

# Cloud Computing for Criminals

3/16/2010

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Or.....

**My Cloud is Bigger  
than  
Your Cloud!**

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# Powerhouse Cloud Providers:

- Rackspace:
  - Number of Systems: 75,000
  - Number of CPUs: 150,000
  - Bandwidth: 400 Gbps

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# Powerhouse Cloud Providers:

- Amazon:
  - Number of Systems: 160,000
  - Number of CPUs: 320,000
  - Bandwidth: 500 Gbps

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# Powerhouse Cloud Providers:

- Google:\*
  - Number of Systems: 500,000
  - Number of CPUs: 1,000,000
  - Bandwidth: 1,500 Gbps

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Is that it ...



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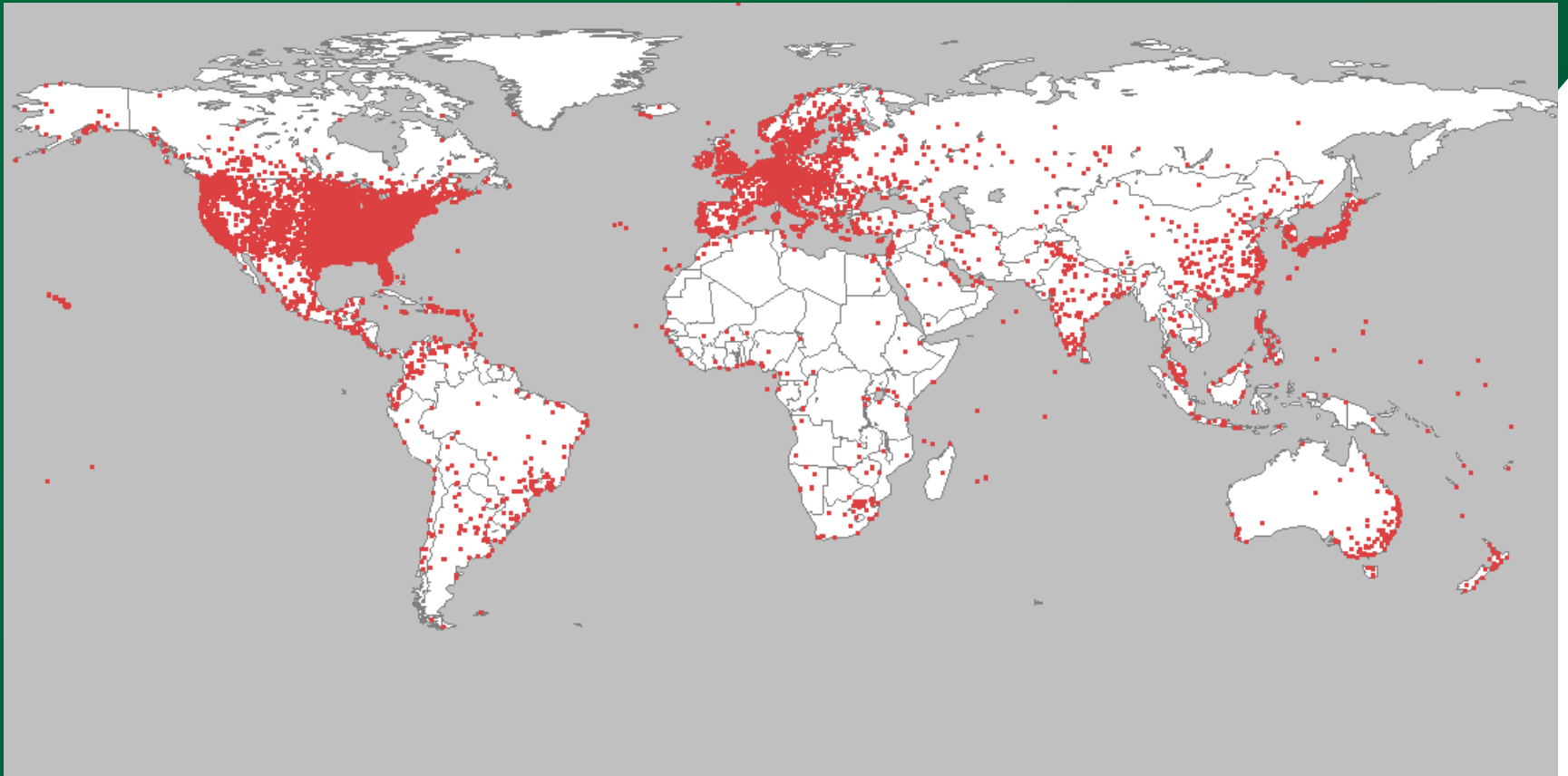
# Alternative Vendors of Cloud Services:

## Vendor C:

- **Number of Systems: 6,400,000**
- **Number of CPUs: 18,000,000+**
- **Bandwidth: 28 Terabits**
- **Facilities: 230 Countries**

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## 230 Countries:




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# Conficker



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**Mariposa**  
**Torpig**  
**Clampi**  
**Black Energy**  
**Zeus**  
**Bobax**  
**Kraken**  
**Bugat**  
**Machbot**  
**Coreflood**  
**Cutwail**

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# Are these really like other cloud vendors?

Yes!

- They're available for rent
- Choose your geographies
- Choose your networks
- Choose your bandwidth
- Choose your OS Version
- Choose your specialty (DDoS, Spam, Data Exfiltration)

Vendor Qualifications:

- Much more experience (1998)
- Larger footprint (Millions of systems)
- Unlimited new resources (New malware)
- No costs
- No moral, ethical, or legal constraints

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## So what should you do?

- Learn from the pros – study botnets
- Protect your own infrastructure and applications
- Assume you will become a target  
They're great learners
- Monitor your systems for parasites
- Make sure your cloud vendors know your general behavior – don't look like a black cloud

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# CLOUD CONNECT

