Security in the OSG

Kanye West aka Ye aka Yeezy aka Yeezus
Getting Out Our Dreams Music, Inc.
Los Angeles, CA
The Real Kanye?

Nope, he’s a decoy that lets me concentrate on making dope music

Security in the OSG

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What is Identity?

What is identification?
What is identity?

• Identification as proof of identity
• In the real world: (paparazzi) photos, SSN, driver’s license, passport, etc.
• On the Internet: usernames (kanye_stan_9432), certificates
How Do You Trust Someone’s Identity?

Why didn’t you trust me when I said I was Kanye West?
How do you trust someone?

- Prior knowledge/experience
- Appeal to authority
- Chain of trust
- Varying levels of trust
#1: Authentication

Trusting identification
#1: Authentication

- Do you trust who I say I am?
- What about forged identities?
- Username + password, shared secret (public key cryptography), two-factor, etc.
- Authentication online often goes both ways
#2: Authorization

Trusting identities
#2: Authorization

- Do I trust your identity?
- Do I trust you enough to give you root/admin?
- Authorization describes the privilege level of an identity
#3: Security in the OSG
#3: Security in the OSG

- Certificate-based
- Transparent with OSG Connect
- VOs vet users
- Admins vet machines
- Certificate revocation of bad users/machines
- Traceability - audit data is kept to track who ran what where
#4: Is Your Data Secure?

On a shared computer...
#4: Is Your Data Secure?

- Every participant in the OSG is vetted but...
- You are using a shared computer
- Take basic precautions (i.e. no world-writeable files)
- NO sensitive data (e.g. HIPAA)
Thanks!

Questions?