



# Jakarta EE Virtual Tour: Jakarta EE 8 and Beyond

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September-2021  
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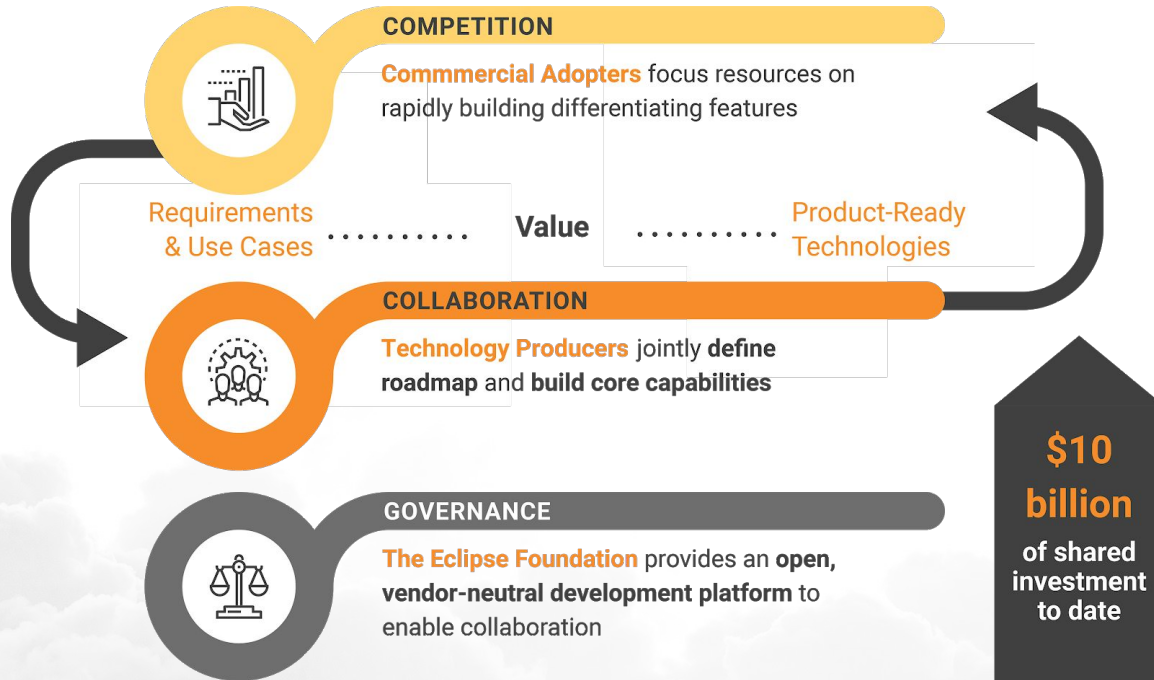
# About the Eclipse Foundation

**Community driven.  
Code first.**

**Commercial-friendly.**

**The Community for Open Innovation and  
Collaboration**

# Our Impact: Open Innovation at Industrial Scale



# Eclipse Foundation Core Services



Governance &  
Processes



Ecosystem  
Development &  
Marketing



IP Management &  
Licensing



Infrastructure



# Eclipse Foundation by the Numbers

**400+**

Projects

**330+**

Members

**1700+**

Committers

**260M+**

Lines of Code

**40**

Professional Staff

**20**

Working Groups

# Our Focus Areas

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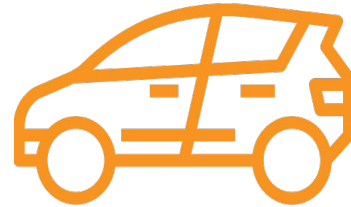
**Cloud Native Java**



**IoT & Edge**



**Automotive**



**Tools**





# The Big Move

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**In September 2017, Java EE technologies moved to the Eclipse Foundation, where they now continue to evolve under the Jakarta EE brand**







# JAKARTA EE

## Working Group

## An Industry Consortium

**Builds the  
community**

**Approves  
Specifications**

**Drives the  
Jakarta EE  
brand**

**Establishes  
the technical  
roadmap**

**Ensures  
compatibility**



# Backed by Java Industry Leaders

## Strategic Members



ORACLE



## Participating Members



Pivotal



## Enterprise Members



## Guest Members





<https://jakarta.ee>



The background is a dark blue gradient with several bright, diagonal light streaks that create a sense of motion and depth. The streaks are most prominent on the left side and fade towards the right.

# Open Specifications

# Open Source Specification Process

**Code** First

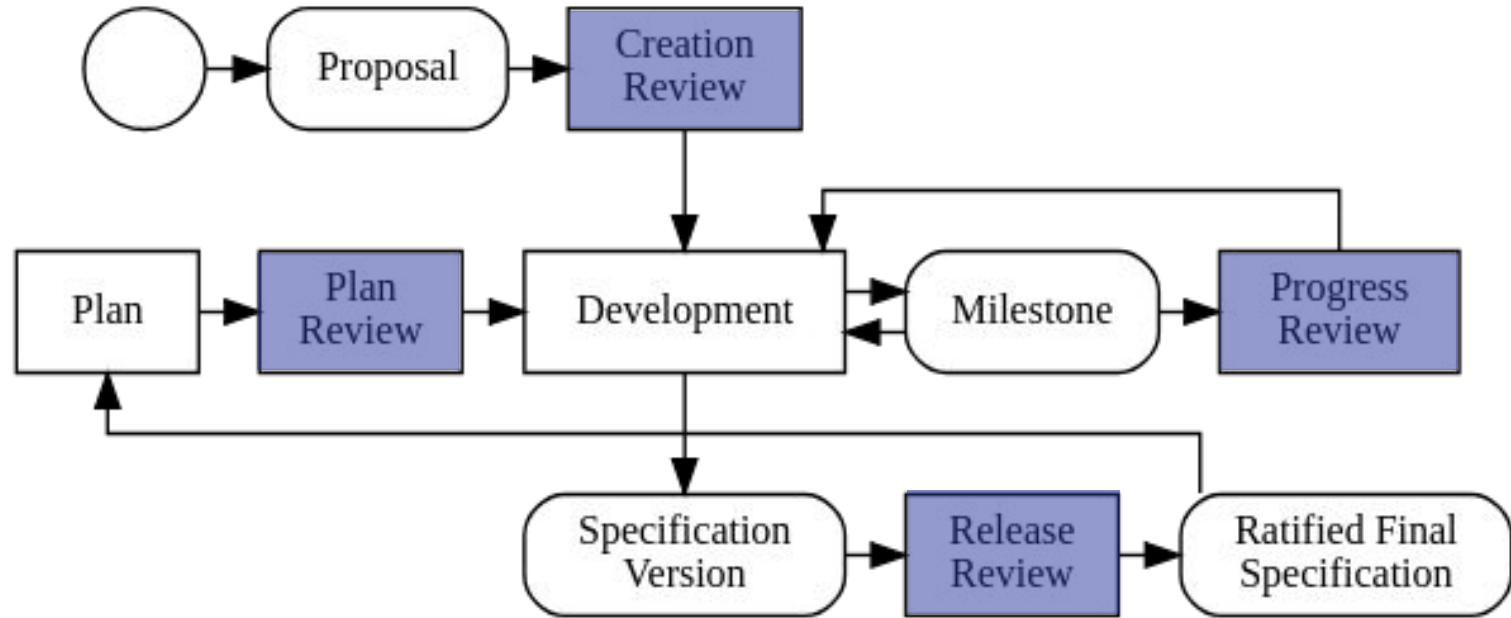
**Collaborative**

Documents and TCKs are **open source**

One or more **Compatible Implementations**

**Self certification**

# Jakarta EE Specification Process





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**A Specification?**

## Final Specification

Specification  
Document

API

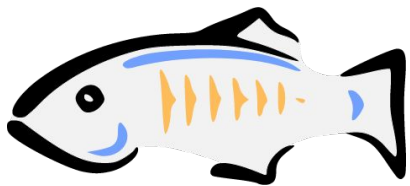
TCK

Compatible  
Implementation(s)



**Compatible Implementations?**





**ORACLE**  
WebLogic Server

FUJITSU Software  
Enterprise Application Platform

 **Open Liberty**

 **Red Hat**  
JBoss Enterprise  
Application Platform

 **payara**<sup>®</sup>  
SERVER

 **JAKARTA™ EE**  
COMPATIBLE

**Tmax** Web Application Server  
**JEUS**



 **Primeton**<sup>®</sup>  
AppServer

 **Apusic**  
Application Server

  
**WildFly**

 **华宇应用服务器**  
Thunisoft Application Server

<https://jakarta.ee/compatibility/>

 **JAKARTA EE**



# Specifications

## Jakarta EE Web Profile



Jakarta EE  
Full Platform





# Jakarta EE 8 - Powered by Participation

On September 10, 2019, a diverse community of leading Java organizations and developers delivered a new baseline for the evolution and innovation of enterprise Java technologies under an open, vendor-neutral process.

## Jakarta EE 8 Delivers...

Full Compatibility with  
Java EE™ 8

Open Specifications

Open Source TCK  
License and Process

Compatible  
Implementations

Platform Integration  
Requirement Parity with  
Java EE 8

A Fully Transparent  
Branding Process





**2019 Duke's Choice Award Winner**

# JAKARTA EE

Fully Open Source Cloud Native Java

- The evolution and innovation of enterprise Java technologies under an open, vendor-neutral process
- Delivers open source Full Platform and Web Profile specifications, related Technology Compatibility Kits (TCKs), and compatible implementations



# Jakarta EE 9

## Jakarta EE 9 Release includes:

- Move to *jakarta* namespace (referred to as the “big bang” approach);
- Remove of unwanted or deprecated specifications;
- Minor enhancements to a small number of specifications;
- No new specifications, apart from specifications pruned from Java SE 8 where appropriate; and
- Java SE 8 support.



# Lower Entry Barriers



# Platform for Innovation



# Easy Migration







# Namespaces

javax.\* -> jakarta.\*

# Jakarta EE 9.1

## Jakarta EE 9.1 Release includes:

- Java SE 11 support
- Multiple compatible implementations to be used for the ratification of the final specs!
  - [compatibility certification request for Jakarta EE 9.1 release](#)



# Individual Specifications Development and New Profile

- Great number of [individual specifications](#) [teams have provided the plan review](#) for the next release!
- Jakarta Config - new specification proposal
  - [project link](#)
- [Jakarta EE Core Profile](#)
  - New profile targeting smaller runtimes



*Jakarta Security 3.0*  
*Jakarta Authorization 3.0*  
*Jakarta Persistence 3.1*  
*Jakarta XML Web Services 4.0*  
*Jakarta SOAP with Attachments 3.0*  
*Jakarta XML Binding 4.0*  
*Jakarta Authentication 3.0*  
*Jakarta Faces 4.0*  
*Jakarta JSON Processing 2.1*  
*Jakarta Mail 2.1*  
*Jakarta Activation 2.1*  
*Jakarta RESTful Web Services 4.0*  
*Jakarta JSON Binding 3.0*  
*Jakarta MVC 2.1*  
*Jakarta Connectors 2.1*  
*Jakarta Concurrency 3.0*  
*Jakarta Servlet 6.0*  
*Jakarta JSP 2.0*  
*Jakarta Websocket 2.0*  
*Jakarta Standard Tag Library 3.0*  
*Jakarta Jakarta EL 5.0*





# Jakarta EE 10 work is taking shape!

- [GitHub discussions](#)

① EE10 Direction Statement **EE10**

#352 opened 21 hours ago by starksm64

① Need to define how specification TCKs that reference other specification containers are handled **EE10**

#339 opened 7 days ago by starksm64

① Create guidance on how to produce standalone TCKs **EE10**

#333 opened 13 days ago by starksm64

① Define how the independent release of profiles should work **EE10**

#332 opened 13 days ago by starksm64

① Settle on the Java SE version requirements for EE 10 profiles **EE10**

#331 opened 13 days ago by starksm64

① We need to define the JPMS strategy for EE10 and beyond **EE10**

#329 opened 14 days ago by starksm64

① Platform Core Architecture **EE10** **architecture**

#3 opened on Jan 10, 2019 by mkarg



## Jakarta EE 10

Slimming down for the clouds!



# What's Next for Jakarta EE?

Targeting:  
Q1/ Q2 2022

Eclipse GlassFish 7.X



Jakarta EE 10

Community driven innovation release:  
Jakarta Config  
Jakarta EE Core Profile independent individual specification development

Eclipse GlassFish 6.1



Jakarta EE 9.1

Java SE 11  
Multiple Compatible implementations available on the release date

Eclipse GlassFish 6.0



Jakarta EE 9

New *jakarta* namespace  
Java SE 8  
Removal of deprecated specs



Eclipse GlassFish 5.1



Jakarta EE 8



*javax* namespace  
New process  
New licensing  
New logo

Eclipse GlassFish 5.1



Java EE 8

Eclipse Foundation infrastructure



Sources, TCKs, Docs



GlassFish 5.0



Java EE 8

Oracle infrastructure





# 2021 Jakarta EE Developer Survey Report

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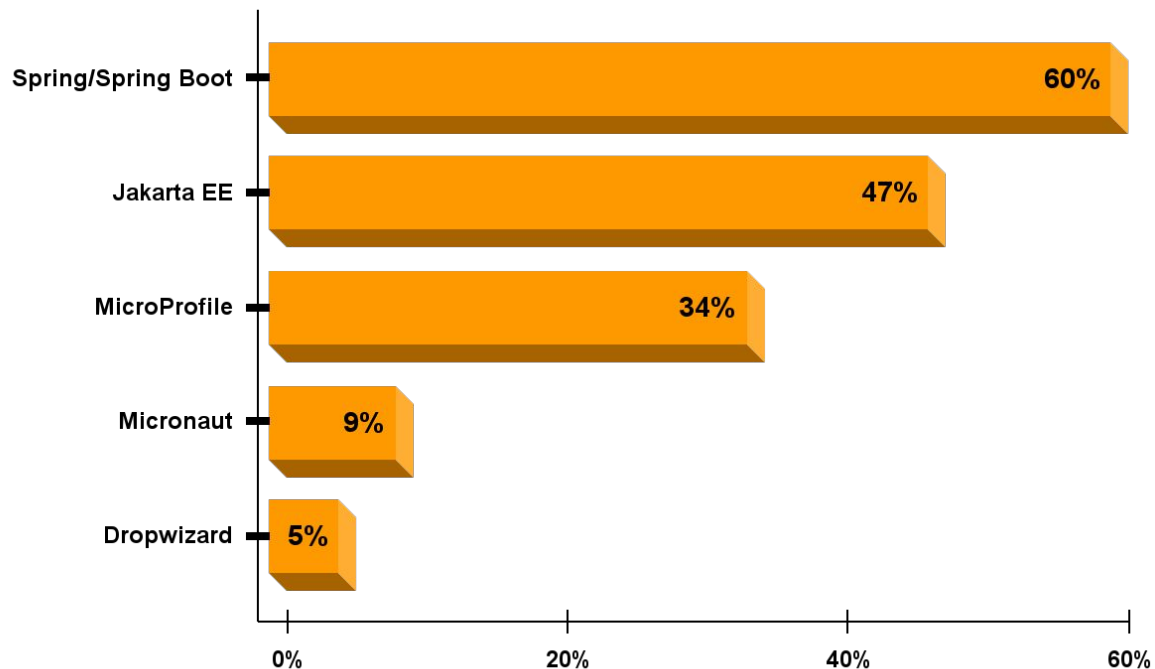
[Full Report](#)

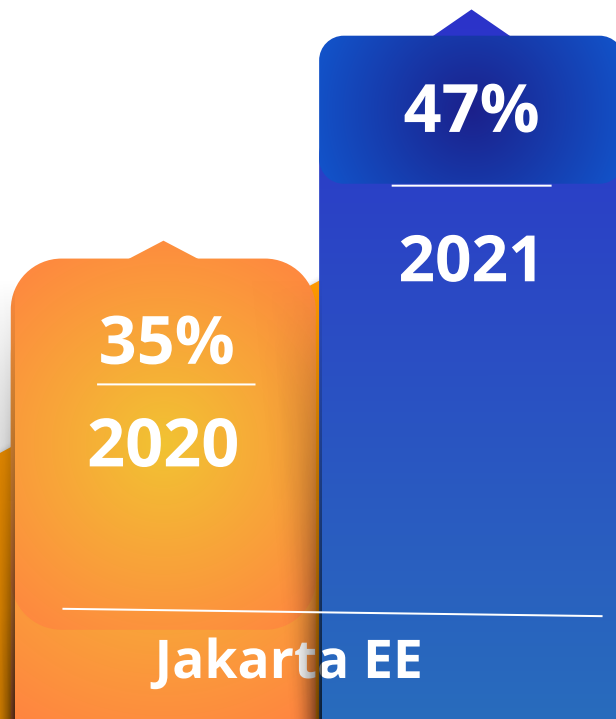
## Some Points from Executive Summary

- **Java EE 8, Jakarta EE 8 & Jakarta EE 9** hits the mainstream with **75% adoption**.
- **Over 48%** of respondents have either already **migrated to Jakarta EE** or **plan to** within the next 6-24 months.
- **Jakarta EE is emerging as the second place cloud native framework** with **47%** usage in this year's survey.



**Spring/Spring Boot** continues to be the **leading framework** for building cloud native applications (60%), with its share increasing by 16 points (up from 44% in 2020).





With the delivery of Jakarta EE 9 in December 2020, Jakarta EE continues to fulfill its promise of **accelerating business application development for the cloud**, emerging as the second most used cloud native framework at 47% in this year's survey.

# MicroProfile Working Group

## MICROPROFILE

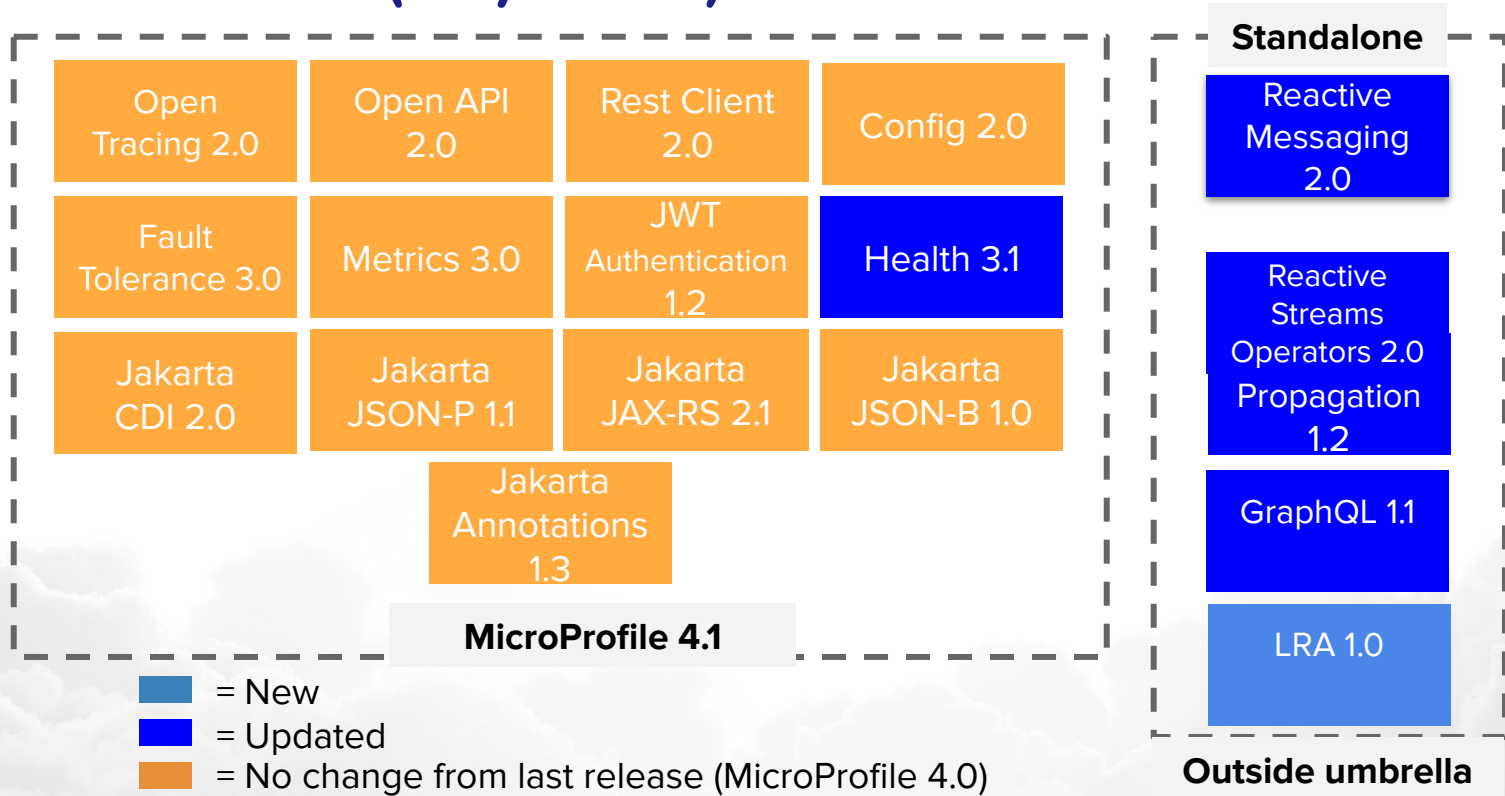
Specifications for enterprise Java  
microservices



- Use the same specification process as Jakarta EE
- Use the same intellectual property framework as Jakarta EE
- Funded by Jakarta EE Working Group, by direction of the Jakarta EE Steering Committee.



# MicroProfile 4.1 (July 2021)



# JakartaOne Livestream events - 2021

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<https://jakartaone.org/>

## 5 Events:

JakartaOne Livestream Russia  
JakartaOne Livestream Turkish  
JakartaOne Portuguese  
JakartaOne Spanish

## JakartaOne Livestream 2021 - Dec 7

- <https://jakartaone.org/2021/>



# JakartaOne Livestream events - 2020 Summary

**2642**

**Registered Attendees**

**1521**

**Attended Live**

**913**

**Watched Replay**

**1393**

**YouTube Playlist Views**  
(As of Jan 11, 2021)

## **5 Events:**

JakartaOne Livestream Japan - February 26, 2020  
JakartaOne Livestream CN4J - May 12  
JakartaOne Brazil - August 29  
JakartaOne in Spanish - October 12th  
JakartaOne Livestream 2020 - Dec 8

## **83 Speakers:**

- **9 Keynotes**
- **34 Technical Talks**
- **18 Vendor Presentations**
- **45 hrs**







# Get Involved

**Become an  
Eclipse  
Foundation  
Member**

**Join the  
Jakarta EE  
Working Group**

**Participate in  
open source,  
Cloud Native  
Java**



# What Can You Help With?

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**Marketing/Promo**



**Technical Work**



**Collateral Work**



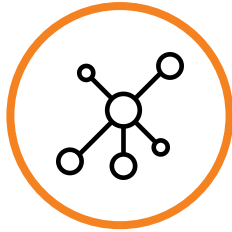
**Bug Reporting**

# Connect with us!

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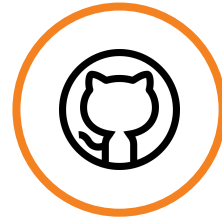


[Mailing lists](#)



[Upcoming Events](#)

Submit [here!](#)



[GitHub EE4J](#)

[Pull Request & issues](#)

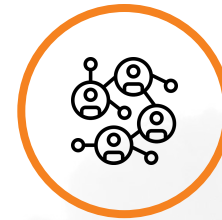


[Jakarta EE Development](#)

[Slack Workspace](#)



[Blog Posts](#)



[Virtual Meetups](#)

[Jakarta Tech Talks](#)



# Get involved with Jakarta EE Specification Projects Easily!



## Contributor

Just execute the [Eclipse Contributor Agreement](#)



## Committer

Once you become a Committer, EF will guide you through the process!





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LEARN MORE



<https://bit.ly/39TfMVz>





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JAKARTA EE

**Thank you!**



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@TanjaEclipse