



user group

Dubai Meetup - 05 September 2018

<https://github.com/serverless-dubai>

Thank you,
Canadian
University
Dubai!!!



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Agenda

- ✦ Universal Vue Apps with Nuxt and Serverless
- ✦ Universal Angular Apps with Next and Serverless
- ✦ Deploying Front-end Applications with Serverless
- ✦ Questions and Discussion
- ✦ Pizza!

Universal Vue Apps with Nuxt and Serverless

Rob Sutter

Technical Lead, Prototype Interactive

<https://github.com/serverless-dubai>

I STOLE THIS TALK!

- ✦ See Adnan Rahić's blog "[A crash course on serverless-side rendering with Vue.js, Nuxt.js and AWS Lambda](#)" on Hackernoon
- ✦ We'll start here (minus the custom domain plugin)

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Let's Generalize

- ✦ What if we have an existing Vue.js/Nuxt application that we want to migrate to Serverless?
- ✦ Let's use an example with internationalization from Paul Gascou-Vaillancourt

Which approach to take?

1. Bring the Serverless code into our Vue.js/Nuxt app
2. Bring our Vue.js/Nuxt code into the Serverless app

Serverless -> Nuxt



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So... Nuxt -> Serverless

Just (ha!) three easy (ha!) steps:

- Fix your dependencies
- Bring our Vue.js/Nuxt code into the Serverless app
- Update nuxt.config.js

Redeploy!

- ✦ Use CloudWatch, Dashbird, or IOpipe to debug

	Time (UTC +00:00)	Message
	2018-09-01	
		No older events found at the moment. Retry .
▶	12:49:45	START RequestId: 7f615017-ade5-11e8-9fcb-79286118c790 Version: \$LATEST
▼	12:49:45	2018-09-01T12:49:45.515Z 7f615017-ade5-11e8-9fcb-79286118c790 [Vue warn]: Property or method "localePath" is not defined c
		<pre>2018-09-01T12:49:45.515Z 7f615017-ade5-11e8-9fcb-79286118c790 [Vue warn]: Property or method "localePath" is not defined on the instance but referenced during render. Make sure that this property is reactive, either in the data option, or for class-based components, by initializing the property. See: https://vuejs.org/v2/guide/reactivity.html#Declaring-Reactive-Properties.</pre>
		<pre>found in ---> <Default> at client/layouts/default.vue <Root></pre>

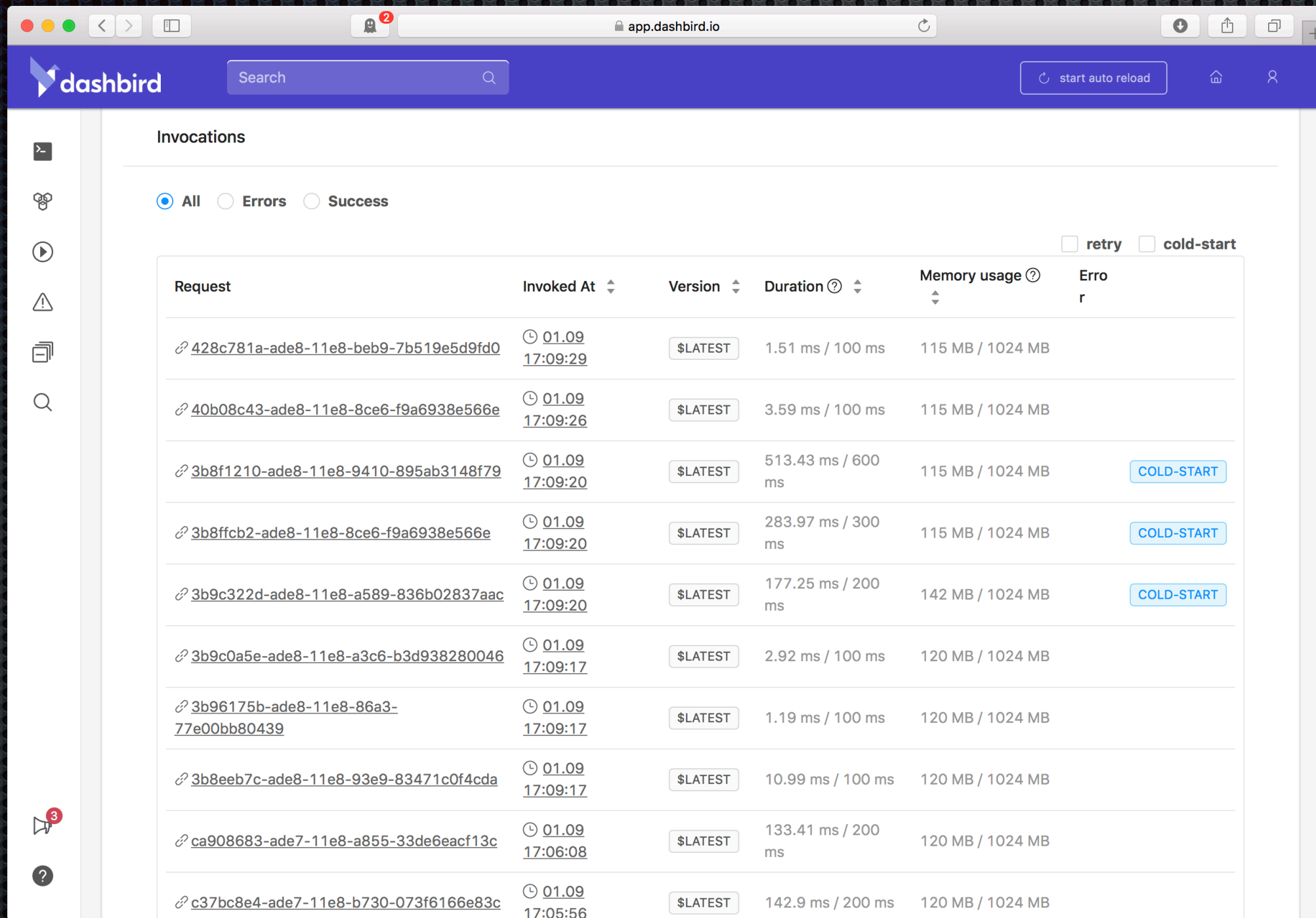
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Why *not* do this?

- ✦ All these dependencies are an anti-pattern, because you get...
- ✦ 47MB packages, and...
- ✦ Cold starts up to 500ms
- ✦ Violates the “one function (lambda), one function (purpose)” rule

```
Aurelius:serverless-nuxt rob$ sls deploy
Serverless: Packaging service...
Serverless: Excluding development dependencies...
Serverless: Creating Stack...
Serverless: Checking Stack create progress...
.....
Serverless: Stack create finished...
Serverless: Uploading CloudFormation file to S3...
Serverless: Uploading artifacts...
Serverless: Uploading service .zip file to S3 (47.81 MB)...
```


Render Performance



The screenshot displays the Dashbird interface for monitoring serverless functions. The 'Invocations' tab is active, showing a list of function calls. The table includes columns for Request ID, Invoked At, Version, Duration, Memory usage, and Error status. The 'Duration' column shows values like '1.51 ms / 100 ms' and '513.43 ms / 600 ms'. The 'Memory usage' column shows values like '115 MB / 1024 MB' and '142 MB / 1024 MB'. The 'Error' column shows 'COLD-START' for several invocations. The interface also includes a search bar, a 'start auto reload' button, and a sidebar with navigation icons.

Request	Invoked At	Version	Duration	Memory usage	Error
428c781a-ade8-11e8-beb9-7b519e5d9fd0	01.09 17:09:29	\$LATEST	1.51 ms / 100 ms	115 MB / 1024 MB	
40b08c43-ade8-11e8-8ce6-f9a6938e566e	01.09 17:09:26	\$LATEST	3.59 ms / 100 ms	115 MB / 1024 MB	
3b8f1210-ade8-11e8-9410-895ab3148f79	01.09 17:09:20	\$LATEST	513.43 ms / 600 ms	115 MB / 1024 MB	COLD-START
3b8ffcb2-ade8-11e8-8ce6-f9a6938e566e	01.09 17:09:20	\$LATEST	283.97 ms / 300 ms	115 MB / 1024 MB	COLD-START
3b9c322d-ade8-11e8-a589-836b02837aac	01.09 17:09:20	\$LATEST	177.25 ms / 200 ms	142 MB / 1024 MB	COLD-START
3b9c0a5e-ade8-11e8-a3c6-b3d938280046	01.09 17:09:17	\$LATEST	2.92 ms / 100 ms	120 MB / 1024 MB	
3b96175b-ade8-11e8-86a3-77e00bb80439	01.09 17:09:17	\$LATEST	1.19 ms / 100 ms	120 MB / 1024 MB	
3b8eeb7c-ade8-11e8-93e9-83471c0f4cda	01.09 17:09:17	\$LATEST	10.99 ms / 100 ms	120 MB / 1024 MB	
ca908683-ade7-11e8-a855-33de6eacf13c	01.09 17:06:08	\$LATEST	133.41 ms / 200 ms	120 MB / 1024 MB	
c37bc8e4-ade7-11e8-b730-073f6166e83c	01.09 17:05:56	\$LATEST	142.9 ms / 200 ms	120 MB / 1024 MB	

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So what's next?

- ✦ Both Vue.js and the Serverless Framework are plugin based
- ✦ Somebody please write a vue-nuxt-serverless plugin!
- ✦ I'll contribute:
 - ✦ rts-rob on GitHub

References and Resources

- ✦ <https://hackernoon.com/a-crash-course-on-serverless-side-rendering-with-vue-js-nuxt-js-and-aws-lambda-fbfaad80aa25>
- ✦ <https://github.com/adnanrahic/serverless-side-rendering-vue-nuxt>
- ✦ <https://github.com/paulgv/nuxt-i18n-example>
- ✦ <https://github.com/maciejtreder/serverless-apigw-binary>

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Universal Angular Apps with Next and Serverless

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Deploying Front-end Applications with Serverless

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Next Meetup - 17 October 2018

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