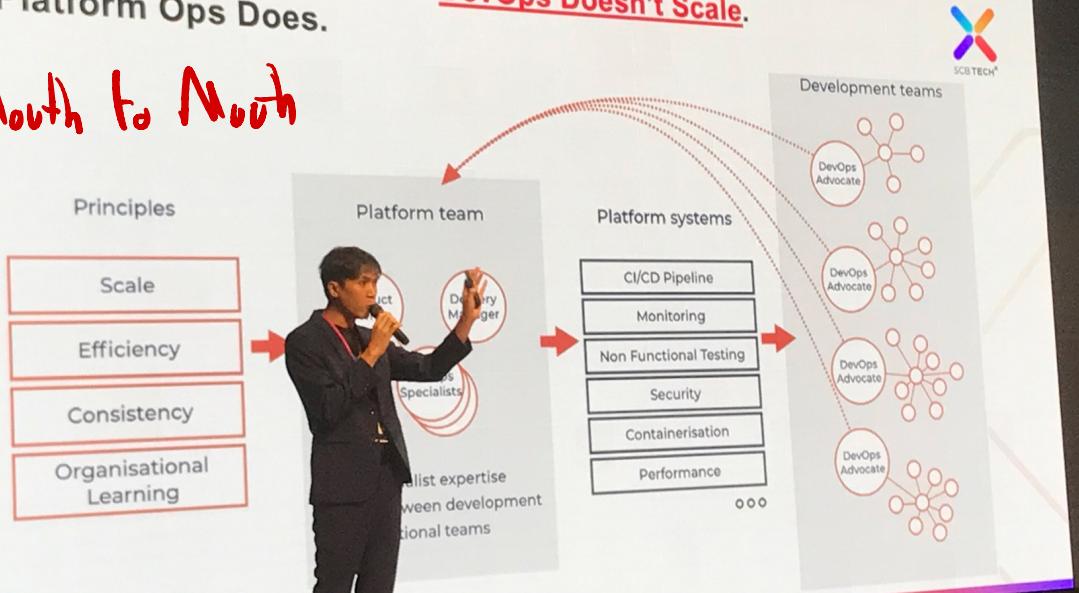
- A DevOps team is focused on delivering technical features of an application
- A platform engineering team is specifically focused on building and maintaining a platform. That includes identifying the needs of the dev teams and anyone else in the organization who will benefit in using the platform.
- A DevOps team is sometimes responsible for releasing features straight to external audiences (like software customers). A platform engineer explains and evangelizes the platform to internal customers (like the DevOps team).
- A DevOps team will look at specific technical and engineering problems related to their delivery focus. A platform engineering team will look to define their platform by finding out what their customers (developers) need from it.

End User → user service → Internal Customer → DevOps, PdM

Wrap Up → DevOps what need to use

Reinventing the Wheels in DevOps Doesn't Scale.  
Platform Ops Does.

Word of Mouth → Mouth to Mouth



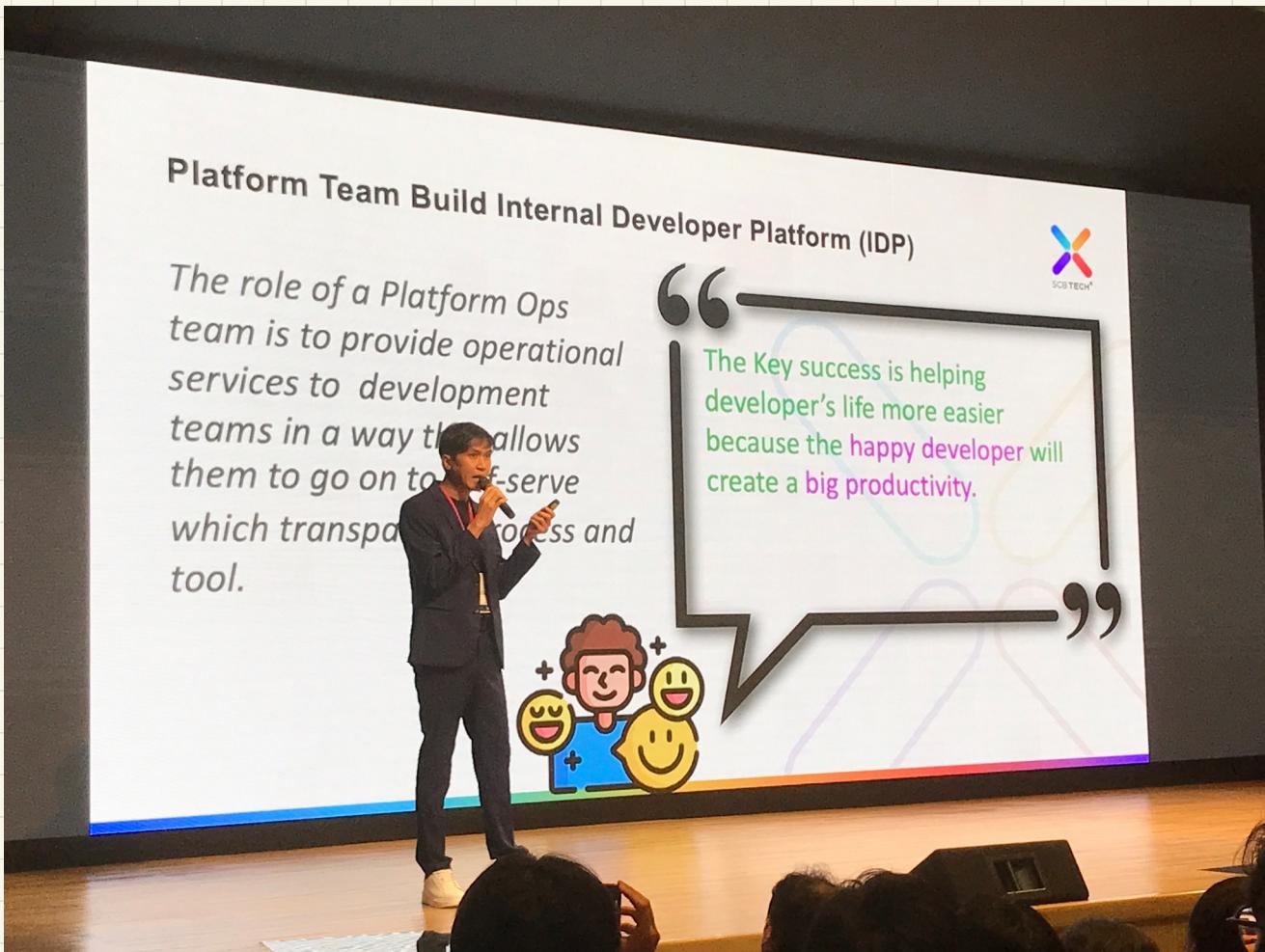
Dev to mango Project with  
Best Practice

## Platform Team Build Internal Developer Platform (IDP)



*The role of a Platform Ops team is to provide operational services to development teams in a way that allows them to go on to self-serve which transparent process and tool.*

**“**  
The Key success is helping developer's life more easier because the happy developer will create a big productivity.  
**”**



## - Infrastruktur

Insufficient  $\text{Fe}^{2+}$  nutrition  $\rightarrow$  Growth retardation

Internal Developer Platform (IDP) can solve  
Sample Problems



Wanted to Approve

- Insufficient devops resources
  - Onboarding time for new project is too long, different tools and way of working and support.
  - Environment owner and responsibility
  - Pipeline standard for each archetype
  - Invisible change or release schedule
  - Promote different practices across environment
  - Approval Workflow
    - Production availability test
    - Cost budget
  - Standard workspace management, Gracefully Shutdown, Zombie Process, Telemetry etc.)
  - Provision cloud resources (Tagging Policy, POC Only, Ephemeral Environment etc.)
  - Cloud cost management (Expiration alert)
  - Licensing and certificates (Expiration alert)
  - How to adopt Principles (GitOps, TestOps, AIOps, Trunk Base Development, Guardrail, ShiftLeft, Secret Mgt etc.)

# Pipeline + Spring boot, NodeJS

Com plie with security / Integration  
Phase Credentia

# Non Prod + Prod?

## Approve Access Production

*Self Service Portal*

## xPlatform, The Internal Developer Platform

Our platform provides businesses with the ability to quickly and easily deploy applications, store data, and scale their infrastructure as needed.



Abstract the infrastructure complexity for developers



Boost transparency and predictability in digital solution build & run



Increase efficiency by managing infrastructure-as-code



Enable proactive and automated detection to reduce risk



Champion analytics, insights, DevSecOps practices



Enhance Developer experience and productivity

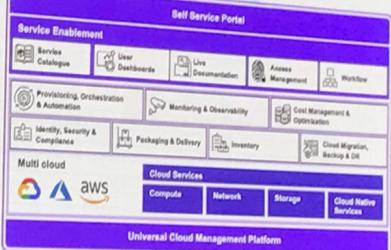


Improve deploy frequency and time-to-market

SCB TECH<sup>TM</sup>

### Enterprise Services

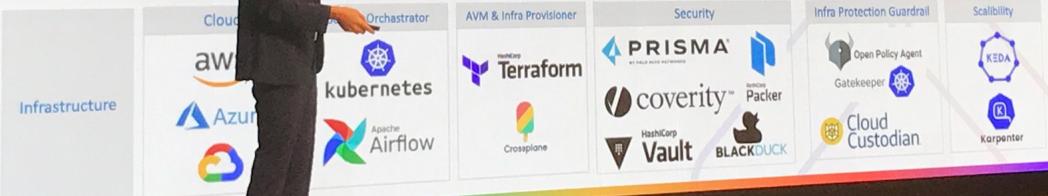
### Modernization and Transformation



Consulting & Enablement



## Platform's Technology Stack



## xPlatform (IDP) Features

SELF SERVICE PORTAL<sup>X</sup>

Sign in to **aella**  
Click [here](#) for sign-in to another company

Email \*

Password \*

Forgot your password?

Or continue with

 Log in with Microsoft

 Log in with GitHub

 Log in with Google



Address to Each proj

Com

proj

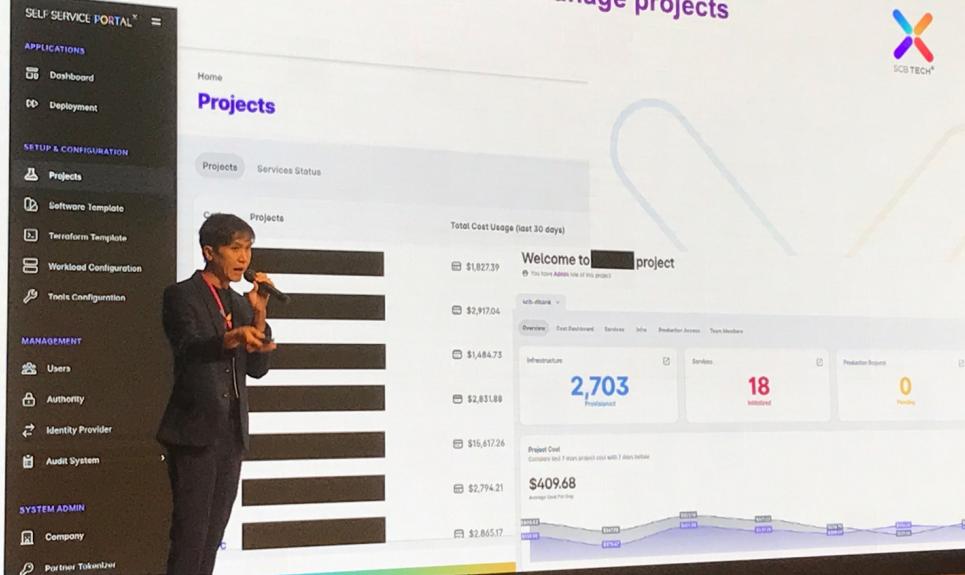
PO + Member



→ Grant Access to

Dev, QA, CI

## xPlatform Features : Dashboard to Manage projects and teams



## xPlatform Features : Dashboard to Manage projects and teams

Overview Cost Dashboard Services Infra Production Access Team Members



Add new member

Select user

Add member

After adding a new member, You will not see new members in your team member system immediately.

Select a role

- Architecture
- Business Analyst
- Developer
- Developer Lead
- DevOps
- Project Manager
- Project Owner
- Tester (QA)
- Tester (QA) Lead
- SRE
- Tech Support
- System Analyst

Project Members

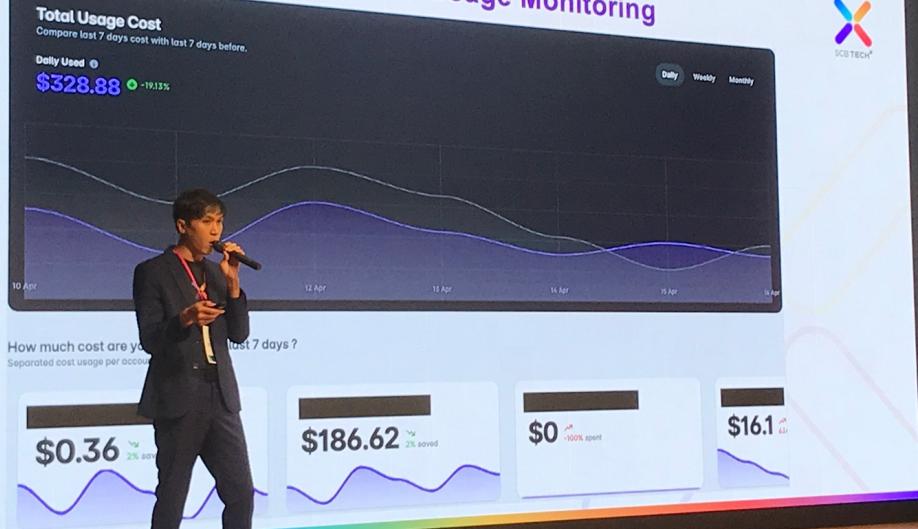
Type for search

User

A



## xPlatform Features : Cost Usage Monitoring



## xPlatform Features : Cost Saving Stats Monitor



### Cost Saving Methods

Show the cost-saving status of your project with this feature.

### Turn On/Off Status Each Environment

Environment

PREPROD

AI DATA

Auto Turn On

Enable

Disable

Auto Turn Off

Enable

Disable

Last Updated

Mon, Apr 17, 2023 11:11 AM

Mon, Apr 17, 2023 8:55 AM

100% 100% 100%

## xPlatform Features : Service Templates

The screenshot shows a dashboard with several service cards:

- batch-enabler-job**: Service Type: service, Test Coverage: -, Vulnerability: 0/0.
- admin-auth-service**: Service Type: service, Test Coverage: -, Vulnerability: 0/0.
- accounts-service**: Service Type: service, Test Coverage: -, Vulnerability: 0/0. This card is currently selected, and a modal window is displayed over it.
- batch-job-status**: Service Type: lambda, Test Coverage: -, Vulnerability: 0/0.
- bills-service**: Service Type: service, Test Coverage: -, Vulnerability: 0/0.

The modal window for the **accounts-service** card contains the following details:

Service Information	
Company	scb
Service Name	accounts-service
Service Owner	sumit.rawal
Project Name	dbnk
Service Type	Microservice
Template Name	maven-java11-spring2_3_9-stdlib_bundle

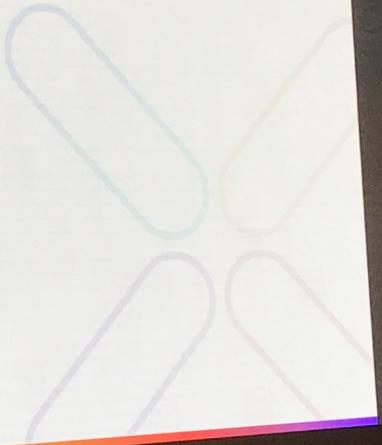


## xPlatform Features : Service Templates

-  ALPHA-Deploy
-  CustomLibrary-Build-Public
-  DEV-Build-Deploy
-  DEV-Build-Hotfix
-  DevSecOps
-  FEATURE-BRANCH-Build
-  FEATURE-BRANCH-Deploy
-  PREPROD-Deploy
-  PROD-Deploy
-  PT-Deploy
-  QA-Testing-Pipeline
-  Selfservice
-  STAGING-Deploy



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## xPlatform Features : Service Templates



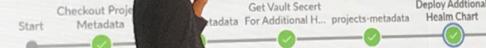
### CI Pipeline



### DevSecOps Pipeline

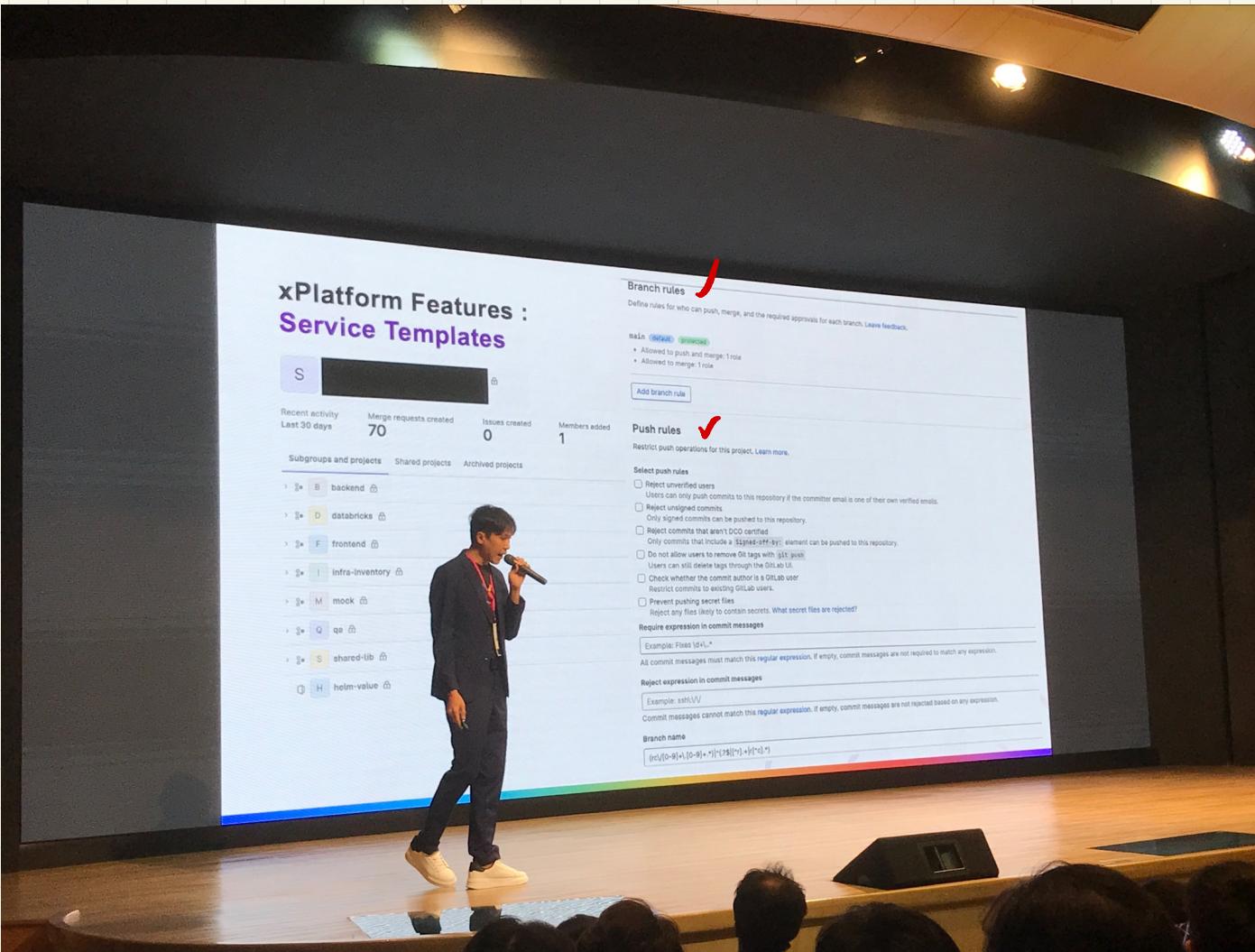


### Deploy Additional Helm Chart Pipeline



### Infra-Provisioning Pipeline





# xPlatform Features : Infra Inventory

Overview Cost Dashboard Services Infra Production Access Team Members

Type for search

## Terraform Template

```
create-aws-security-group  create-service-iam-role  create-service-iam-exec-batch-role  cr  
create-cloudfront-waf-access-s3  create-dynamodb-table-sq  create-cloudfront-waf-and-route53-in-public  
create-aws-s3-bucket  create-pub-sub-environment-on-demand  create-sns-lambda  
create-mongodb-atlas-cluster  create-aws-elasticache-redis  cre
```

< create-aws-s3-bucket

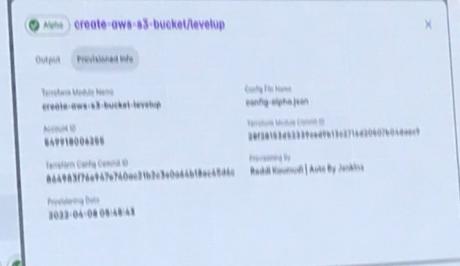
Service Name

pii-data

levelup



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AM, 10

## xPlatform Features : Production Access Request

Overview Cost Dashboard Services Infra Production Access Team Members

Request Production Access

All  Active  Pending  Rejected  Expired

Filter: All Service Search

Service	Requestor	Expired In	Approval	Status
Grafana	Software Development Director			1/1 Expired

Create Request

Select user: [redacted]

Select tool: Kibana, Logging [redacted] Readonly

Select access duration: 24 hours

Description: Investigate Production issue

Create



## xPlatform Features : Notification

[xPlatform] Weekly VA Scan Whitelist Base Images in TECHX OPA Rules

Some content in this message has been blocked because the sender isn't in your Safe senders list.

To: [REDACTED]

Mon 4/17/2023 9:15 AM

**SELF SERVICE PORTAL X**

**TECHX OPA Base Images Vulnerability Report**

Dear All,

This is the vulnerability report for the base image which is allowed in the current TECHX OPA Rule. We will remove high-risk vulnerabilities and announce obsolete versions in the next Open House session.

Base Image	Build ID	VA Summary
jre8	alpine:8.1.10-202002091051	High: 4, Medium: 14, Low: 7, Total: 26
jre8	alpine:8.1.10-2021071127	High: 2, Medium: 6, Low: 8, Total: 19
jre8	alpine:8.1.10-2020071021	High: 1, Medium: 4, Low: 7, Total: 15
jre8	alpine:8.1.10-202304051107	High: 0, Medium: 0, Low: 2, Total: 2
jre8	alpine:8.1.10-202304051107	High: 0, Medium: 0, Low: 0, Total: 0
jre8	alpine:8.1.10-202304051107	High: 0, Medium: 0, Low: 0, Total: 0
jre8	alpine:8.1.10-202304051107	High: 0, Medium: 0, Low: 0, Total: 0
jre11	alpine:11.3.0-202304051107	High: 4, Medium: 11, Low: 9, Total: 28
jre11	alpine:11.3.0-202304051107	High: 4, Medium: 12, Low: 9, Total: 30
ire11	alpine:11.3.0-202304051107	High: 4, Medium: 12, Low: 9, Total: 30



## xPlatform Features : Notification

[xPlatform] Announcement : Auto Patch OS Schedule - aella-devops



### SELF SERVICE PORTAL

#### [xPlatform] Announcement : Auto Patch OS Schedule

Dear Sir/Madam,

As you informed, the scheduled OS Patching by AWS SSM for aella-devops Account will be performed during this time.

Patch : Patch-2023-04-01

Date : Wednesday, April 12, 2023

Time : 00:00 (GMT+7)

Instances :  
/ aella-xplatform-jenkins-devsecops-slave-awx-new-ec2  
/ aella-xplatform-jenkins-devsecops-slave-devops-ec2  
/ aella-xplatform-jenkins-slave-devops-ec2-01

*Survey on customer*

A man in a dark suit and light-colored shirt stands on a stage, holding a microphone and gesturing with his hands. He is positioned in front of a large projection screen. The screen displays a slide titled "Our Platform vs Real Customer Result". The slide features several icons and text blocks. A red arrow points from the top right towards the first text block. A red circle highlights the word "SL" above the first text block. A red line circles around the last text block. The SCB TECH logo is visible in the top right corner of the slide.

## Our Platform vs Real Customer Result

- Reduced infrastructure setup time by over 4 weeks
- Reduced application pipeline setup effort by 90%
- Reduced operations setup effort by 50%
- Reduced DevOps effort required by 50% *w3su lkw*
- Reduced cloud usage cost by 15%
- Reduced developer onboarding time to minutes

Upfront saving of 4 to 6 weeks effort as compared to any Cloud Service Provider