Walk-in Slide: AU 2014 Social Media Feed

1. Click on the link below, this will open your web browser

http://aucache.autodesk.com/social/visualization.html

2. Use "Extended Display" to project the website on screen if you plan to work on your computer. Use "Duplicate" to display same image on screen and computer.





Class summary

Not everyone can afford either the cost or infrastructure of a permanently installed server farm used for completing projects. This course will teach users the most effective methodologies for quickly creating a server farm (based on the Backburner application) using Amazon.com, Inc.'s, Elastic Compute Cloud (EC2) servers, which are paid on an on-demand basis. We will cover basic use of Amazon's system, and we will focus on how to configure specific parameters within the Backburner app so that rendering can run successfully on a virtualized on-demand network.



Key learning objectives

At the end of this class, you will be able to:

- Know the basic operation of the Amazon EC2 control panel
- Know the differences between deploying the Backburner application locally and remotely
- Know how to troubleshoot issues between computers on the Amazon EC2 farm
- Know how to activate an entire farm on Amazon EC2 on demand



The EC2 Control Panel

- Instances
- AMIs
- IP Addressing



The EC2 Control Panel

- Instances

What is an Instance?

- Sizes
- States
- Naming

Requesting an Instance

- Spot vs Instances
- Connecting to instance using RDC



The EC2 Control Panel - AMIs

What are AMIs?

- How to create one from a running Instance
- How to launch one from a stored AMI
- How are AMIs different than Volumes and Snapshots?



The EC2 Control Panel - Addressing

Elastic IPs

- How do they work? Why are there a limited number of them?
- Assigning them to the Manager
- Calling computer names vs Static IP



Deploying Backburner on Instances

- Setting up Backburner Manager
- Setting up Backburner Server
- Negotiating NICs



Deploying Backburner on Instances - Setting Up Manager

- Provisioning Machine with Storage
- Installing Backburner
- Using Startup to initialize Manager
- Configuring user Read Write of Storage



Deploying Backburner on Instances - Setting Up Server

- Installing backburner
- Configuring Startup
- Changing Config.XML to allow for naming to change
- Setting static Manager machine
- Connecting to storage space





Troubleshooting Issues

- All computers named same thing
- Storage not seeing each other
- Downloading final results



Activating a Farm

- Launching and securing Manager
- Launching Server Instances (using Spot or Normal)



Questions?



Session Feedback

Via the Survey Stations, email or mobile device

AU 2015 passes given out each day!

Best to do it right after the session

Instructors see results in real-time











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