图形化大规模网络设备

钟子飞 上海互一网络科技有限公司 创始人、研发总监 zfz@huyi.so www.huyi.so weibo.com/zhongzifei

Hackers & Python





The programmers you'll be able to hire to work on a Java project won't be as smart as the ones you could get to work on a project written in Python. And the quality of your hackers probably matters more than the language you choose. Though, frankly, the fact that good hackers prefer Python to Java should tell you something about the relative merits of those languages

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钟子飞:偶然发现了网易邮件系统的一个bug,于是好玩写了几行python去exploit了一下;以为他们发现不了,不过今天貌似修复了。让我欣慰了一下,他们还不算太差劲

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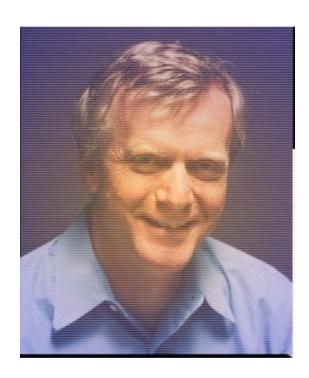


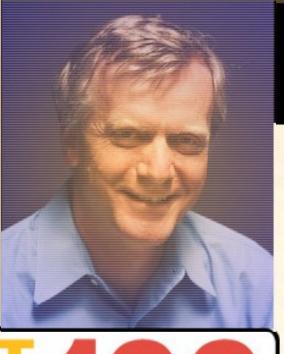
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Python at switch level



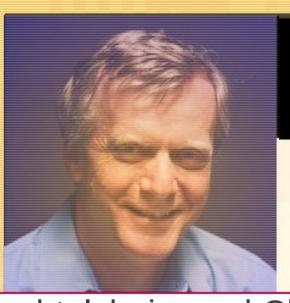


#52 Andy Bechtolsheim Sun Microsystems

Co-founder of Sun, who did most of the work toward the invention of the workstation and Gigabit Ethernet.

5100

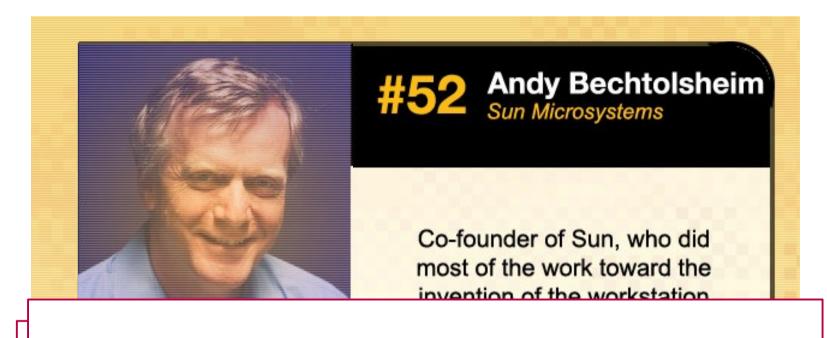
MOST INFLUENTIAL PEOPLE IN IT



#52 Andy Bechtolsheim Sun Microsystems

Co-founder of Sun, who did most of the work toward the invention of the workstation

Bechtolsheim and Cheriton were two of the first investors in Google, investing \$100,000 each in September 1998. Bechtolsheim wrote the check to "Google Inc" prior to the company even being founded...When he gave the check to Lawrence E. Page and Sergey Brin, Google's founders, they had not actually yet been legally incorporated.



The most profitable for Bechtolsheim was his initial \$100,000 investment in Google, which, in March 2010, was worth approximately \$1.7 billion.

Page and Sergey Brin, Google's founders, they had not actually yet been legally incorporated.





google datacenter

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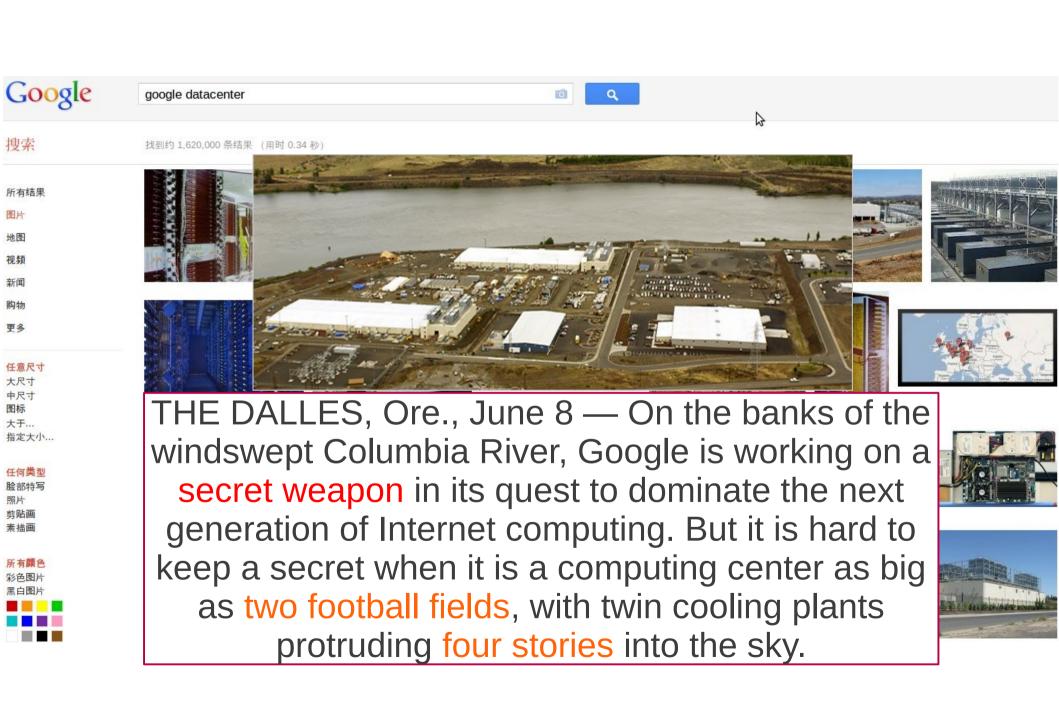


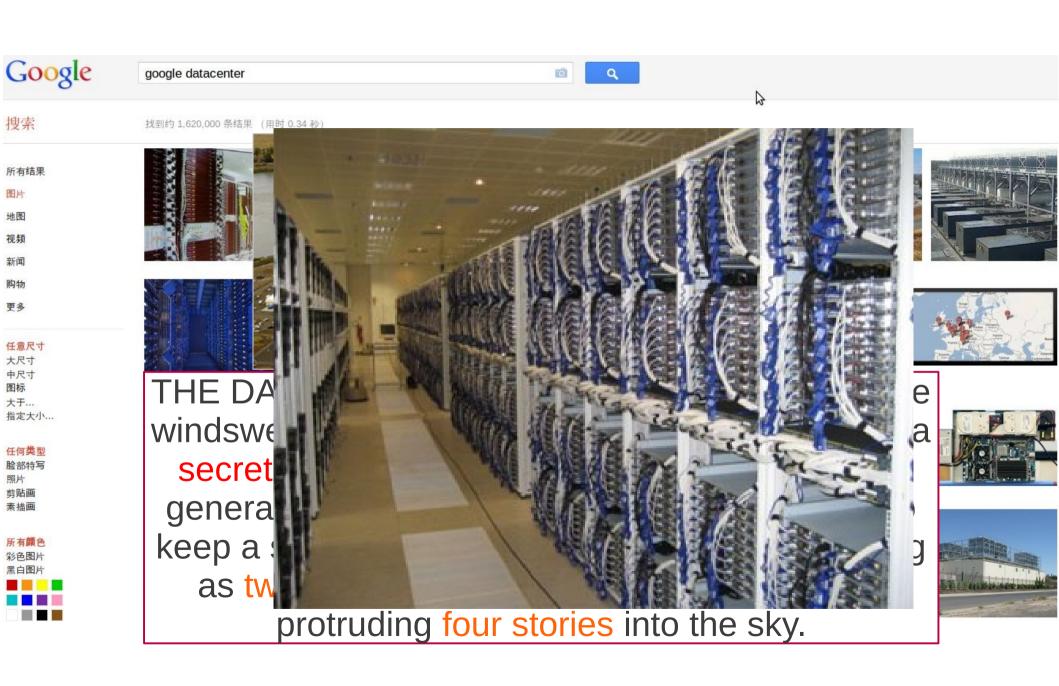


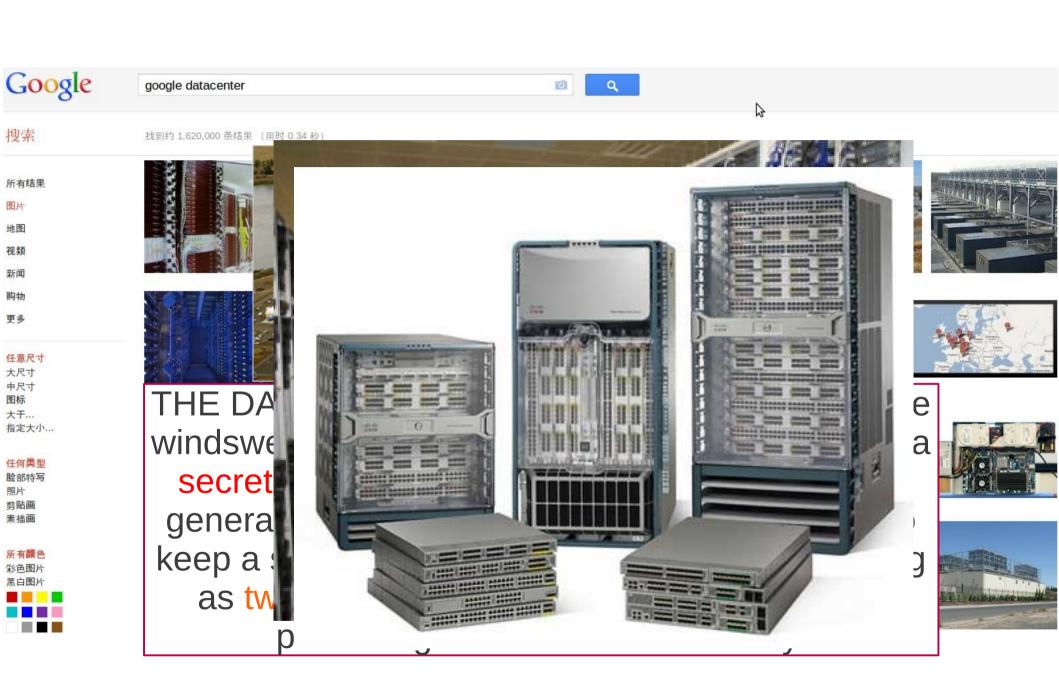








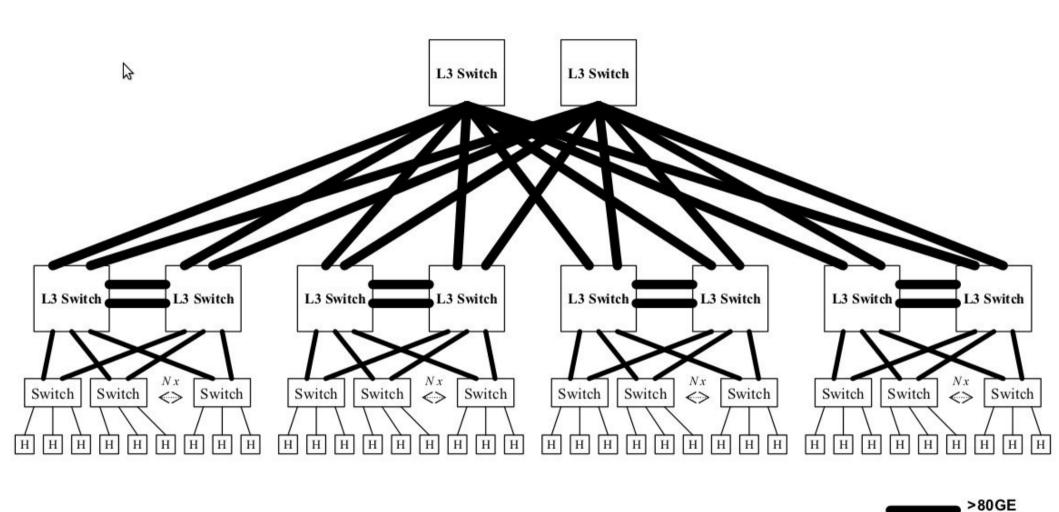




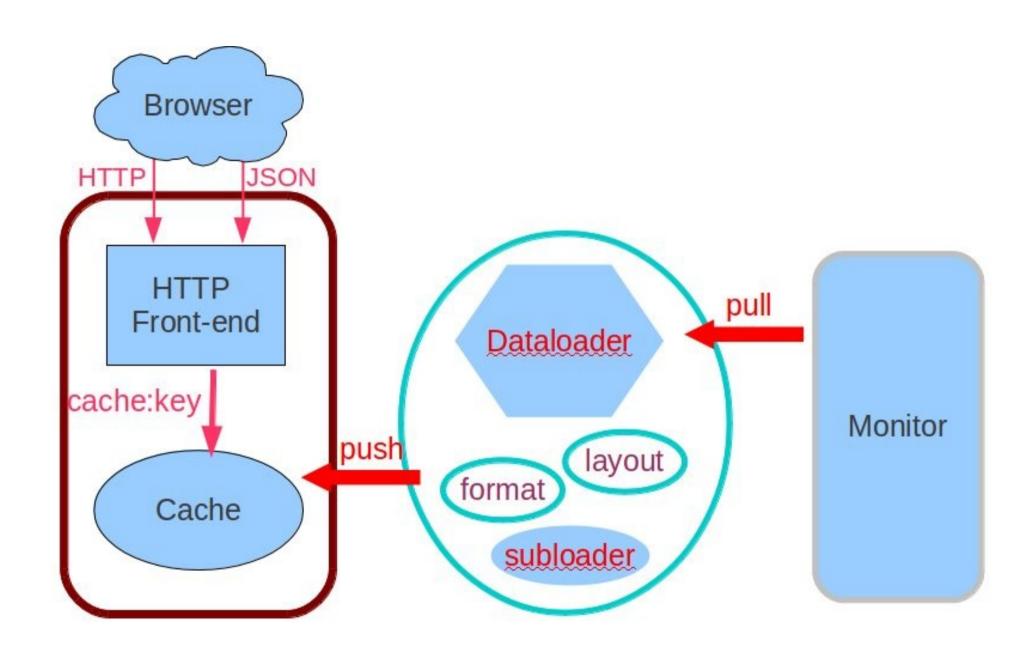
Build Routing Protocols

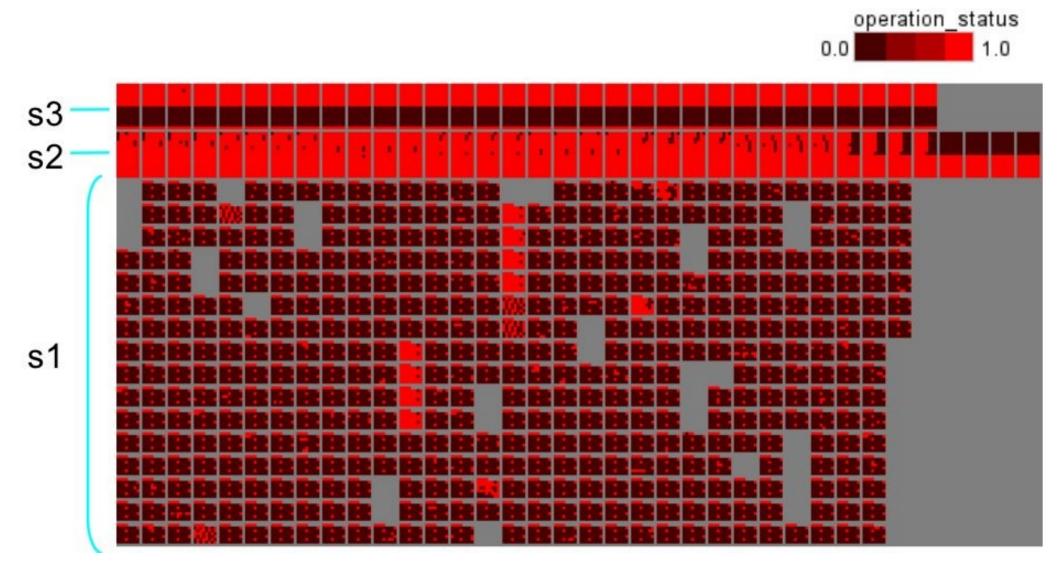
- 代码构成
 - C/Python/asm
- Python 的作用
 - 用 Python 连接模: ARP/SNMP/HAL/IPC...
 - 用 Python 定义并管理 Metadata
 - Protocol Buffer
 - Python Unit Test

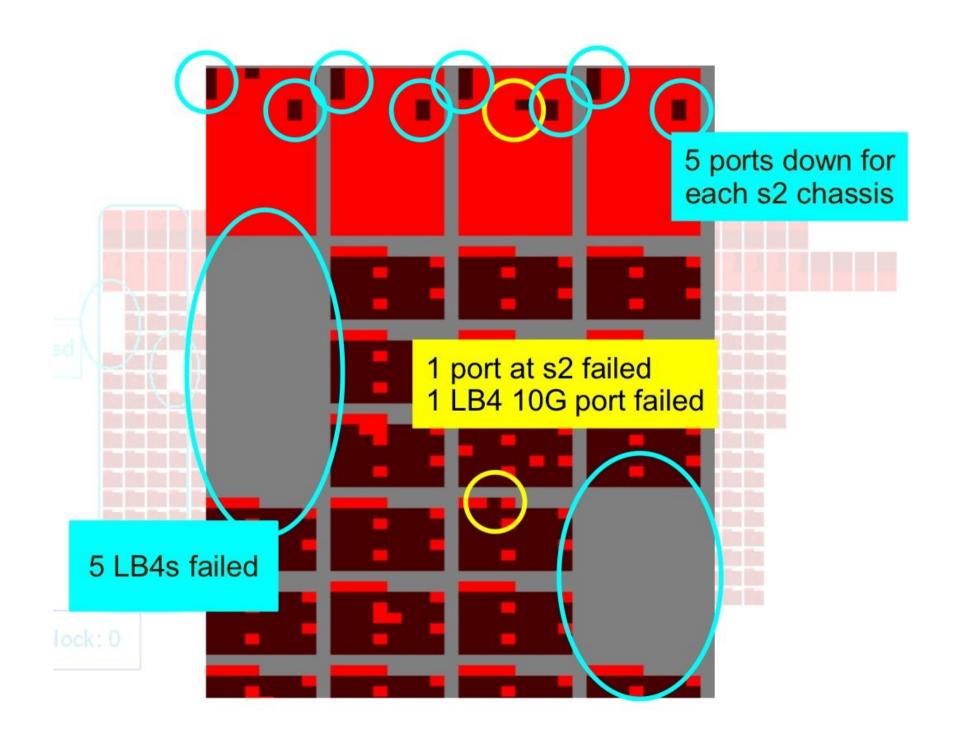
Visualization of Fabrics



10GE GE









0.0	0.0	101.1M 87.9M	84.8M 66.2M	7.0 6.8	96.1M 94.0M	90.5M 76.6M	103.6M 79.2M	106.0M 58.8M
0.0	0.0	84.9M 56.4M	97.5M 56.1M	78.4M 47.8M	99.8M 100.1M	93.4M 82.7M	84.7M 78.4M	80.4M 52.9M
0.0	0.0	88.8M 63.5M	67.6M 71.5M	97.5M 96.1M	60.8M 58.4M	100.1M 72.7M	101.3M 69.2M	78.0M 63.4M
80.6M	54.5M	99.9M 74.0M	107.9M 63.9M	65.7M 60.7M	102.3M 99.2M	113.8M 73.6M	0.0 0.0	85.5M 75.4M
75.9M	52.8M	97.6M 81.6M	81.2M 56.4M	71.1M 45.2M	77.1M 65.9M	95.7M 109.5M	0.0 0.0	85.6M 77.8M
85.5M	72.4M	116.8M 102.9M	94.7M 75.7M	117.6M 74.1M	117.7M 108.4M	94.7M 66.0M	103.6M 82.0M	106.5M 77.0M
73.8M	99.2M	109.8M 70.0M		83.1M 51.0M	90.0M 67.5M	101.5M 76.1M	102.2M 81.7M	106.0M 77.1M
95.0M	69.6M	72.6M 83.4M		77.7M 52.3M	96.2M 70.3M	103.3M 71.8M	80.4M 74.6M	54.9M 133.5M
57.3M	77.8M	54.5M 73.0M	53.9M 74.3M	62.5M 73.5M	59.2M 73.5M	59.2M 69.3M	58.3M 71.0M	57.1M 75.0M
55.2M	67.6M	56.2M 73.8M	53.0M 67.8M	57.8M 74.3M	57.8M 71.5M	60.9M 70.7M	58.4M 76.2M	54.6M 71.8M
57.9M	71.9M	52.1M 65.7M	54.7M 74.1M	61.5M 71.1M	60.7M 72.2M	58.0M 65.1M	59.6M 68.6M	64.3M 77.2M
57.7M	73.9M	58.8M 65.4M		63.5M 72.4M	54.5M 74.2M	57.5M 77.4M	51.0M 74.9M	53.3M 78.0M
60.8M	69.2M	59.0M 76.6M	56.1M 72.5M	54.7M 74.4M	60.9M 77.9M	53.1M 80.2M	59.0M 75.4M	56.2M 77.7M
59.1 M	74.3M	57.2M 75.9M	56.1M 73.1M	52.3M 76.5M	56.9M 75.7M	55.6M 74.2M	55.1 M 74.0 M	57.8M 73.8M
55.1 M	77.3M	78.9M 72.4M	56.2M 72.4M	54.7M 74.2M	53.6M 72.4M	55.9M 67.8M	59.6M 70.1M	58.4M 67.5M
60.0M	70.5M	56.0M 68.7M	61.3M 73.6M	59.1M 66.8M	53.9M 75.6M	58.9M 69.8M	60.3M 72.5M	54.1M 68.4M

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Thanks!