

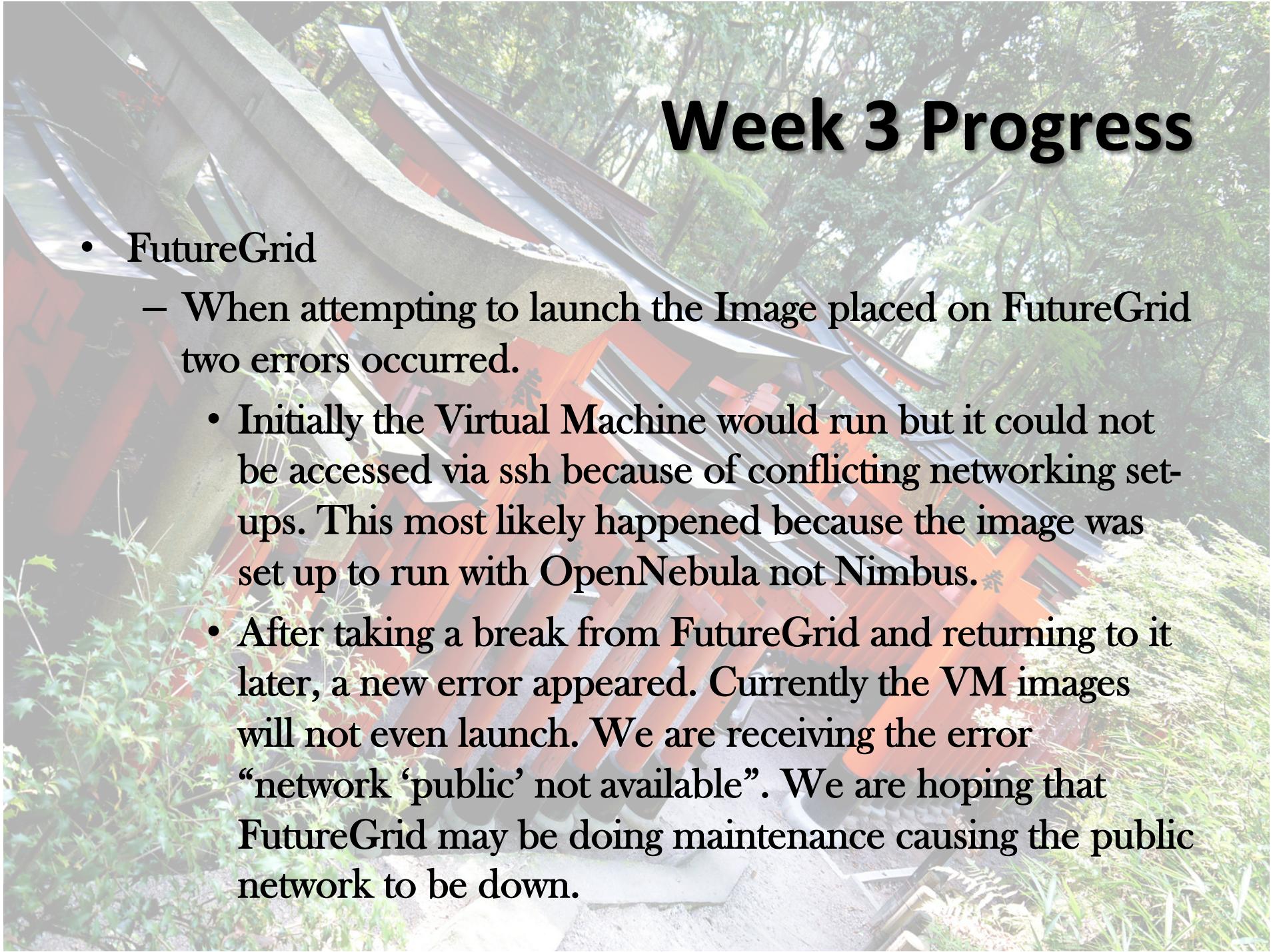
Deployment of Virtual Clusters on a Commercial Cloud Platform for Molecular Docking

Subtopic: Multi-Cloud

**Nara Institute of Science and
Technology (NAIST)**

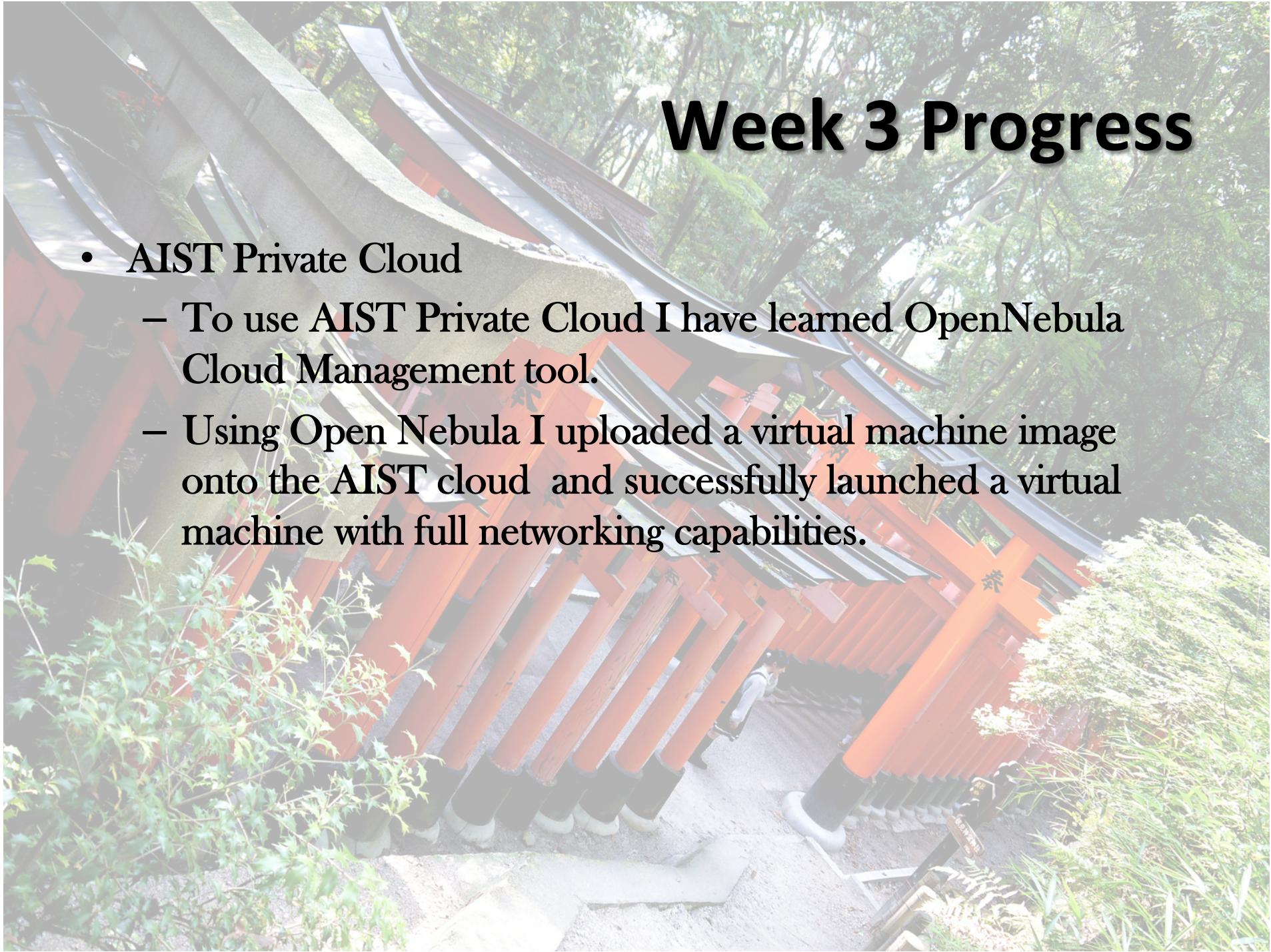
Nara, Japan

**Anthony Nguyen
07/16/2014**



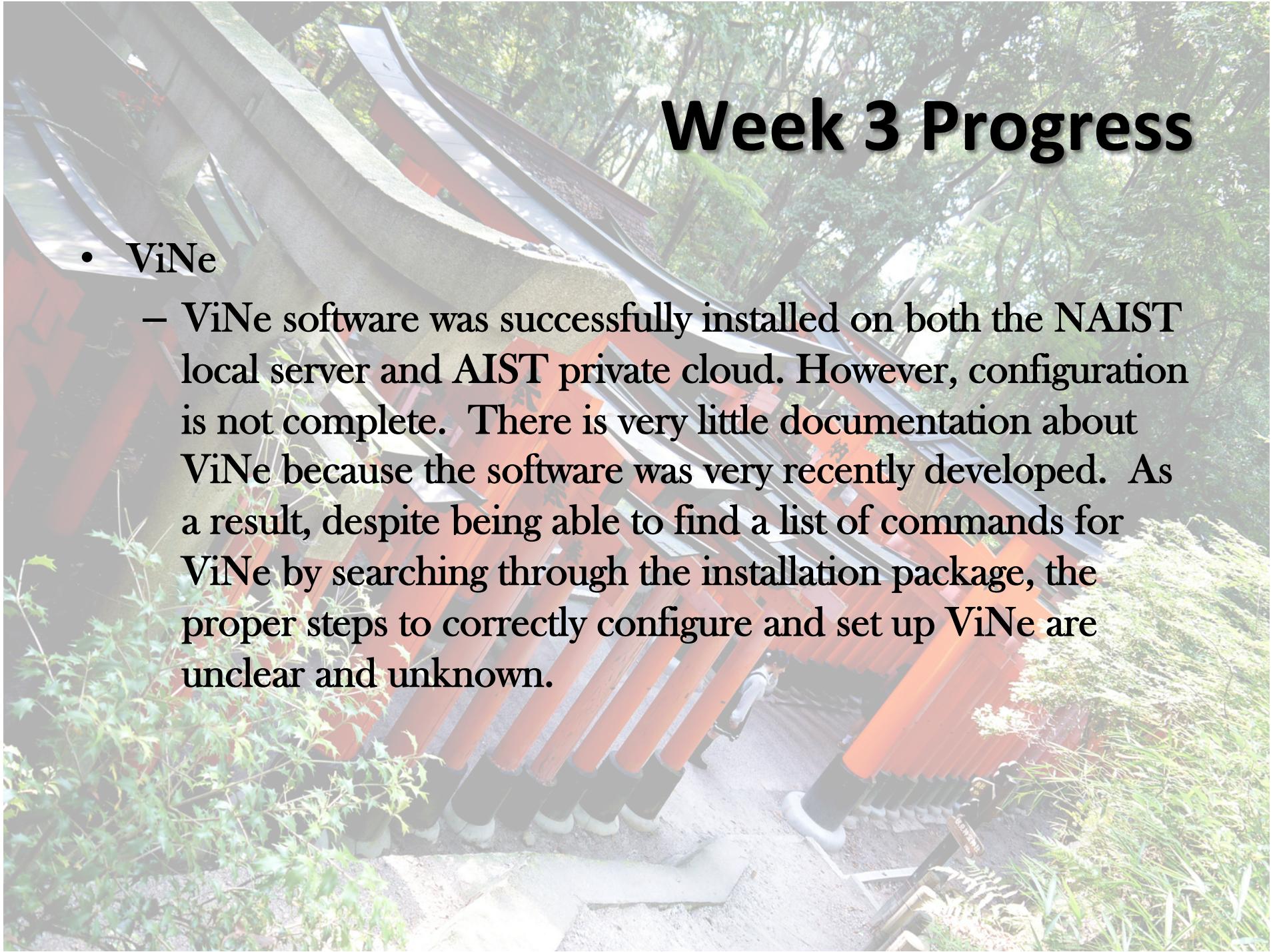
Week 3 Progress

- FutureGrid
 - When attempting to launch the Image placed on FutureGrid two errors occurred.
 - Initially the Virtual Machine would run but it could not be accessed via ssh because of conflicting networking set-ups. This most likely happened because the image was set up to run with OpenNebula not Nimbus.
 - After taking a break from FutureGrid and returning to it later, a new error appeared. Currently the VM images will not even launch. We are receiving the error “network ‘public’ not available”. We are hoping that FutureGrid may be doing maintenance causing the public network to be down.



Week 3 Progress

- AIST Private Cloud
 - To use AIST Private Cloud I have learned OpenNebula Cloud Management tool.
 - Using Open Nebula I uploaded a virtual machine image onto the AIST cloud and successfully launched a virtual machine with full networking capabilities.

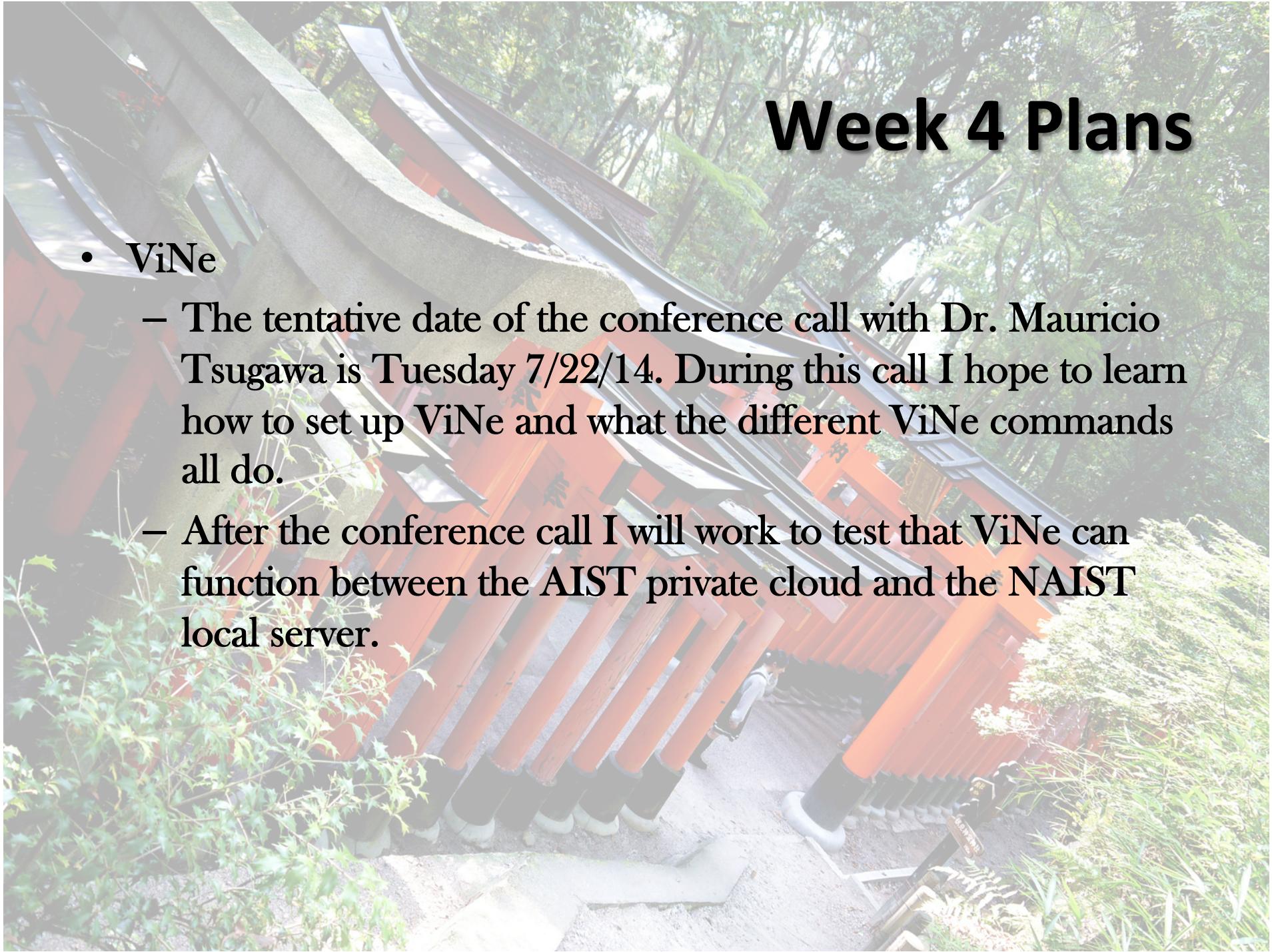


Week 3 Progress

- ViNe
 - ViNe software was successfully installed on both the NAIST local server and AIST private cloud. However, configuration is not complete. There is very little documentation about ViNe because the software was very recently developed. As a result, despite being able to find a list of commands for ViNe by searching through the installation package, the proper steps to correctly configure and set up ViNe are unclear and unknown.

Week 4 Plans

- FutureGrid
 - By the conclusion of next week, the goal for FutureGrid is to have a VM up and running on “hotel”, one of FutureGrid’s computing resources.
 - If time allows, would also like a VM on Sierra and Foxtrot computing resources as well.

A photograph of a traditional Japanese garden. In the foreground, several red torii gates are visible, some partially obscured by green bushes and trees. The gates have black metal supports and white bases. The background is filled with dense green foliage and trees, creating a serene atmosphere.

Week 4 Plans

- ViNe
 - The tentative date of the conference call with Dr. Mauricio Tsugawa is Tuesday 7/22/14. During this call I hope to learn how to set up ViNe and what the different ViNe commands all do.
 - After the conference call I will work to test that ViNe can function between the AIST private cloud and the NAIST local server.

Cultural Exploration



Cultural Exploration





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