Cloud Based Services Twilio and PubNub
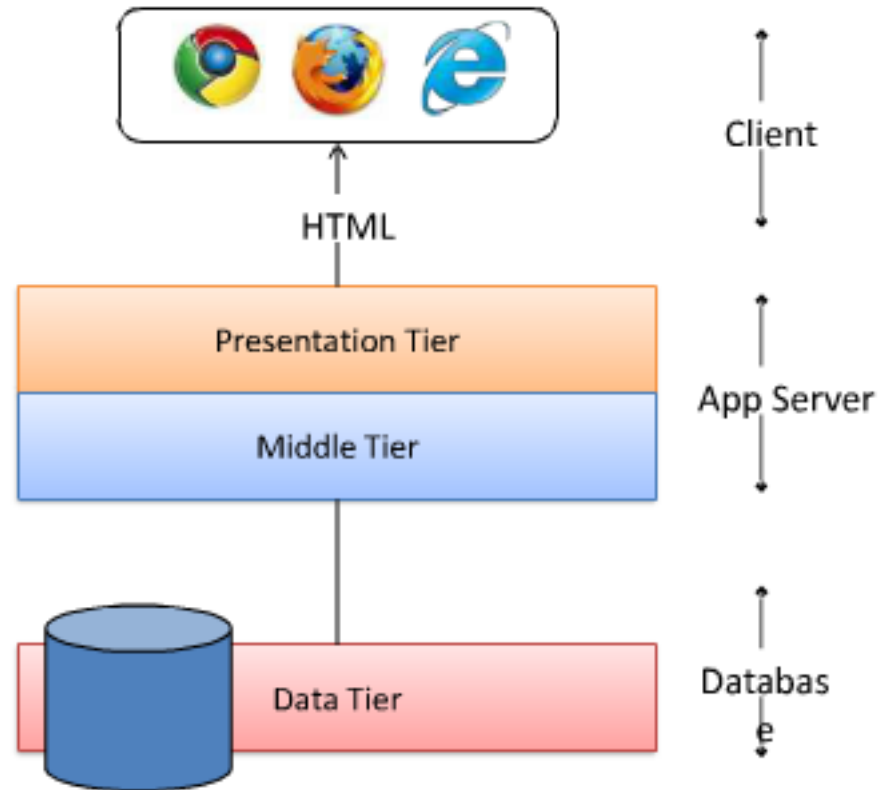
Integration with Portlets

About Me

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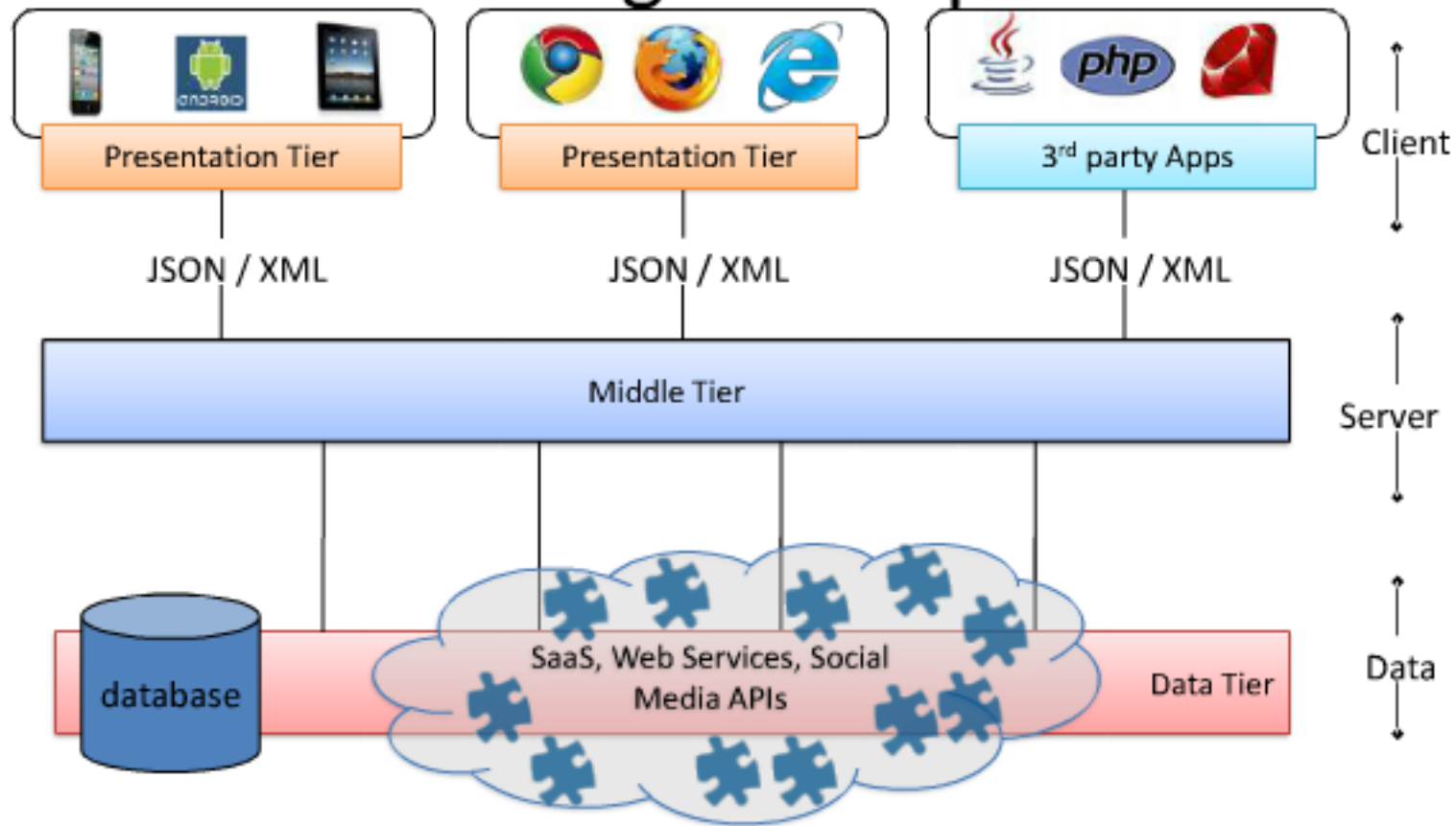Twitter: @PureSrc
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The traditional 3-tier architecture

HTML

Client

Presentation Tier

Middle Tier

App Server

Data Tier

Databas e

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...is being decomposed

Presentation Tier	Presentation Tier	3rd party Apps

JSON / XML   JSON / XML   JSON / XML

Middle Tier

database   SaaS, Web Services, Social Media APIs   Data Tier

Client

Server

Data

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Top 10 APIs

API	Description	Category	Mashups
Google Maps	Mapping service	Mapping	2278
Twitter	Microblogging	Social	622
YouTube	Video sharing and search	Video	585
Flickr	Photo sharing	Photo	583
Amazon eCommerce	Online retailer	Shopping	396
Facebook	Social networking	Social	301
Twilio	Telephony service	Telephony	290
eBay	Online auction marketplace	Shopping	213
Last.fm	Online radio service	Music	201
Google Search	Search services	Search	175

Source: ProgrammableWeb.com, Sept 2011

Infrastructure APIs

There's a lot of really interesting services out there!
- Databases (xeround, mongohq, etc.)
- Email (SendGrid)
- Logging (loggly)
- Error Management   (AirBrake)
- Security (KataSoft)
- Messaging (PubNub)
- File Sharing (Amazon, Dropbox)
- Telephony (Twilio)

PubNub API

With PubNub you can create a pure JavaScript client without the need of any server side technology or you can proxy messages through your server side technology like Java.

PubNub JavaScript

JavaScript - Pub/Sub

```
PUBNUB.publish({
    channel : channel, message : new chat_message(input.
value)
  });

PUBNUB.subscribe({
  channel  : channel,
  callback : function(msg) {
    handle_msg(msg);
  }
});
```

PubNub Java

Java - Pub/Sub

```
// Publish Message JSONArray info = pubnub.publish(
"hello_world", // Channel Name message // JSON Message ); //
Listen for Messages (Subscribe) pubnub.subscribe(
"hello_world", // Channel Name message_receiver // Receiver
Callback Class );
```

PubNub Portlet

Group Chat Portlet integration with PubNub

GitHub:https://github.com/boryaku/pubnub-group-chat/

Documentation: http://puresrc.com/web/guest/knowledge/-/knowledge_base/article/12035

Twilio API

Twilio API requires server side technology in the example portlet coming up you will also need Flash.

Twilio JavaScript and Java

```
//Java
TwilioCapability capability =
                    new TwilioCapability(acctSid, authToken);
capability.allowClientIncoming(user.getScreenName());

//JavaScript
Twilio.Device.setup("<%= twilio_token %>");

Twilio.Device.connect(...)
Twilio.Device.disconnect(...)
```

Twilio Portlet

Telephony Portlet integration with Twilio

GitHub:https://github.com/boryaku/twilio-callcenter-portlet

Documentation: http://puresrc.com/web/guest/knowledge/-/knowledge_base/article/12050

What's next?

Client functionality integration with your application and the cloud.

Think Siri for the iPhone messaging Twilio to run a procedure on your system.

Questions? Comments.

- Are you using any infrastructure APIs?
- Are you building any infrastructure APIs?
- We can't use them...

Thank You!

Thanks PJUG - Nov. 15, 2011