Computer Science Department
Computer Facilities
(CSD-CF)

Your local IT support staff

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Who

- Team of 8
- Local @ Gates Computer Science
- Independent of University IT and School of Engineering IT
- Basic CS Services
- Gates Building Network
- High Performance Computing (HPC) for Research and Teaching
- Full life-cycle support
What

● Network:
  ○ 2.6B flows / month; 1000 flows / second
  ○ 600-700TB / month; 1TB / hour
  ○ 5000 active devices / day
  ○ 600,000 remote IPs / day

● Data Center @ SLAC:
  ○ 460 servers; 980 GPUs
  ○ 25 network switches
  ○ Max RAM: 12TB; Total Storage: ~4.5PB

● Gates:
  ○ 110 servers; 101 VMs
  ○ 22 leaf switches, 6 core switches
https://support.cs.stanford.edu

The thing to remember from this presentation

Or email:
action@cs.stanford.edu
Opening a support request (ticket)

Who

Where

What

GUID
Basic CS Services

- **CSID**
  - Apply for one at [https://cs.stanford.edu/cs.idx](https://cs.stanford.edu/cs.idx)
  - Authentication for most resources here in CS
  - Manage it at [https://cs.stanford.edu/pedit](https://cs.stanford.edu/pedit)
  - Mail forwarding, Web page redirection, Contact information
  - Keep it up to date!

- **Xenon (xenon.stanford.edu)**
  - Linux Shell access via SSH

- **GIN - Gates Information Network**
  - Room scheduling within Gates Building, Waiver forms, Events, …
Email

- **Forwarding only** for @cs.stanford.edu
  - Set destination via [https://cs.stanford.edu/pedit](https://cs.stanford.edu/pedit)
  - Forward to xenon.stanford.edu, your Stanford account, GMail ...
  - Blank forwarding = No email
  - Note: can’t test forwarding from GMail to GMail

- **Spam filtering**
  - Mail through cs.stanford.edu is tagged if it looks like SPAM
  - Subject prefix *****SPAM*****

- **Phishing**
  - Happens regularly, becoming more sophisticated
  - Stanford/CSD-CF will never ask for your password via email
  - Don’t click on web links in email
  - Ask / open a ticket if you are not sure (spam@cs.stanford.edu)
Phishing Example

Email Subscription Service

Dear akrevl@cs.stanford.edu

Sign up to receive e-newsletters produced by CS Departments with information on campus news and events, including plays, concerts, art exhibits, and athletic competitions, as well as local New Haven happenings. A number of these publications are listed below. Receive updates from a variety of campus organizations and offices, including the Graduate and Professional Student Senate (GPSS), Whitney Humanities Center, Center for British Art, Art Gallery, and more!

https://cs.stanford.edu/subscribe/newsletter

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Gates Building Network

“Network is the purest form of a shared resource”
-- Gerth 2018

Register your device at https://cs.stanford.edu/ip

- Wired
  - Register first
  - Never grab an IP address
  - State office, port number (TSO), group affiliation in your request
  - Do not run your own router / DHCP server

- Wireless
  - SSID “Stanford Visitor”: no registration, digitally off-campus
  - SSID “Stanford”: registration required
  - Do not run your own wireless network

- Connecting to Stanford networks requires MinSec compliance
Security

- Open research network (if we can keep it)
  - Your computer **will** be under attack as soon as it appears on the network
  - Default & easy to guess accounts compromised in 2 min - 2 hrs
  - Keep your software up-to-date

- Use strong passwords, and do not share them
  - Containing upper and lowercase letters, digits, punctuation
  - Password length is your friend
  - Password managers are ok (dashlane!), so are little black notebooks
  - **NEVER** set easy “temporary” passwords

- MinSec
  - [https://minsec.stanford.edu](https://minsec.stanford.edu)
  - Compliance for all devices connected to Stanford
  - Every time you work with a new dataset, **check** MinSec
https://support.cs.stanford.edu

THE THING TO REMEMBER FROM THIS PRESENTATION

Or email: action@cs.stanford.edu
Useful links

- [https://support.cs.stanford.edu](https://support.cs.stanford.edu)
  - CSD-CF support portal

- [https://cs.stanford.edu/csdcf](https://cs.stanford.edu/csdcf)
  - These slides and other useful information

- [https://cs.stanford.edu/pedit](https://cs.stanford.edu/pedit)
  - CSID, email forwarding, and personal information

- [http://cs.stanford.edu/ip](http://cs.stanford.edu/ip)
  - Connect a new computer to the network

- [https://minsec.stanford.edu](https://minsec.stanford.edu)
  - Minimal Security Requirements