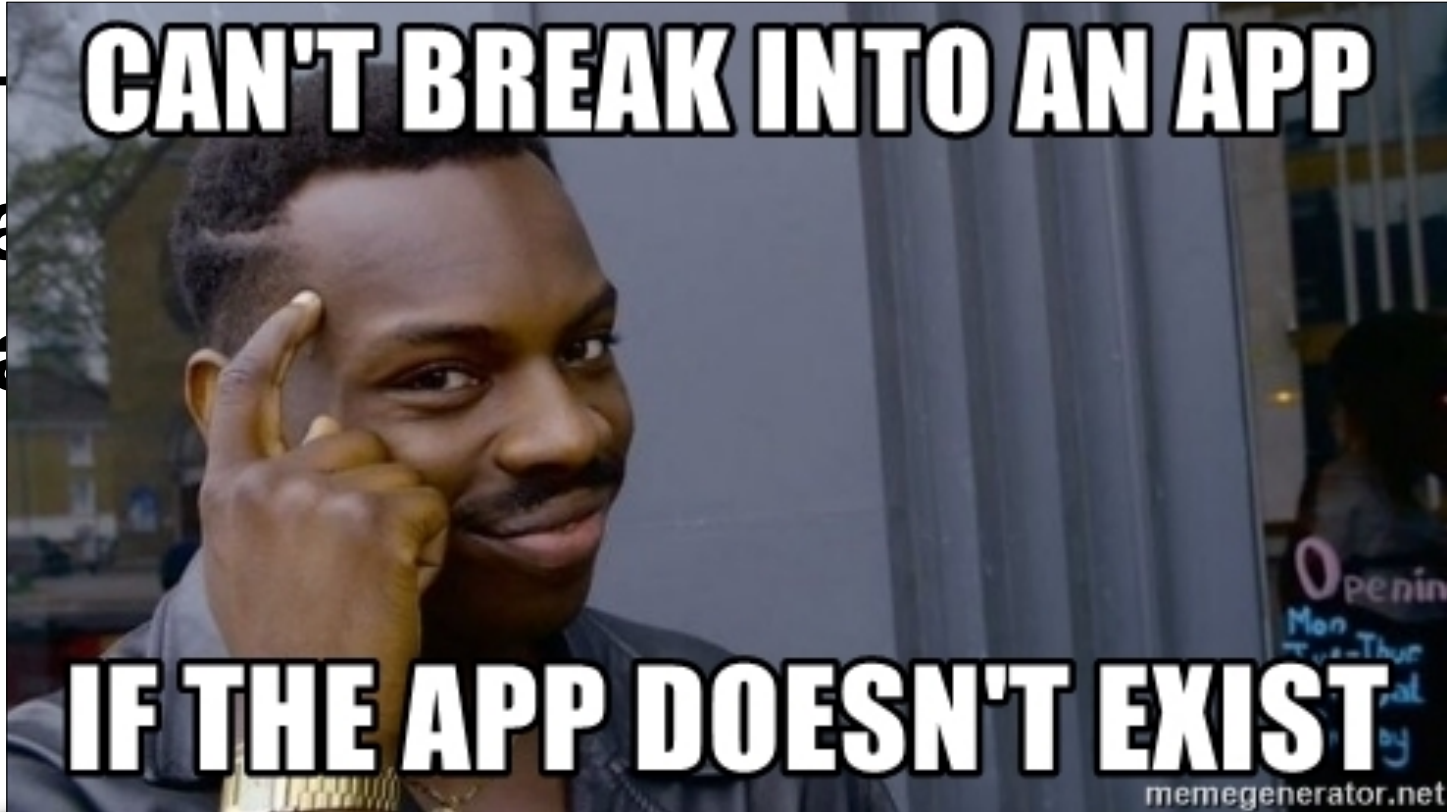




**Security**  
**Scott Spendolini**

**Typical.**

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EX

memegenerator.net

# Thoughts

- Security starts day 1 and never ends
- Use an automated tool; but still conduct manual reviews
- Educate yourself on APEX security
- Create and adhere to APEX best practices
- Keep current w/APEX releases
- If you wait until the end of the project to secure your application, you did it wrong, and there's nothing anyone can do to help

# Thoughts

- Turn off report downloading
- Build an error function and use it to record and obfuscate errors
- Monitor your logs - page view & access
- Preserve your logs
- Lock down production

# Protect Your Data

- Data security starts at the database
- TDE
- VPD
- OLS
- Redaction

# Stupid Things I've Seen

- Clear text passwords
- No application-level authorization schemes
- No SSL/TLS
- Javascript in every possible field
- All passwords the same/weak
- Developing on Production
- “We don't need security, it's all internal”
- Old versions

**Security is hard.  
If it's easy, it's wrong.**