ABSTRACT

Previous versions of cloudmesh were difficult to install on Microsoft windows. We delivered a cloudmesh shell and command line tool that is easy to install on Windows, Mac, and Linux. We focused on the integration with Openstack and tested our prototype through a number of unit tests. This work is the first step to a much easier deployable cloudmesh client. Special focus has been placed on providing a simple registration for ssh keys while leveraging Cygwin. The installation can be easily conducted in only a few steps.

Keywords
Cloud computing; cloudmesh.

1. INTRODUCTION

Cloudmesh is an open source project to easily manage virtual machines in a multicloud environment. With Cloudmesh, it is possible to use Azure, Amazon Web Services, OpenStack, and other clouds.

It is well known that Windows operating system is largely used in corporations and academic settings. The previous Cloudmesh command line client works under Linux and Mac machines. However, it did not support the Windows environment.

Figure 1. Desktop Operating system market share [1]
Figure 2 shows a screenshot of the Cloudmesh Shell upon startup. Figure 3 shows virtual machines started with Cloudmesh through OpenStack Horizon.

4. CONCLUSION

With the new version of Cloudmesh, research organizations and industries that use Windows Machines will be able to utilize Cloudmesh without changing their software infrastructure.

5. FUTURE WORK

Because Cloudmesh is a large project, only a small parts of its previous features have been implemented. We focused on virtual machine management on OpenStack. We suggest the addition of features from the previous version of Cloudmesh, such as:

a) Image management.
b) Virtual cluster management.
c) Access through a Web framework to satisfy Graphical User Interface requirements.
d) Managing security groups.
e) Displaying the status of the database and clouds.
f) Better error analysis.

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7. REFERENCES

