Nephelae
Cloud Infrastructure

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Cloud Computing in Simple Terms

A pool of highly scalable, abstracted infrastructure, capable of hosting end-customer applications, that is billed by consumption.
Nephelae’s Configuration

- Nephelae runs Ubuntu Enterprise Cloud
- Ubuntu Server 11.10
- Open source eucalyptus 2.0.2
  - KVM
# Nephelae Architecture

<table>
<thead>
<tr>
<th>Node Controller</th>
<th>CPU Model</th>
<th>CPUs</th>
<th>Cores/CPU</th>
<th>RAM (GB)</th>
<th>Storage Capacity (TB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloud Controller - Walrus</td>
<td><a href="mailto:E5620@2.40Ghz">E5620@2.40Ghz</a></td>
<td>2</td>
<td>8</td>
<td>74</td>
<td>1.6</td>
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<tr>
<td>Cluster and Storage Controller</td>
<td><a href="mailto:E5620@2.40Ghz">E5620@2.40Ghz</a></td>
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<td>8</td>
<td>74</td>
<td>1.6</td>
</tr>
<tr>
<td>Node Controller 1</td>
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<td>2</td>
<td>8</td>
<td>60</td>
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<tr>
<td>Node Controller 2</td>
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<td>2</td>
<td>12</td>
<td>74</td>
<td>1.6</td>
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<tr>
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<td>12</td>
<td>74</td>
<td>1.6</td>
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<tr>
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<td>1.6</td>
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<tr>
<td>Node Controller 5</td>
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<td>2</td>
<td>12</td>
<td>24</td>
<td>460GB</td>
</tr>
</tbody>
</table>
Nephelae Applications

Nephelae Cloud

Information Network Analysis

Data Mining

Vehicular Network Simulation
Nephelae
Cloud Infrastructure

QUESTIONS?
Nephelae
Cloud Infrastructure

Thank you!

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