**Topic:**

Supersize Node.js – Deployment of a large stack of Node.js services

**Contact Information:**

**Name: David Richer and Guillaume Brossard**

**Location: Montreal**

**Division & Team:** **M&E – Cloud Services – Core Team**

**E-mail:**  **david.richer@autodesk.com; guillaume.brossard@autodesk.com**

**Speaker/Exhibitor Biography:**

|  |
| --- |
| Guillaume Brossard previously worked at GRIP Entertainment, where he designed and built an artificial intelligence behavior tree system for the video game industry, and at Bluestreak Technology, developing on a real-time Adobe Flash compatible rendering engine for embedded devices.  David Richer also previously worked at GRIP Entertainment where he designed and built a real-time character system for video game digital extras. He has over 10 years’ experience in C++.  Both speakers are experienced C++ programmers that became JavaScript enthusiasts. They are working together in the M&E Cloud Service Core Team, building Web Services and Tools that are the building blocks of M&E Cloud Service Web Application. They now have 2 years of experience working with Node.js. |

**Proposal Abstract:**

What is the focus of your presentation/Exhibit? Please provide a description.

As part of the Autodesk business transformation to the cloud, the Web Services group within the M&E division has the mandate to smooth the transition to the cloud for various product groups. Some key goals for the deployment:   
- Reproducible.  
- No human intervention.  
- Facilitating fast deployment iteration.  
  
This presentation is for developers by developers, and will demystify, using real-world examples, how to deploy a complete stack on Amazon built of 17 micro-services. We will present a modular approach to create a self-healing big stack of resources from small building blocks.

**Intended Audience & Prerequisites:**

Who are the intended audience and what are the prerequisites for the audience?

|  |
| --- |
| • Web developers that need to deploy complex application stack on Amazon • Node.js developers |

**Presentation outline:**

How do you want to organize your presentation? Please provide an outline.

General track: Start small, grow big

|  |
| --- |
| * M&E Cloud Services Context * Deployment goals * Architecture   + Scalable Nodes   + Dynamic Layouting of Roles   + Deployment as code * Amazon stack architecture   + Cloud Formation   + VPC stack   + Databases stack   + Services stack * Deploy an auto scaling group   + Elastic Load Balancer (https to http)   + Auto Scaling Group * Deploy an instance   + Chef Recipes   + Chef Roles   + Vagrant   + Private npm registry * Instance configuration   + Route53   + Configuration file * Stack Monitoring   + Upstart   + Sysadmin Portal   + Logs   + Tracing |

**Additional materials:**

If you have any screenshots, diagrams which illustrate this topic better, you can paste them here. You can also provide links to other materials.



