

The background of the slide features a photograph of a traditional Japanese garden. In the foreground, there is a pond with several large, light-colored rocks. To the left, a grassy area with small shrubs borders the pond. In the middle ground, more rocks are scattered across the water. The background is dominated by a steep hillside covered in dense green trees and foliage. A yellow construction crane is visible on the left side of the hill.

Deployment of Virtual Clusters on a Commercial Cloud Platform for Molecular Docking

Subtopic: Multi-Cloud

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Week 2 Progress

- FutureGrid
 - The FutureGrid project proposal was submitted and accepted. With this acceptance we now have access to all FutureGrid Resources. Nimbus, a toolkit type infrastructure utilized in cloud computing, has been installed on one of FutureGrid's computing resources called “hotel”. An image of a virtual machine has also been transferred onto FutureGrid to be launched.
- Virtual Machines (VMs)
 - A VM based on the image of the VM created by Kevin Lam and Karen Rodriguez last year was made within our virtual machine (A VM in a VM). We are now adding new software, ViNe and Hadoop, to this VM. ViNe and Hadoop are necessary for new tests we will be conducting.

Week 2 Progress

- Multi-Cloud
 - I have continued to research ViNe software and emailed Dr. Mauricio Tsugawa, developer of ViNe and FutureGrid. Dr. Mauricio Tsugawa has sent me resources which I have read to improve my knowledge of ViNe.
 - I have gained access to AIST private cloud but have not done virtual machine work on it thus far.

Week 3 Plans

- Virtual Machines (VMs)
 - The goal is to have an initial VM with all necessary programs and software installed
- FutureGrid
 - Through next week I will be working on FutureGrid trying to get a better understand of how their cloud system works as well as learning Nimbus which I have installed on FutureGrid.

Week 3 Plans

- AIST Private Cloud
 - I am hoping to upload and launch a virtual machine image onto the AIST Private Cloud
- Multi-cloud
 - If we are able to successfully put VMs on FutureGrid and AIST private cloud, I will begin working with ViNe attempting to network between the two new cloud resources and the NAIST local server.
 - I also hope to plan a Skype conference call with Dr. Mauricio Tsugawa sometime over the next few weeks to gain a better understanding of ViNe.

Cultural Exploration



Cultural Exploration



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