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ChatOps for Distributed Teams, Fun, and Profit

Michael Sherron, Technical Architect

**Chris Urban, Delivery Manager
Acquia**

About Us

- Michael Sherron
- Drupalist, 6 years
- Technical Architect, Acquia
- ‘Raised’ in small Drupal Shops



About Us



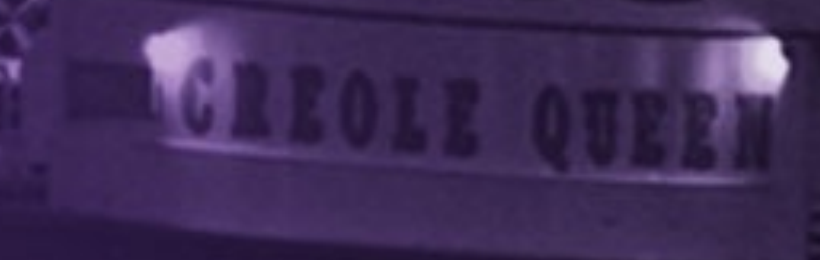
- Chris Urban
- Drupalist, 8 years
- Delivery Manager, US East, Acquia
- Certified ScrumMaster; marketing agency and digital strategist background



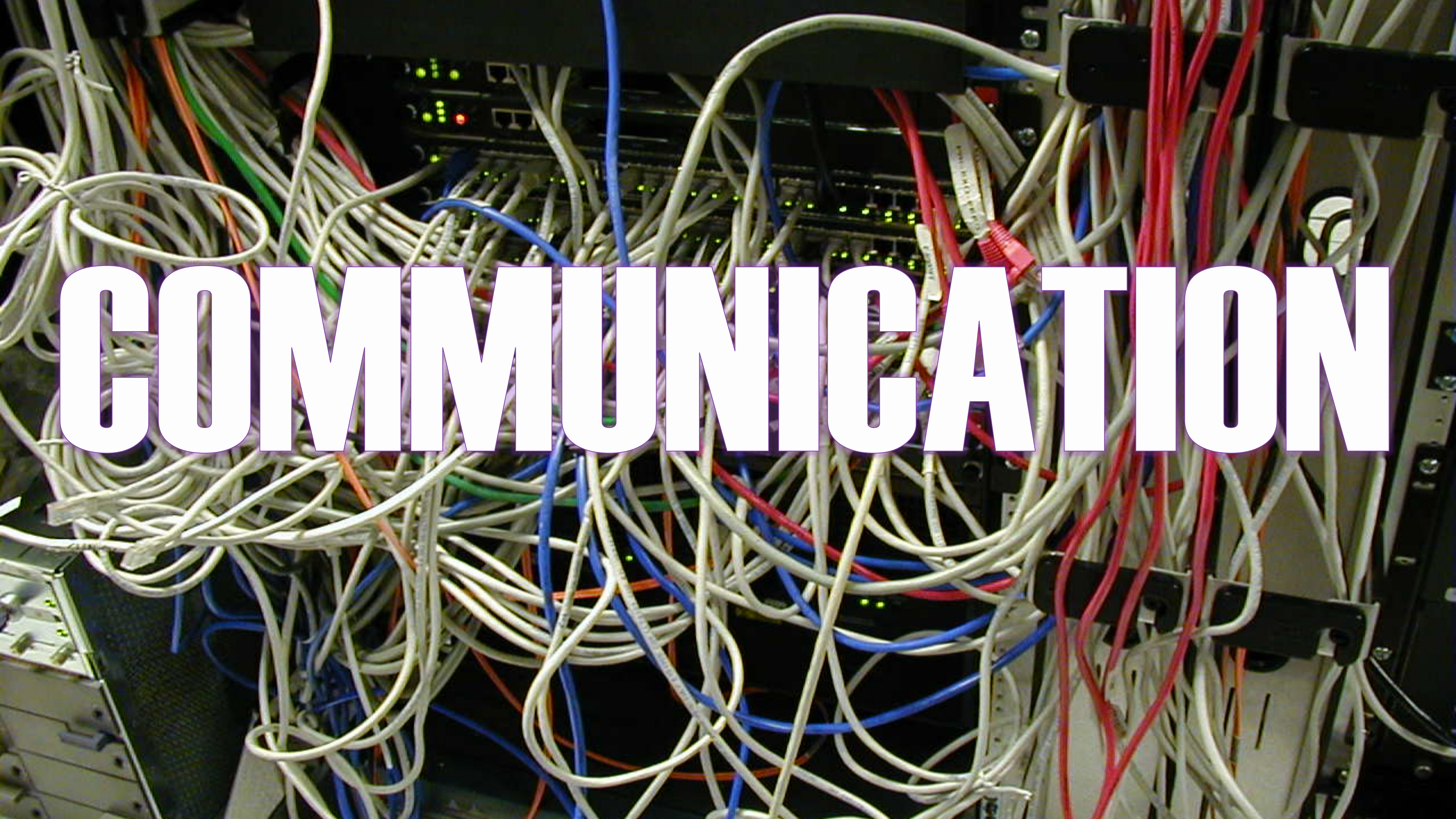


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Why ChatOps?



CREOLE QUEEN



COMMUNICATION

Communications Challenges

- Developers spread across time zones
- Desire for clear, concise communication
- Need central place for rapid public info distribution
- Create a virtual 'space' for meetings
- Document meeting notes for accountability and future reference



TEAM CULTURE



Camaraderie is Important

- Chat provides a place for culture with distributed teams
- Images, Memes, Emoji
- Karma Bots



junaidmasoodi 12:42 PM

@nagwani: ++



Regina Cassandra BOT 12:42 PM

@nagwani now has 8 Karma points and 0 cookies in his swearjar!



Build Automation: Jenkins Et Slack

- Jenkins for build automation
- Slack integration is super easy
- Just need to add one plugin in Jenkins and an integration in Slack.
- Jenkins can post to Slack when commits are pushed, builds are started, completed, etc.



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Chrome File Edit View History Bookmarks People Window Help 30m 91% Tue 3:01 pm Michael Sherron

jenkins.michaelsherron.com:8080/manage

Jenkins

Michael Sherron | log out

- New Item
- People
- Build History
- Manage Jenkins
- Credentials
- My Views

Build Queue

No builds in the queue.

Build Executor Status

master
1 Idle
2 Idle
msherron-droplet
1 Idle

Manage Jenkins

New version of Jenkins (2.2) is available for [download](#) ([changelog](#)).

Slave to master security subsystem is currently off. [Please read the documentation](#) and consider turning it on. Examine Dismiss

- Configure System**
Configure global settings and paths.
- Configure Global Security**
Secure Jenkins; define who is allowed to access/use the system.
- Reload Configuration from Disk**
Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.
- Manage Plugins**
Add, remove, disable or enable plugins that can extend the functionality of Jenkins. **(updates available)**
- System Information**
Displays various environmental information to assist trouble-shooting.
- System Log**
System log captures output from `java.util.logging` output related to Jenkins.
- Load Statistics**
Check your resource utilization and see if you need more computers for your builds.
- Jenkins CLI**
Access/manage Jenkins from your shell, or from your script.
- Script Console**
Executes arbitrary script for administration/trouble-shooting/diagnostics.
- Manage Nodes**
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Manage Credentials**
Create/delete/modify the credentials that can be used by Jenkins and by jobs running in Jenkins to connect to 3rd party services.
- About Jenkins**
See the version and license information.
- Manage Old Data**
Scrub configuration files to remove remnants from old plugins and earlier versions.
- Manage Users**
Create/delete/modify users that can log in to this Jenkins



Drupal to Slack

- Simple Contrib API module: 'Slack'.
- Needs 'Incoming Webhook' Integration enabled.
- Just add the webhook in Drupal.
- Use Case Ideas:
 - Editorial workflow – notify state change (workbench moderation).
 - Commerce Checkout.
 - Cron runs completed.
 - Feeds ingestion completed.

```
*/  
function slack_send_message($message, $channel =  
  $webhook_url = slack_get_default_webhook_url();  
  if (!$webhook_url) {  
    return FALSE;  
  }  
  $message_options = array();  
  if ($channel) {  
    $message_options['channel'] = $channel;  
  }  
}
```



michaelbot BOT 8:28 PM ☆

Hello world!



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The screenshot shows a web browser window displaying the Slack App Directory page for 'Incoming WebHooks'. The browser's address bar shows the URL <https://drupaltestland.slack.com/apps/manage/A0F7XDUAZ-incoming-webhooks>. The page header includes the Slack logo, 'App Directory', a search bar, and navigation links for 'Browse', 'Manage', and 'Build'. The main content area features a breadcrumb trail: 'Browse apps > Custom Integrations > Incoming WebHooks > Configurations on drupaltestland'. A large icon of a red and black webhook symbol is displayed on the left. To its right, the title 'Incoming WebHooks' is followed by a descriptive paragraph: 'Incoming Webhooks are a simple way to post messages from external sources into Slack. They make use of normal HTTP requests with a JSON payload, which includes the message and a few other optional details described later.' Below this, a link for 'Message Attachments' is provided. A 'Configurations' section contains an 'Add a new configuration...' button and a list of existing configurations, including one titled 'Posts to #general as incoming-webhook' by 'michaelserron' on 'Feb 15, 2016'. The footer is organized into four columns: 'USING SLACK' (Product, Pricing, Support, Slack Guides, Video Guides, App Directory, API), 'SLACK' (Jobs, Customers, Developers, Events, Blog, Podcast, Slack Shop), 'LEGAL' (Privacy, Security, Terms of Service, Policies), and 'HANDY LINKS' (Download desktop app, Download mobile app, Brand Guidelines, Slack at Work, Status). The browser's taskbar on the right shows various application icons, and the system tray at the bottom indicates the time as 'Tue 3:20 pm'.



Slack to Drupal



+



- Slack can be another Drupal interface: Slack Receive module
- Build Drupal powered Slackbots
- Access Drush or other Drupal functionality without logging into Drupal or using CLI
- Nice if you're mobile
- Other use case ideas:
 - Clearing caches
 - Check module status
 - Check/set variable status
- Be mindful of security



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The screenshot shows a Chrome browser window with the URL <https://www.drupal.org/sandbox/pnlnny2001/2677166>. The browser tabs include "Slack Receive | #2677", "Slack Receive | Drupal.org", "Configure Apps | drupalite", and "Slack Receive | Michael Sh". The browser's address bar shows the URL and several bookmarks. The page content features the Drupal logo and a search bar. A purple banner across the top of the page reads "Here for the community? May 9th-13th, we're in New Orleans. Don't miss out!" with a "Join us at DrupalCon" button. Below this, the "Download & Extend" section is active, showing the "Slack Receive" module page. The page title is "msherron's sandbox: Slack Receive". It includes a "View" button and a "Version control" link. The post is attributed to "msherron" on "February 27, 2016 at 7:54pm" and is labeled as an "Experimental Project". A summary states: "This module allows Drupal to receive and execute commands sent from Slack via their Outgoing Webhooks integration. Developers can use this module as a launching point for things like executing Drush commands and printing the output into a Slack channel, or for creating their own Drupal-powered SlackBots." A note at the bottom of the summary says: "Note: this module is an API module and doesn't do anything on its own. Please enable the included slack_receive_example module to see working examples of functionality that are possible via Slack Receive." The sidebar on the right contains "Maintainers for Slack Receive" (msherron - 9 commits) and "Issues for Slack Receive" (0 open, 0 total). The browser's taskbar on the right shows various application icons including Chrome, Firefox, and several instances of Slack.

Chrome File Edit View History Bookmarks People Window Help

Slack Receive | #2677 x Slack Receive | Drupal.org x Configure Apps | drupalite: x Slack Receive | Michael Sh: x

https://www.drupal.org/sandbox/pnlnny2001/2677166

Search ...

Log in / Register

Here for the community? May 9th-13th, we're in New Orleans. Don't miss out!

Join us at DrupalCon

Download & Extend

Download & Extend Home Drupal Core Distributions Modules Themes

Slack Receive

msherron's sandbox: Slack Receive

View Version control

Posted by msherron on February 27, 2016 at 7:54pm

Experimental Project

This is a [sandbox project](#), which contains experimental code for developer use only.

Summary

This module allows Drupal to receive and execute commands sent from Slack via their Outgoing Webhooks integration. Developers can use this module as a launching point for things like executing Drush commands and printing the output into a Slack channel, or for creating their own Drupal-powered SlackBots.

Slack will send POST data to a menu callback in Drupal which this module enables at `/slack_receive`. If the post contains the correct Slack Token, Slack Receive will then execute any functions that are implemented via `hook_slack_receive_api`. Developers should take a few minutes and become familiar with the [Slack API docs](#) [here](#).

Note: this module is an API module and doesn't do anything on its own. Please enable the included `slack_receive_example` module to see working examples of functionality that are possible via Slack Receive.

Requirements

Maintainers for Slack Receive

msherron - 9 commits
last: 2 months ago, first: 2 months ago
[View all committers](#)
[View commits](#)

Issues for Slack Receive

To avoid duplicates, please search before submitting a new issue.
[Advanced search](#)

All issues
0 open, 0 total

Bug report
0 open, 0 total
[Subscribe via e-mail](#)
Statistics

New issues 0

https://www.drupal.org/download





PARTICIPANTS

Daily Scrum Challenges

- Different teams in different time zones
- Identify blockers ASAP
- Identify missing updates ASAP
- Lengthy calls: 10 reporters, 20 min.+



Use a Slackbot for Scrum: Howdy

- Automated polling
- Identify blockers NOW
- Identify missing reports
- Cut time to 10 min max.
- Cut documentation time in half



howdy BOT 2:15 PM

I'm starting the **scrum**! [View my notes from this meeting on the web](#)



howdy BOT 6:33 PM

Here are my notes from the **scrum** started by urban on Dec 22nd at 2:15pm EST
What did you work on yesterday?

 urban

I prepared for Sprint End

What do you plan to work on today?

 urban

Reports.

Do you have any issues or blockers?

 urban

I have an issue with the way Steve Harvey handled the whole Miss Universe thi

 [View my notes from this meeting on the web](#)



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drupaltestland urban

CHANNELS (2)

- # general
- # random

DIRECT MESSAGES (3)

- slackbot
- howdy
- michaelsherron

+ Invite People

#general

3 members | Company-wide announcements and work-based matters

(views_slideshow_cycle) Yesterday

Views	Views UI (views_ui)	Module Enabled	7.x-3.13
-------	---------------------	----------------	----------

Today

urban 2:07 PM
Hey @here

michaelsherron 2:07 PM
woop woop

urban 2:08 PM ☆
Any updates on our project?

michaelsherron 2:08 PM
Nachos

urban 2:08 PM
We could sure use a standup

michaelsherron 2:08 PM
That's a great idea, @urban

urban 2:08 PM
@howdy: record scrum #general

howdy BOT 2:08 PM
🐸
I'm not working on any active in this channel right now.



Use a Slackbot for Scrum: Howdy

- Stock questions or custom questions
- Specify timing
- Multiple teams with 1 report or separate
- Designate channel to report in
- Asynchronous reporting

howdy.

[About](#)

[Help](#)

[Botkit](#)

[Logout](#)

[Dashboard](#)

[Notes](#)

[Scripts](#)

Edit Schedule

Your bot is configured to run the "scrum" script on the following schedule:

Choose day(s):

Mon
 Tue
 Wed
 Thu
 Fri
 Sat
 Sun

Set time:

:

Participants:

Deliver report to:



Caveats: Howdy

- Enterprise Slack needs Full users to view reports
- Eight hour window for reporting
- Stopping and starting answering questions could bork with timeout

howdy.

Notes from **SCRUM** on **JAN 15TH AT 12:30PM EST** in channel #██████████-STANDUP

Started by: urban

What did you work on yesterday?



A P

trying to find a workaround for ██████████ issue on 3920 which turns out kinda complicated, and checking the issue on 3504, which might need to test in other different machine, awaiting feedback from ██████████



B ██████████
3876



d ██████████

Merged changes about minor issues from 2953, also fixed some minor issues for 3997



I ██████████

4008 - on QA

██████████ - on QA



References

- Jenkins Slack Plugin: <http://bit.ly/1KIN3p9>
- Karma Chatbot: <http://bit.ly/1QCh8Jp>
- DrupalVM: <http://drupalvm.com>
- Slack Module: <http://bit.ly/1TEAhKI>
- Slack Receive Module: <http://bit.ly/24uwIAa>
- Howdy: <http://howdy.ai>





- Michael Sherron
- @michaelserron
- michael.sherron@acquia.com

Thanks!



- Chris Urban
- @_urban_
- chris.urban@acquia.com

Evaluate this session
– <http://bit.ly/1WjmNGo>

