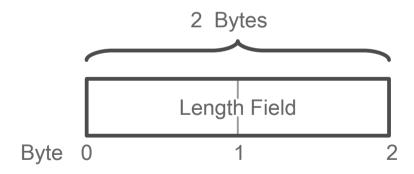


ANGRY BIRDS & HALF-WORDS

MOBILE & THE MAINFRAME

Geoff Pirie – IBM Hursley, UK. CICS Transaction Server





NEW DEVICES
ON CHRISTMAS DAY

17.4
MILLION

ANDROID + 10S TABLETS & SMARTPHONES

CHRISTMAS WEEK

DECEMBER 22-29





CHRISTMAS DAY

AILLION ANGRY BIRDS DOWNLOADS

DECEMBER 25



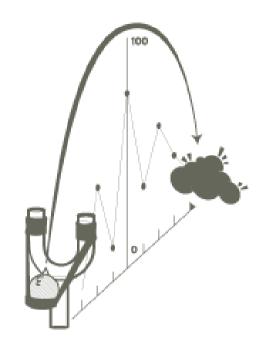


1 ANGRY BIRDS DOWNLOAD

FOR EVERY NEW DEVICE

*STATISTICS COURTESY OF FLURRY

BILLION DOWNLOADS



#1 in 79
COUNTRIES



300
MILLION
minutes played per day



ONEWikipedia a month!



The reason?

1) There are a lot of mobile devices

2) We spend a lot of time using those devices

3) We really hate green pigs! ;-)

1.038 BILLION SMARTPHONES IN USE



that's 1 out of every 6.7 people on the planet.

FIVE TIMES MORE
LIKELY TO
ABANDON THE TASK
IF THE SITE ISN'T OPTIMIZED
FOR MOBILE.

79%
WILL SEARCH
FOR ANOTHER SITE TO
COMPLETE THE TASK.

MEDIA TABLET SALES

in 2012 118.9 MILLION

by 2016 369.2 MILLION tablets we will be sold

MORE PEOPLE WILL USE
MOBILE PHONES THAN
DESKTOP PCS TO GO ONLINE.

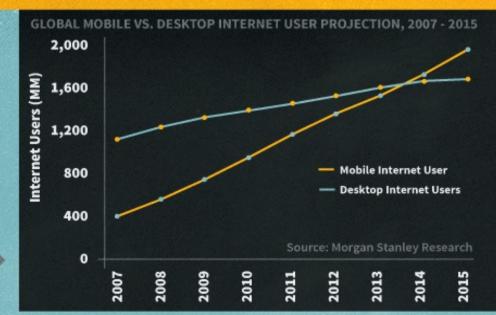


IN THE LAST 16 YEARS

97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14

1 BILLION

THE NEXT
ONE BILLION
WILL BE SOLD
IN JUST THE
NEXT 2 YEARS



0

Shopping / Commerce

Global Stats

by 2016
MOBILE COMMERCE
is expected to grow to

5 TIMES
its current size

448 MILLION
M-Payment users,

\$617 BILLION

Global mobile transactions in 2011 were around \$241 BILLION

by 2015
Global mobile
transactions
will grow to more than
\$1 TRILLION

Retailers

52%
of surveyed retailers
DO NOT YET HAVE A
MOBILE OPTIMIZED
WEBSITE



PayPal™
estimates

From BILLION
IN MOBILE SALES
in 2012



\$10 BILLION

Going Places:

MOBILE TICKETS (M-TICKETING) FOR TRAVEL AND ENTERTAINMENT



in 2015 1 in 8

MOBILE SUBSCRIBERS WILL USE M-TICKETING

for airline, rail and bus travel, festivals, cinemas and sports events.

By 2015 over

750 MILLION

users will either have a ticket delivered to their mobile phone or buy a ticket with their phone



230 MILLION today.

Ticket delivery will be by SMS, bar codes, mobile web, smartphone apps or NFC.

Healthcare:

The mobile health technology market including devices, applications, and services

SO DILLION

by 2018

70%

of available healthcare apps are consumer focused.

are designed for medical professionals

Insurance:

Only
22%
of insurers have a mobile quoting app

Financial Services:

47 MILLION
Americans used
MOBILE BANKING
by next year, more than

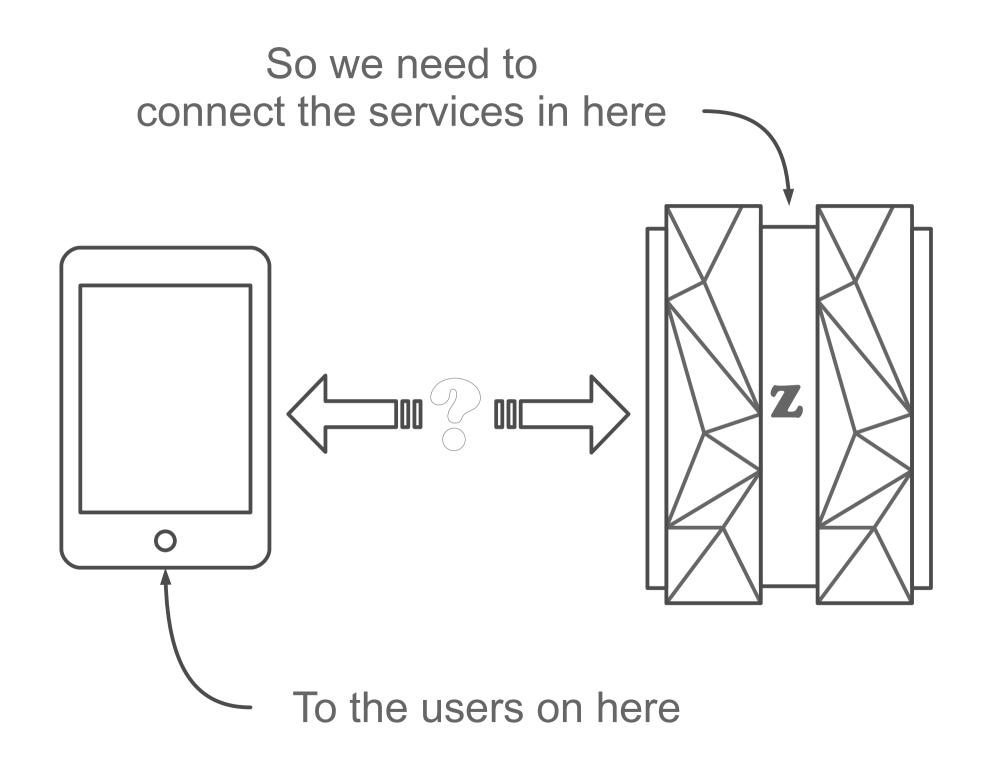
61 MILLION
Americans will use mobile banking

MOBILE BANKING users in the U.S. in the next will

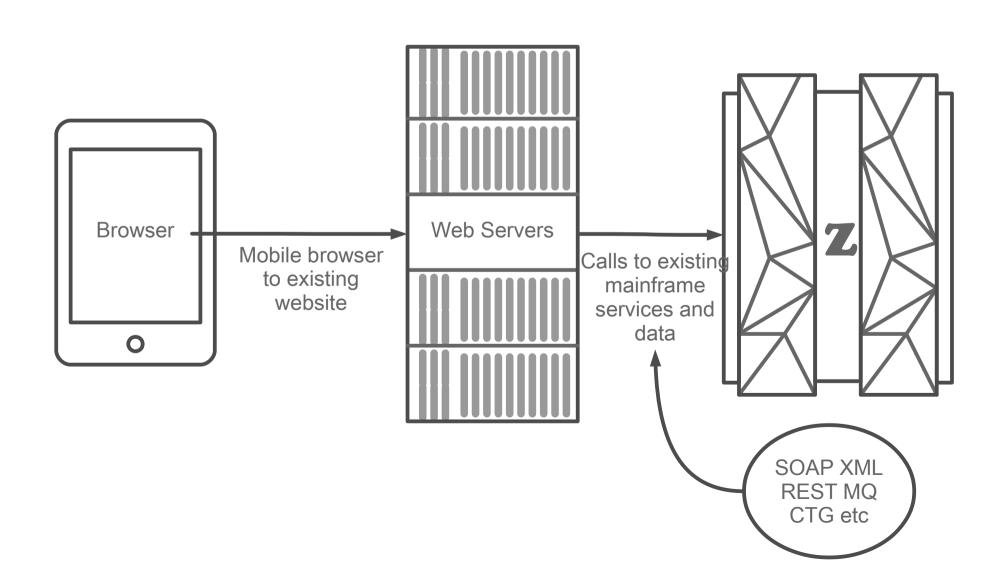
DOLLRIF in the next

and reach 108 MILLION

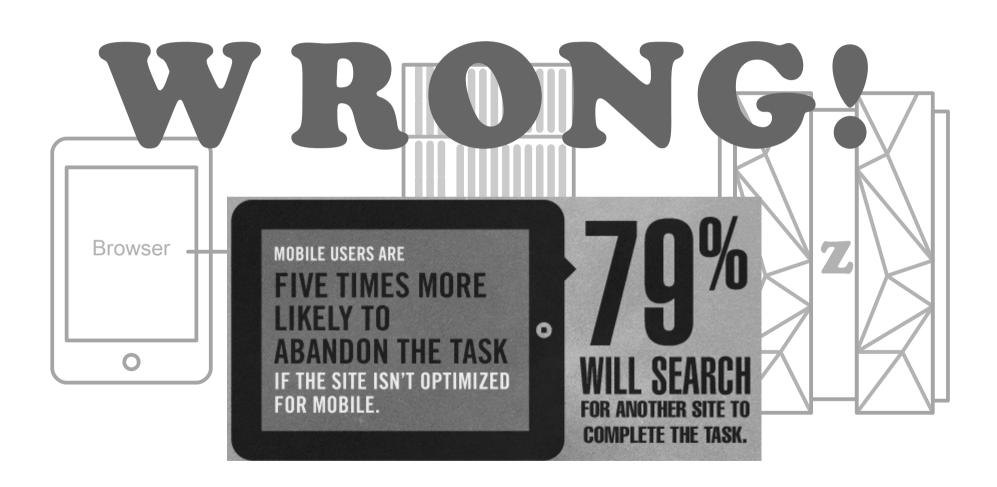
by 2017.



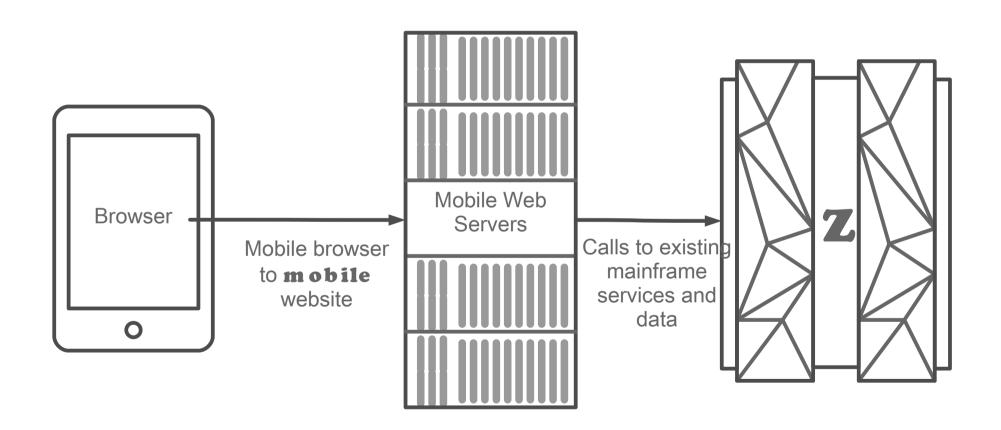
Easy! Mobile is just like the web right?



Easy! Mobile is just like the web right?

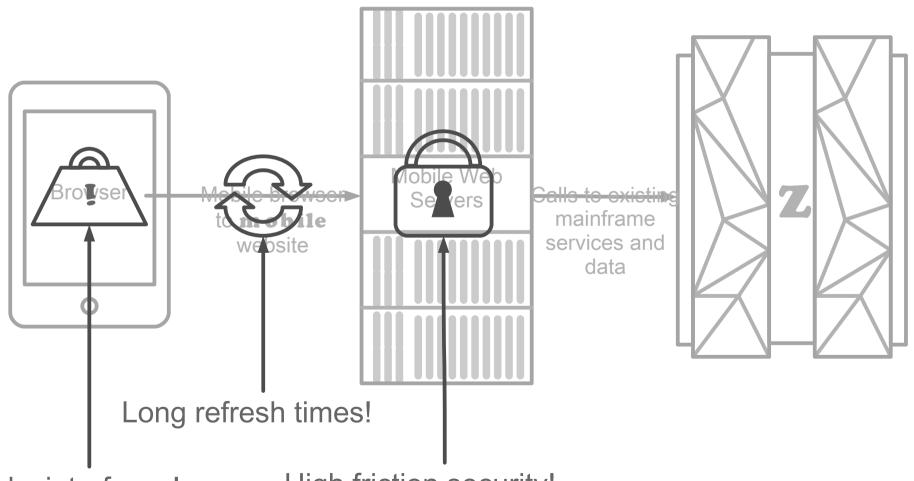


Ok... Re-style for a mobile website



Ok... Re-style for a mobile website **Better...**

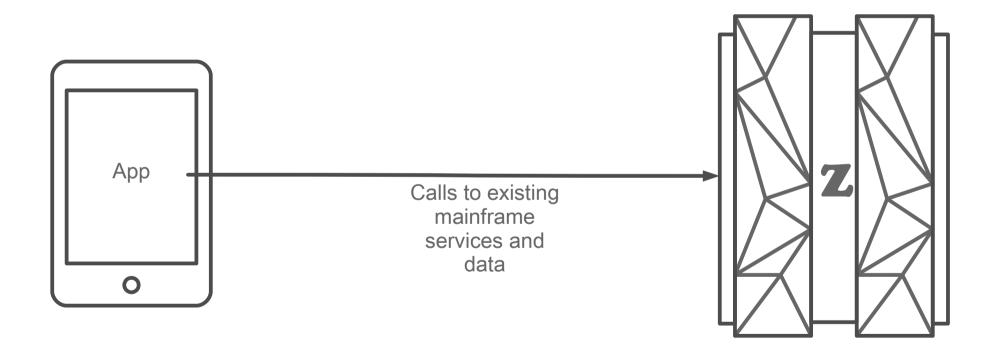
But not quite as good as an App!



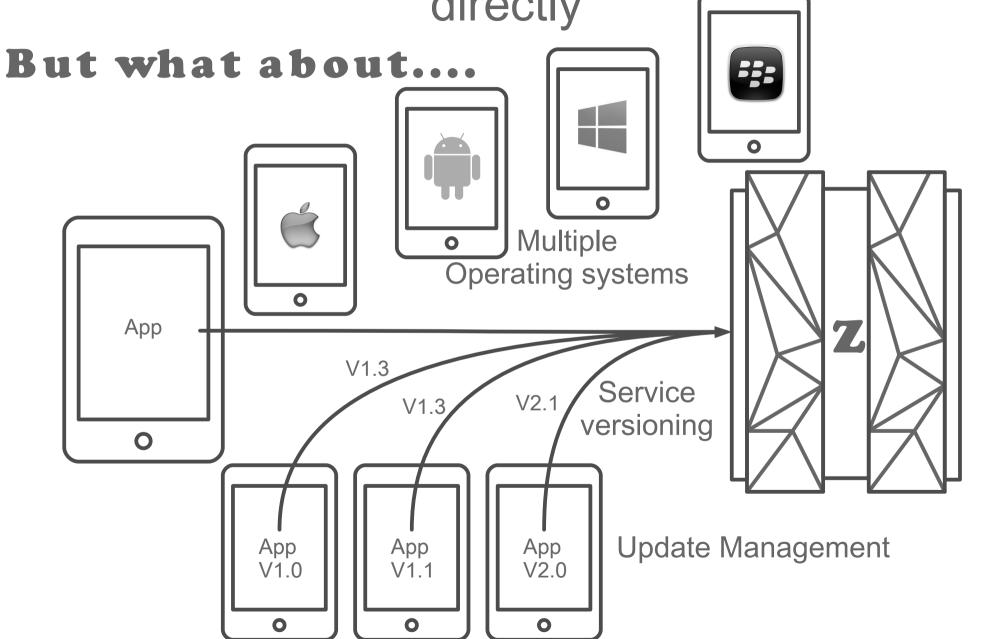
Clunky interfaces!

High friction security!

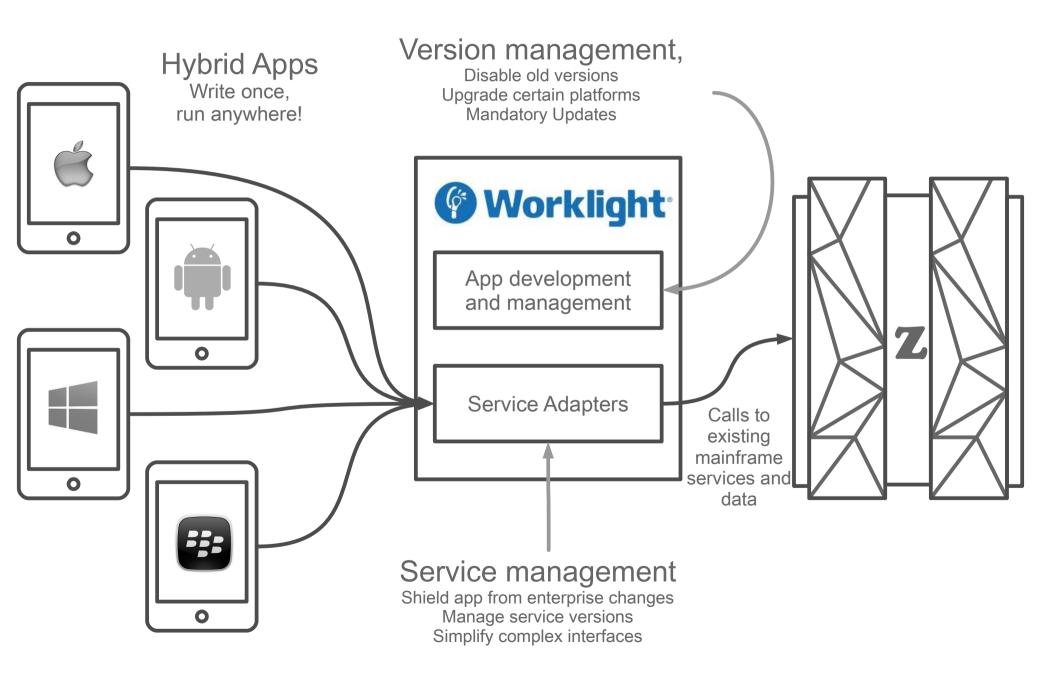
So... Lets write an app that calls the services directly



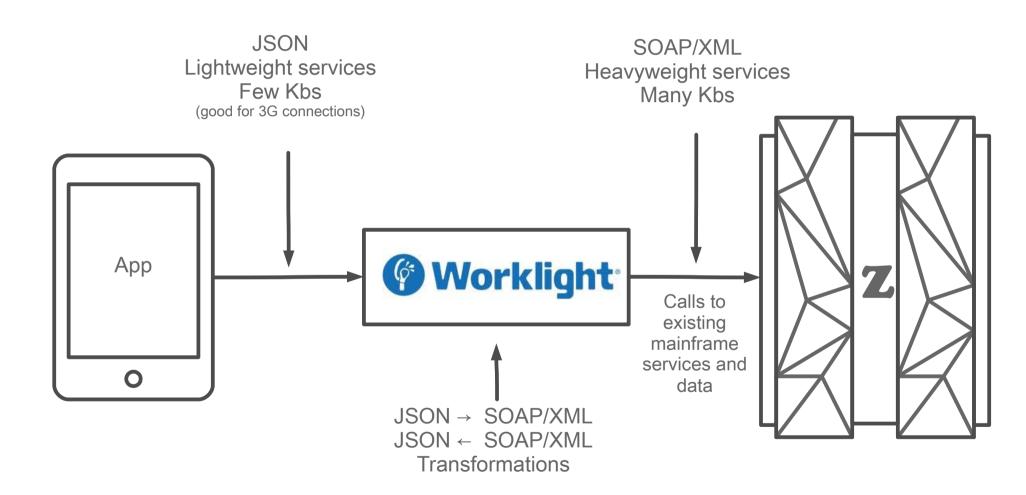
So... Lets write an app that calls the services directly



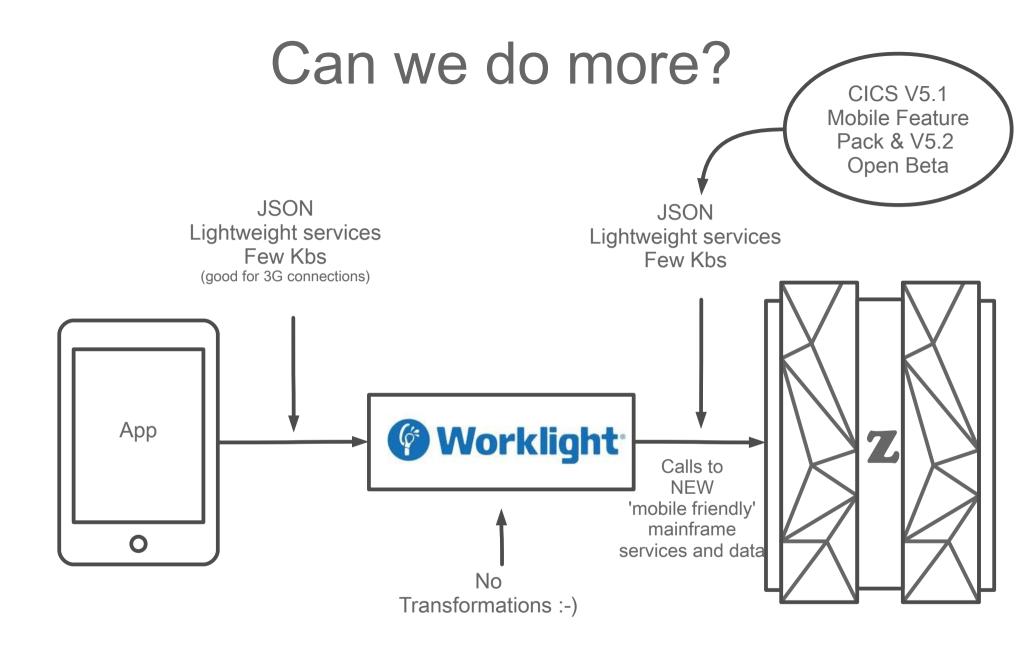
We need a mobile app platform...



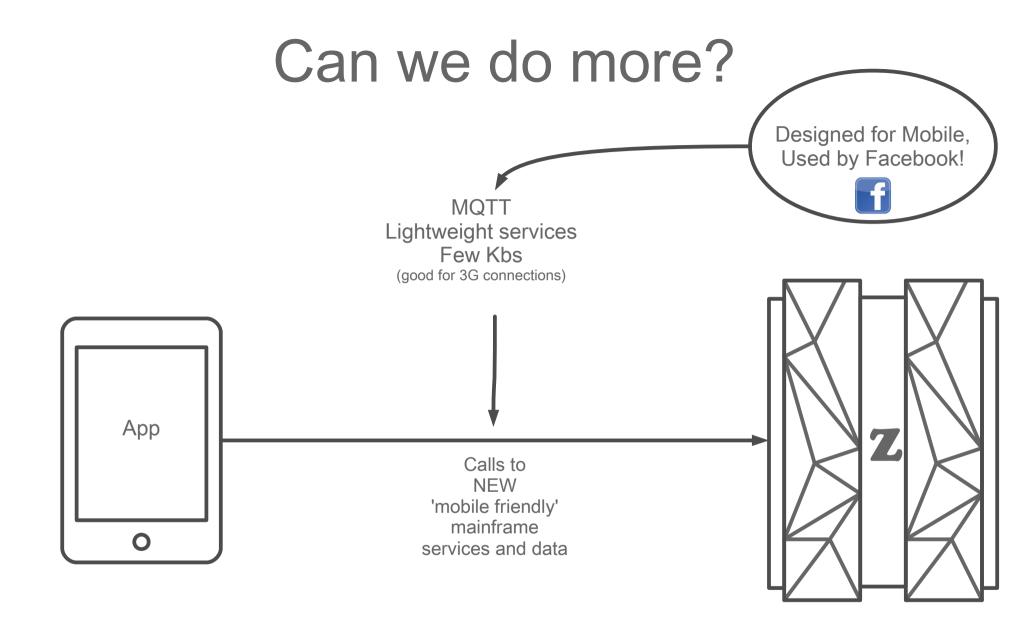
Can we do more?



Takes time and CPU :-(



A better way...



Or something different...

So, you can make 'mobile friendly' services, but...



...the app team want them yesterday!

Improve your processes!

• Incremental delivery with agile principles

Use project
management tools
like RTC to
track work!

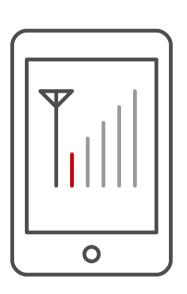
• Faster delivery with cloud style deployment

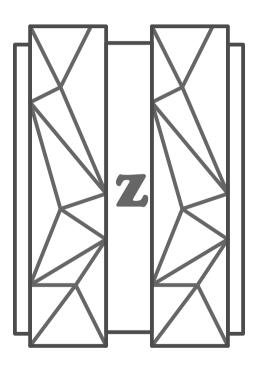
Use the
App and Platform
feature NEW
in CICS V5.1

• Reduce risk with change management

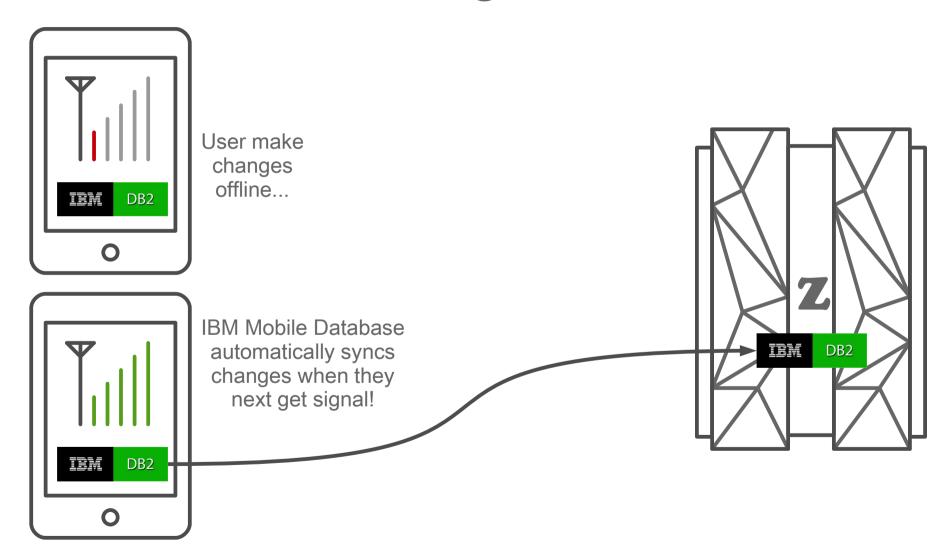


What if the user has no signal?

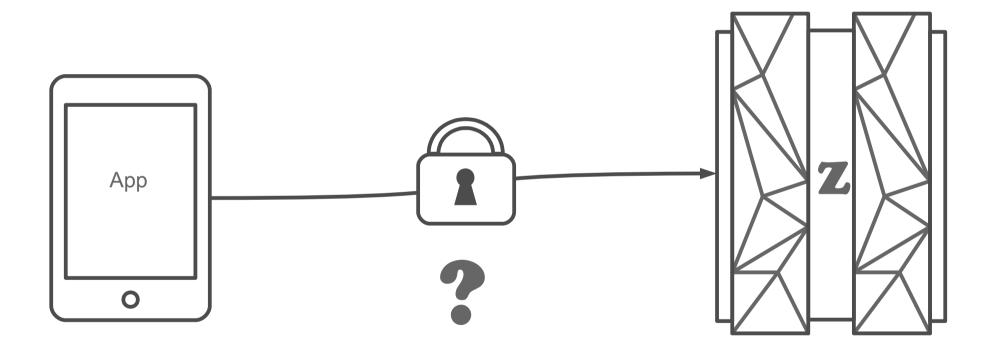




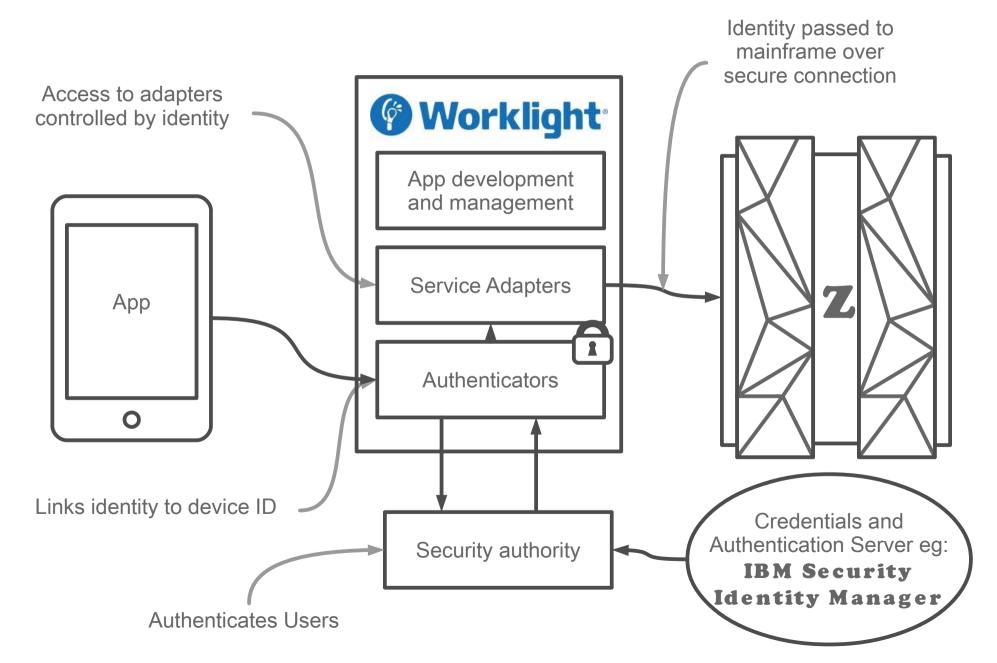
Use IBM Mobile Database to sync offline changes to DB2!



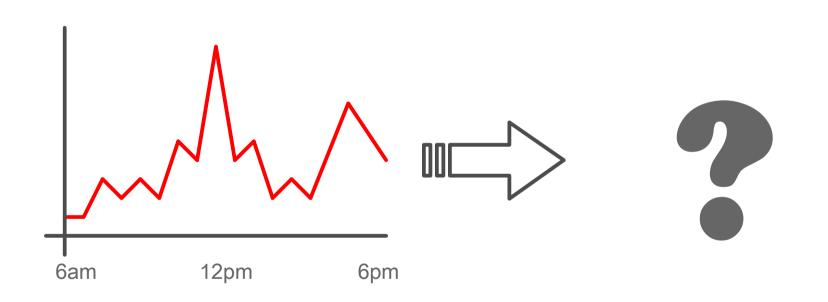
What about security?



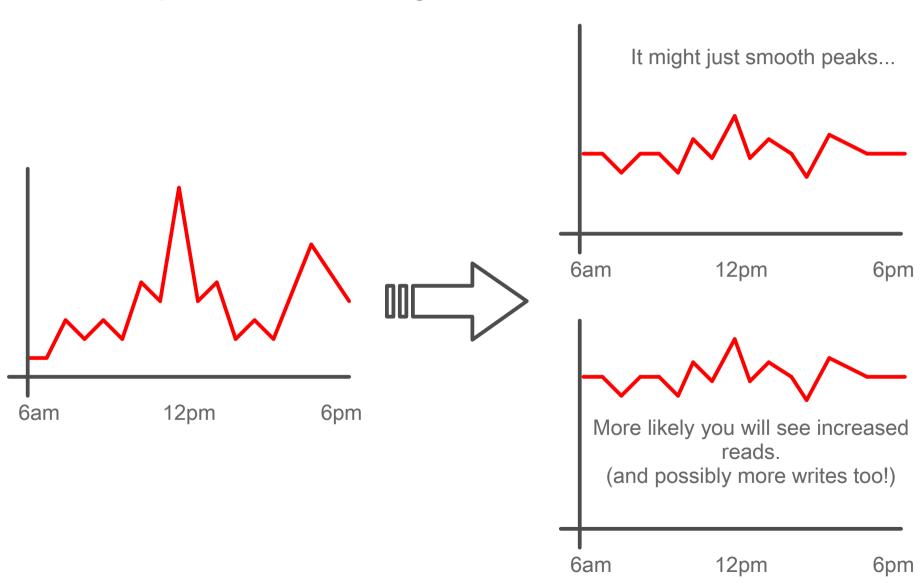
Your app platform should manage it!



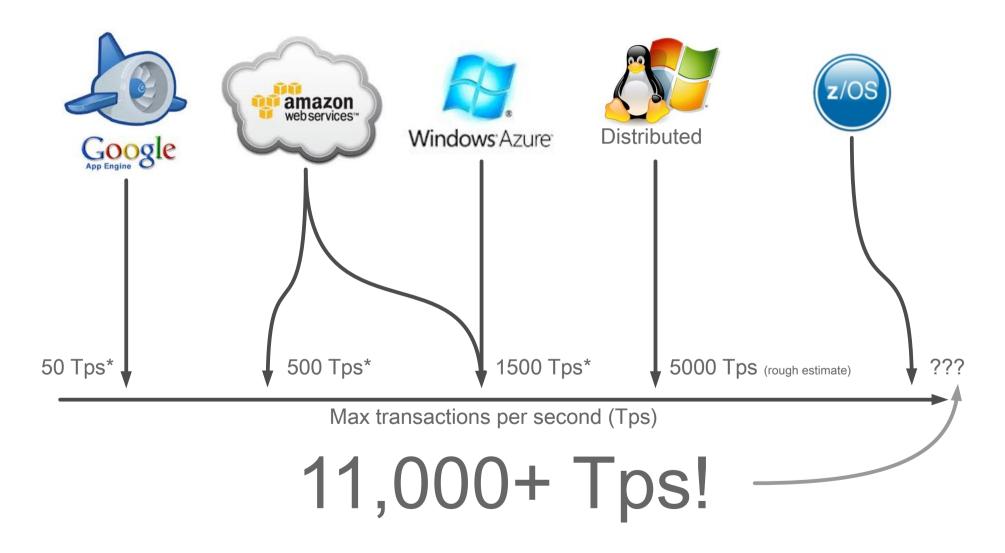
But how will this affect my workload?



It depends on your business...

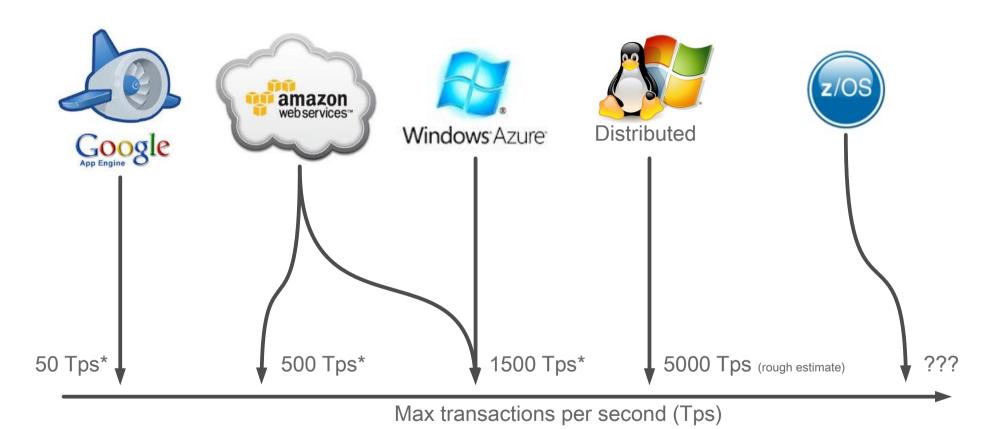


Don't worry, the mainframe can scale!



^{*} Data from "An Evaluation of Alternative Architectures for Transaction Processing in the Cloud", 2010, D Kossmann, T Kraska, S Loesing

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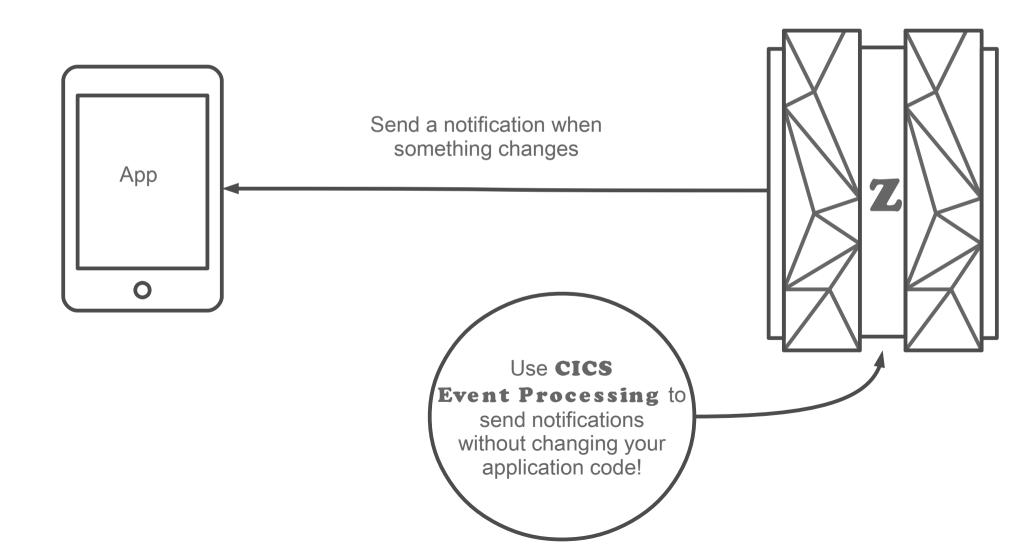
How can we reduce mobile workload?

Most requests from mobiles are 'reads'

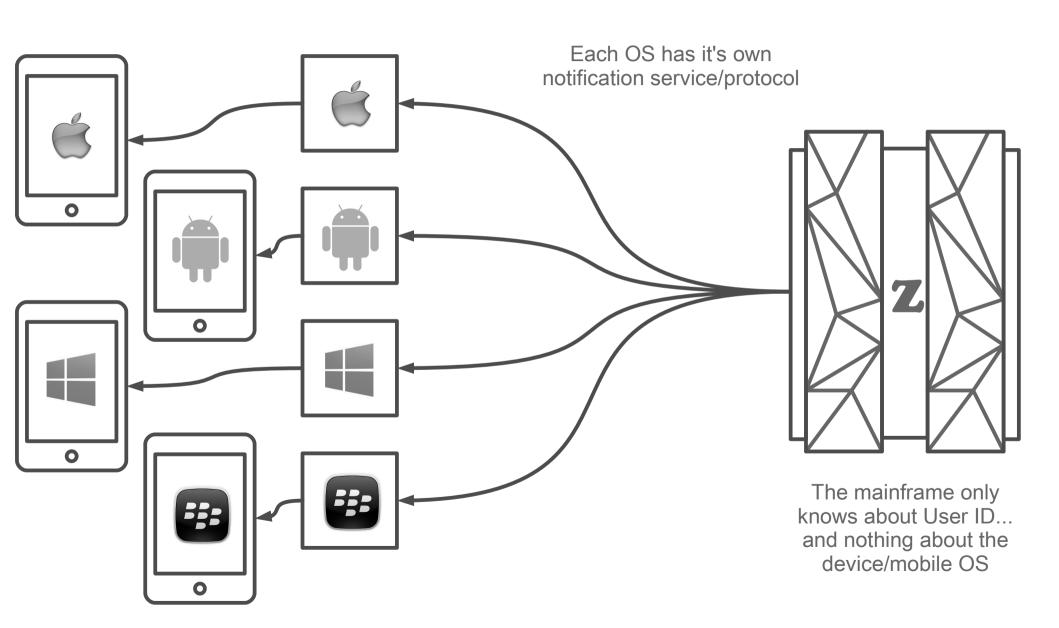
 Mainly from people checking if things have changed

 We would get less 'reads' if we told people when things change...

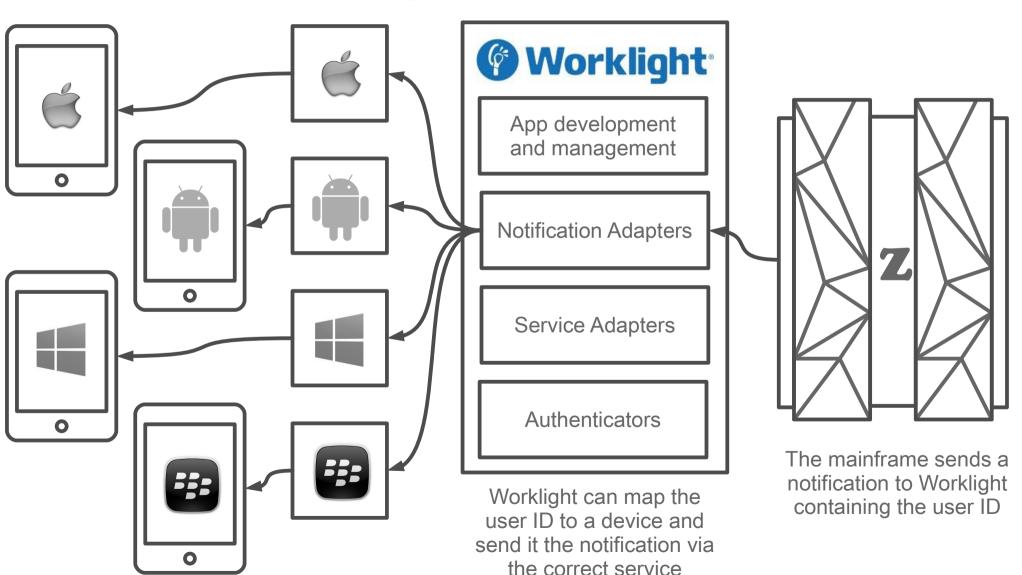
We need notifications!



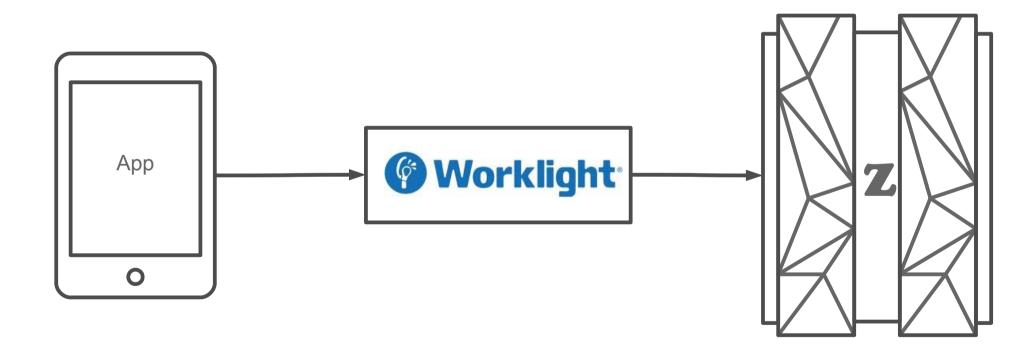
It's not quite so simple...



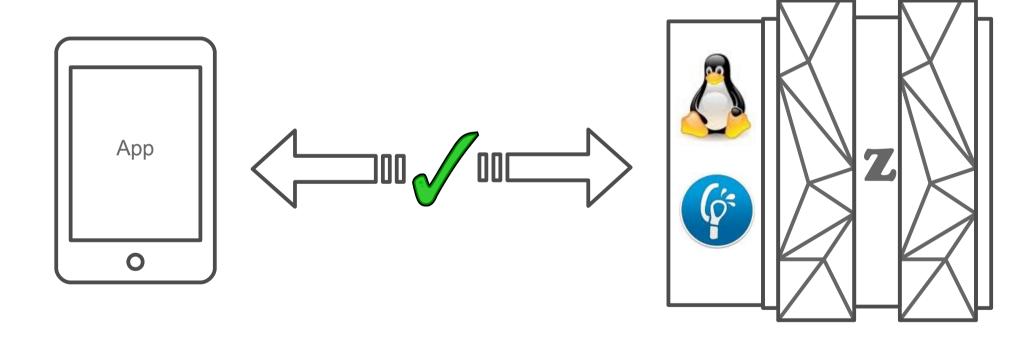
Once again it's a job for the app platform!



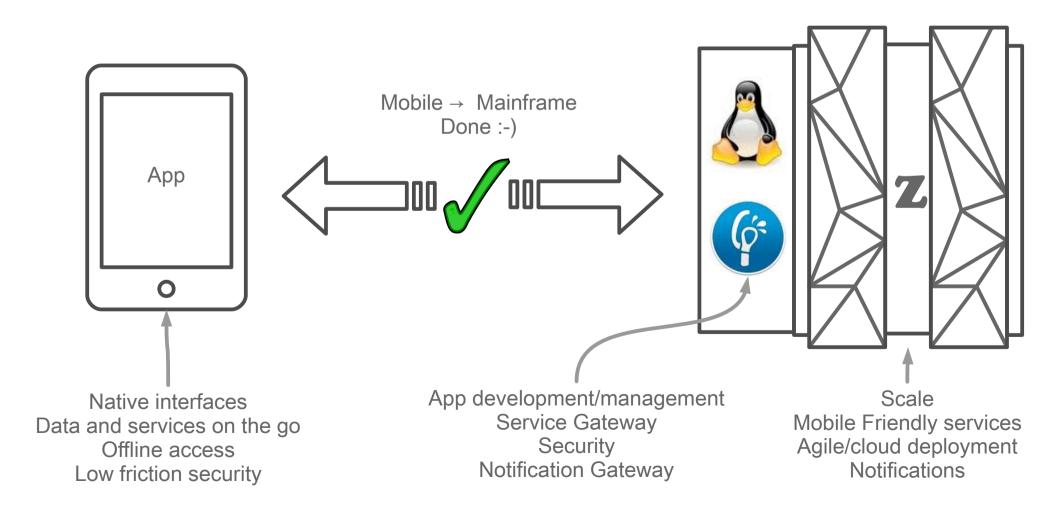
Do I have to buy new servers to run Worklight?



No! Worklight will run on zLinux!

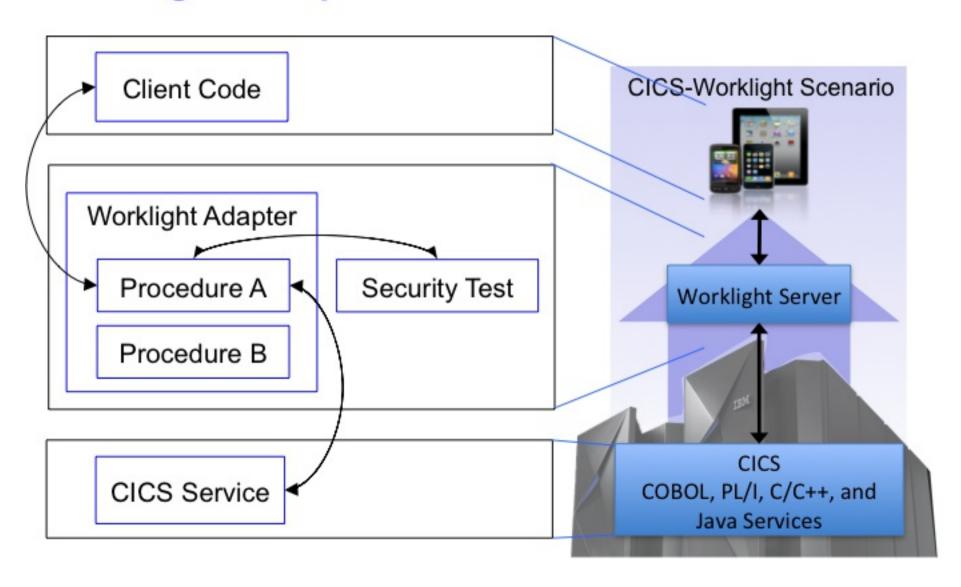


And we're done!

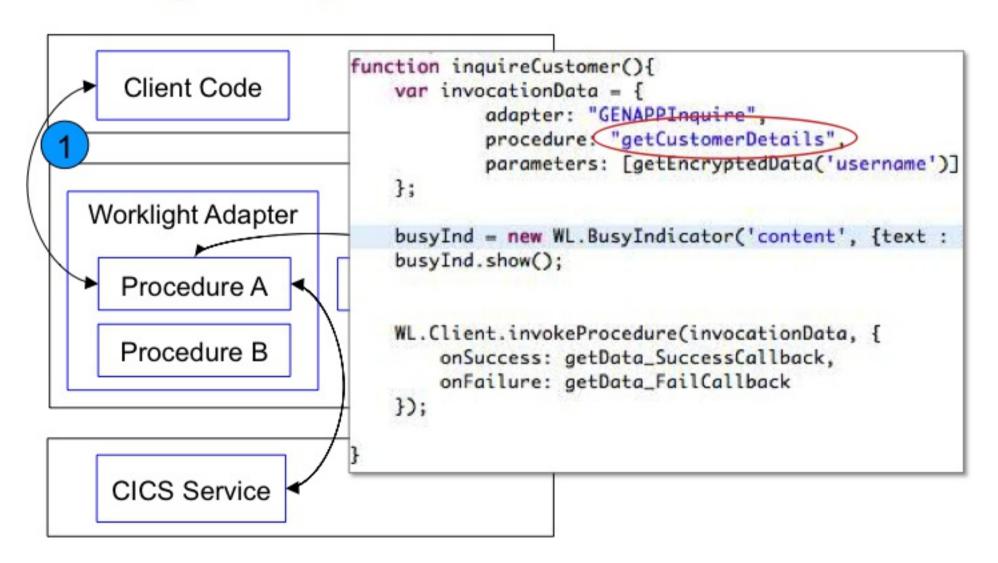


Example of connecting a mobile to CICS services

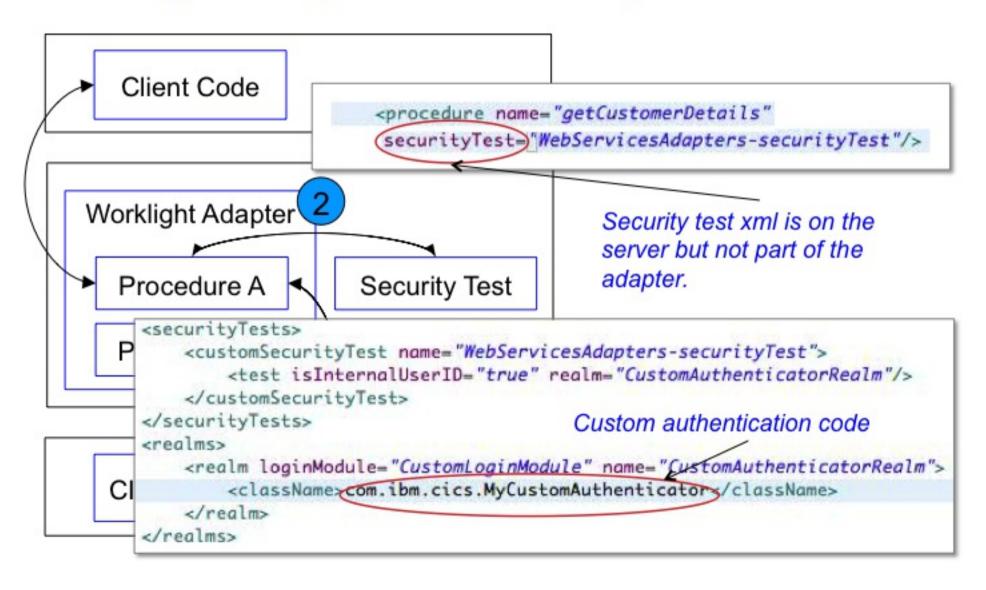
Worklight Components - basic flow



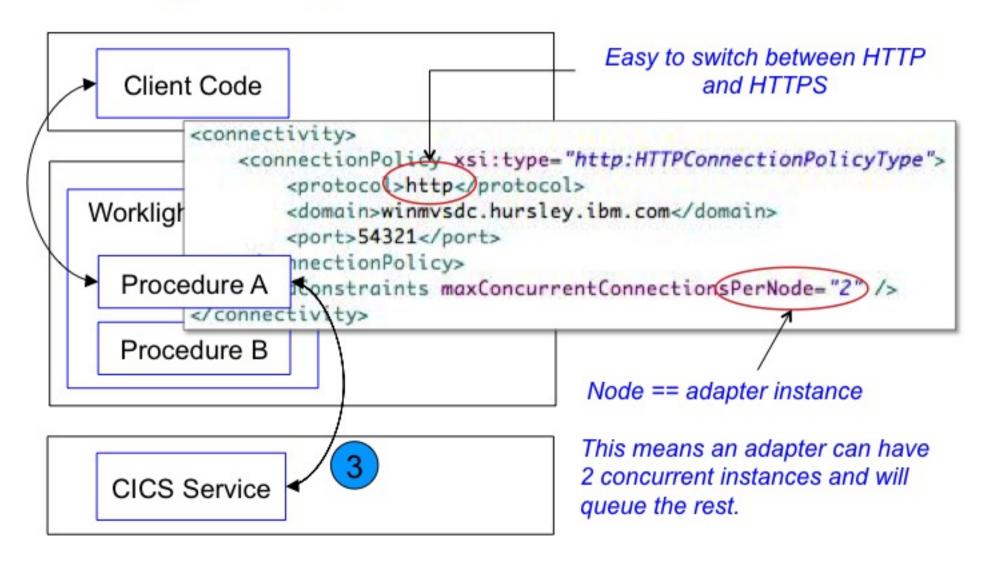
Worklight Components – Client call



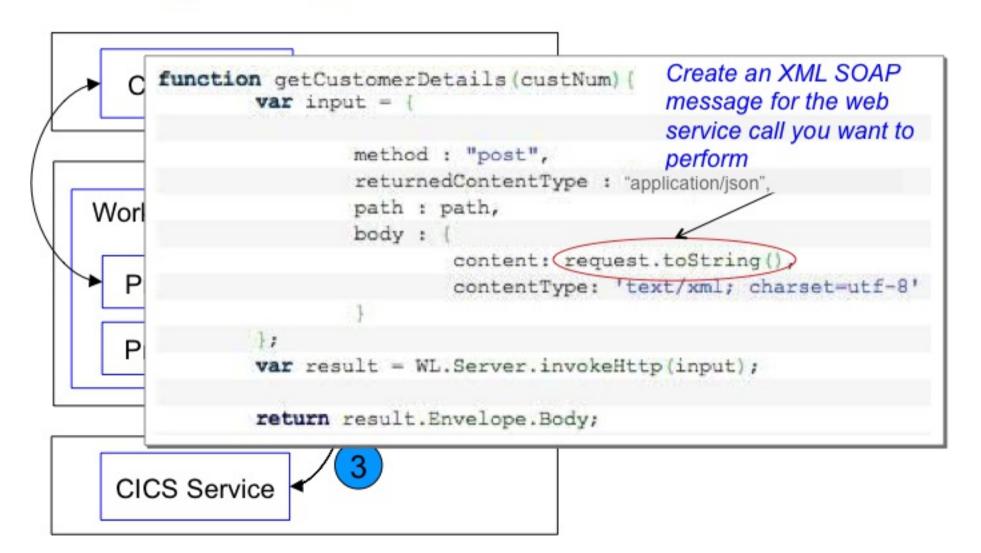
Worklight Components – security check



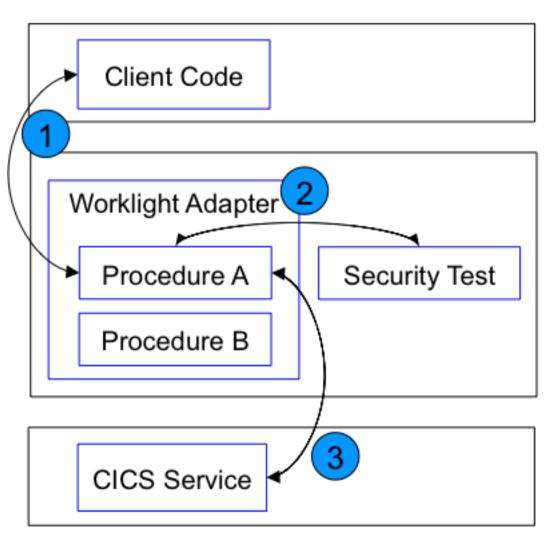
Worklight Components – basic flow



Worklight Components – basic flow



Worklight Components – basic flow



Worklight server provides separation, security, and a variety of mobile services, helping control the impact mobile has on CICS Transaction Server

Thank you for listening Any questions

