

TECHORAMA

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Push Notifications in Xamarin

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@redth



Microsoft



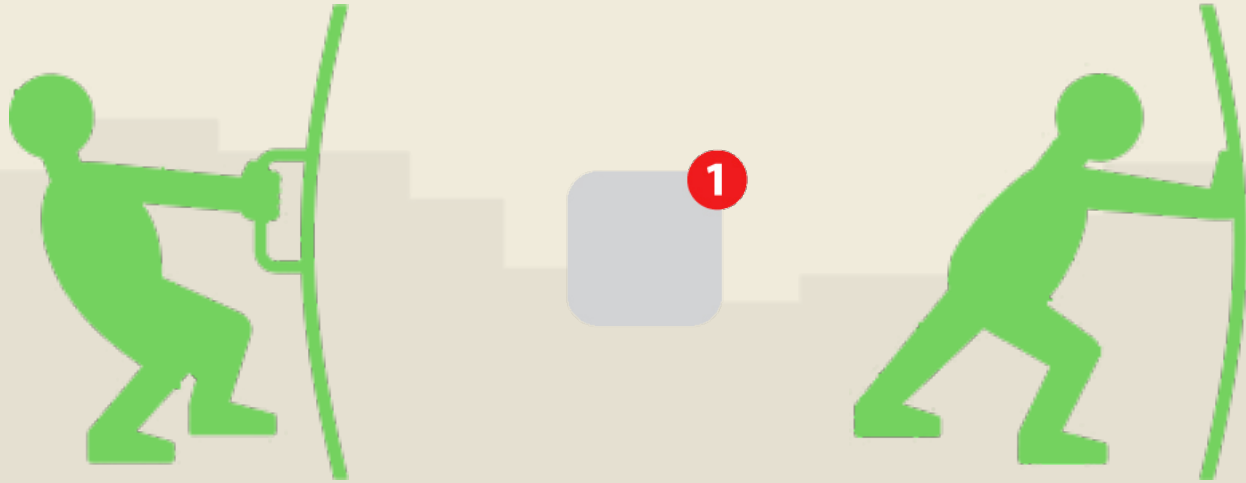
Have an Android Device?

Please download and run *Push Monkey* right now:



<http://tinyurl.com/push-be>

What are Push Notifications?



Why?

- Timely
- Efficient
- Scalable
- Standardized

A bit of History...



'Invented' by
Blackberry

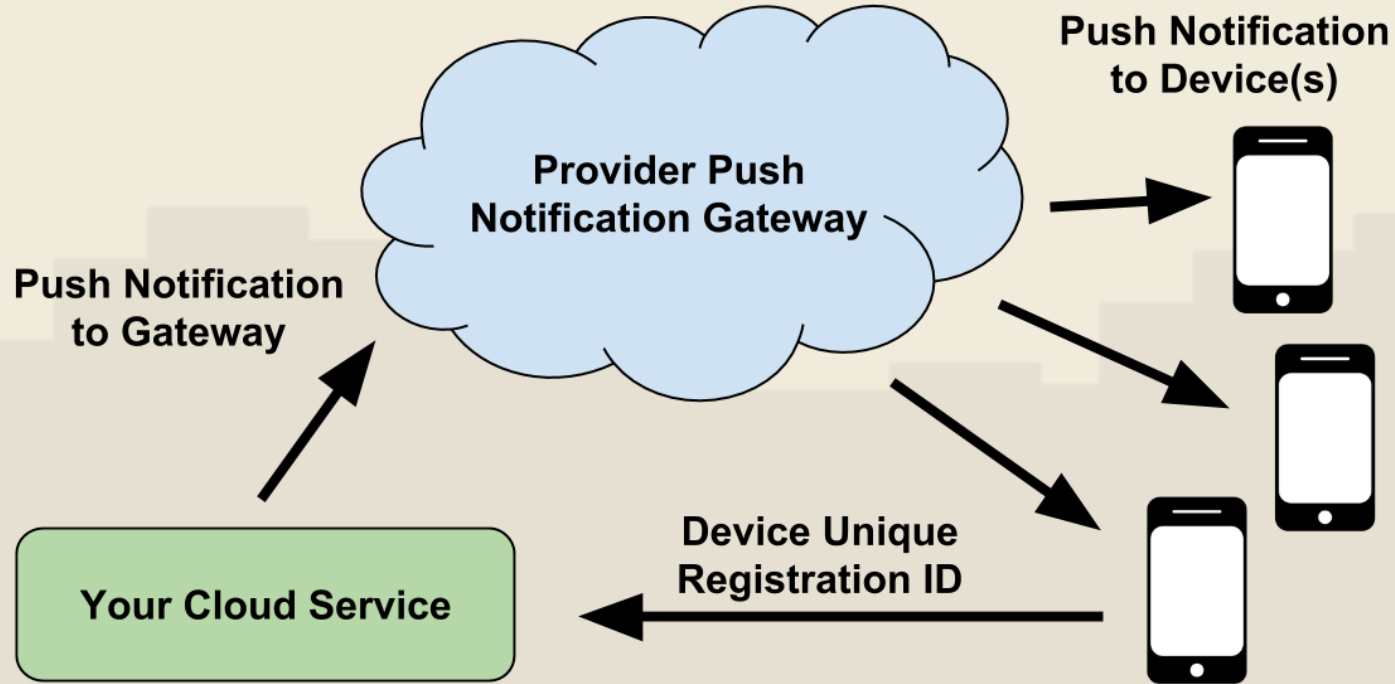


IMAP
'IDLE'



'Reinvented' by
Apple

How do they work?



Apple Push Notification Service



- APNS
- Binary Protocol – There be dragons!
- Predefined Message types
- iOS 7+ – Remote Background notifications



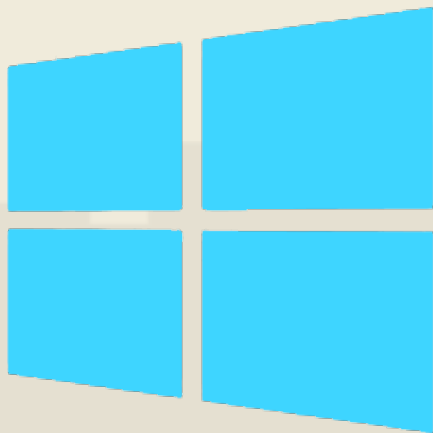
Google Cloud Messaging



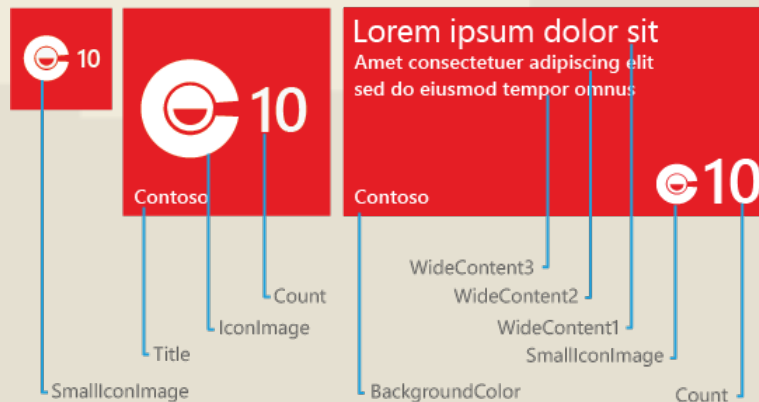
- GCM formerly known as C2DM
- JSON over HTTP
- No predefined UI – Raw key/value pairs
- Amazon Fire OS uses same protocol
- XMPP alternative transport



Windows Notification Service



- WNS, MPNS (for Phone - deprecated)
- XML over HTTP
- Many different templates
 - Tiles, badges, toasts, raw



Other Platforms

- Amazon Kindle Fire OS
- Amazon Fire Phone
- Baidu
- Firefox Phone
- Ubuntu Phone
- Safari
- Chrome
- ...

How to send them

- DIY
- Amazon SNS
- Urban Airship
- Parse
- PushSharp
- Azure

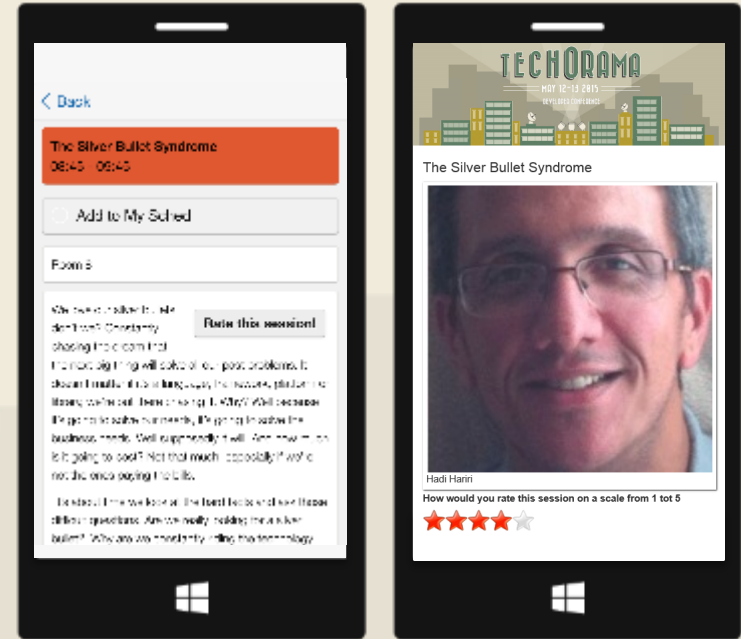
Demo

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