

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



Source: <http://lensng.com/wp-content/uploads/2016/07/mgid-ao-image-mtv.jpg>

Security in the OSG

Brian Lin
OSG Software Team
University of Wisconsin - Madison

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)
- 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?
- Authorization describes the privilege level of an identity

#3: Security in the OSG

Hey, that's the name of the talk!

#3: Security in the OSG

- Certificate-based
- Transparent with OSG Connect
- VOs vet users
- Admins vet machines
- Certificate revocation of bad users/machines

#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?