PL/SQL Secure Coding

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Important Terms

Exploit: Take advantage of a flaw or feature

SQL Injection: Change a sql statement so it executes code that was not intended. Think change the code execution path.

Hack: Anything can be hacked. Do something it was not intended to do or something you did not think it could do.

Spillage: Sensitive data has "spilled" outside it's protected environment. It may not be compromised.

Leak: Sensitive data has spilled outside of it's protected environment. It has been compromised.

Brain Hacking Demo

Anything can be hacked. Hacking is getting something to do what it was not intended to do or something you did not think it could do.

"Young man, success comes in can, failure comes in can't."
Adm Grace Hopper to a young Robert Lockard 1978.

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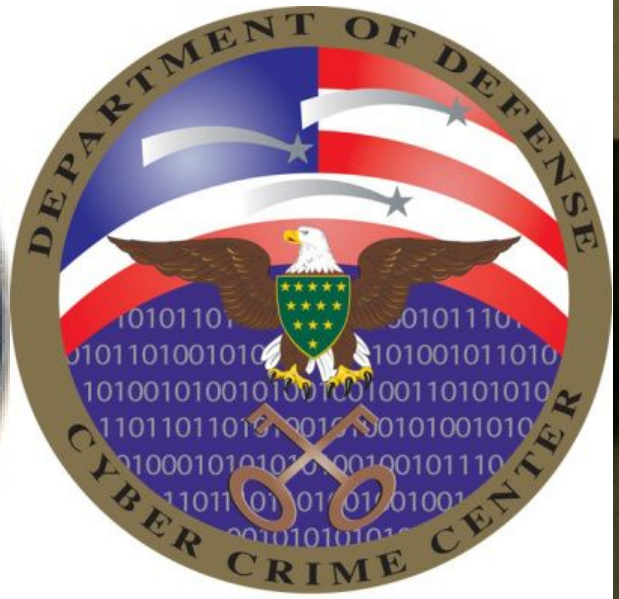

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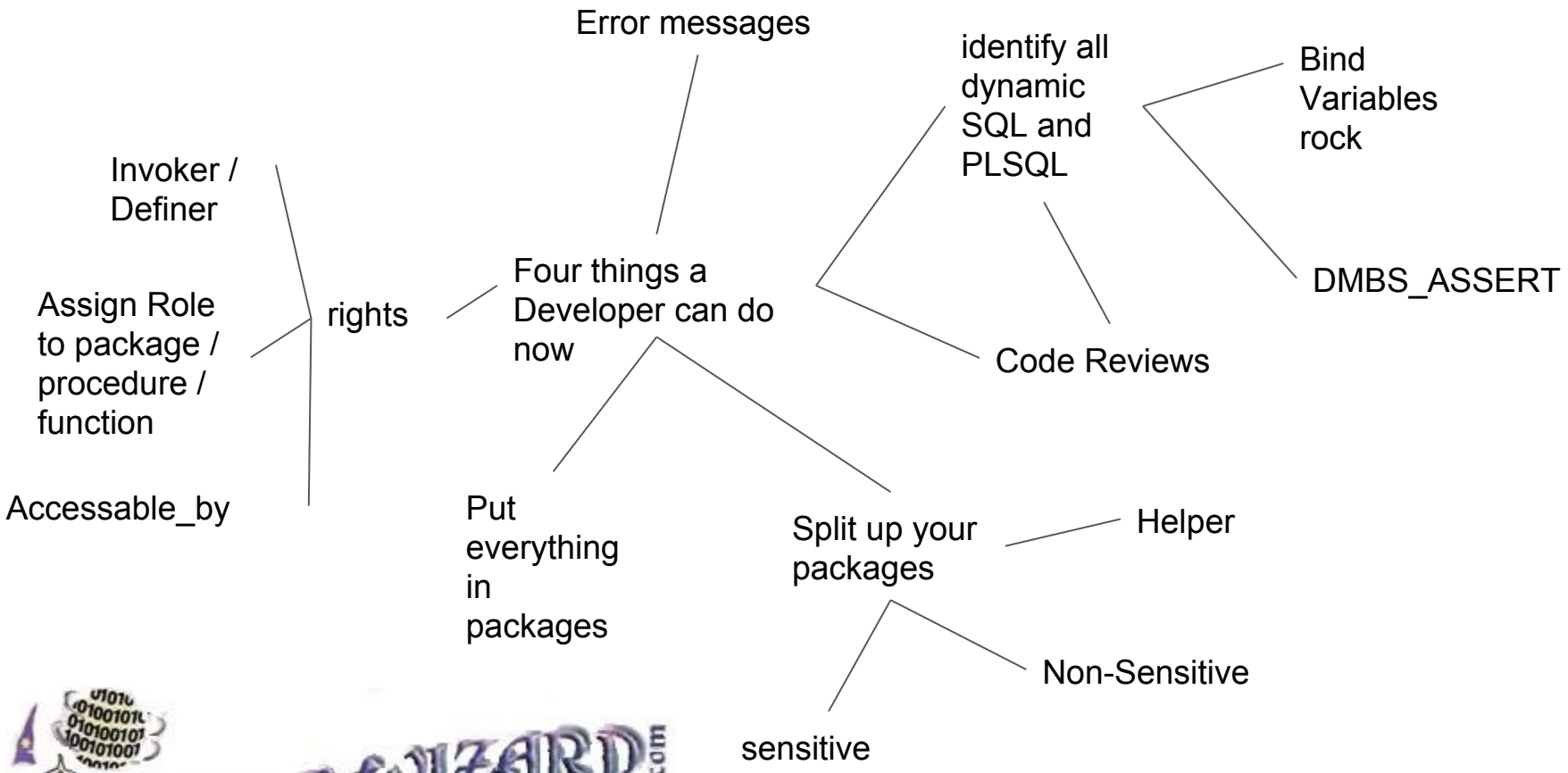
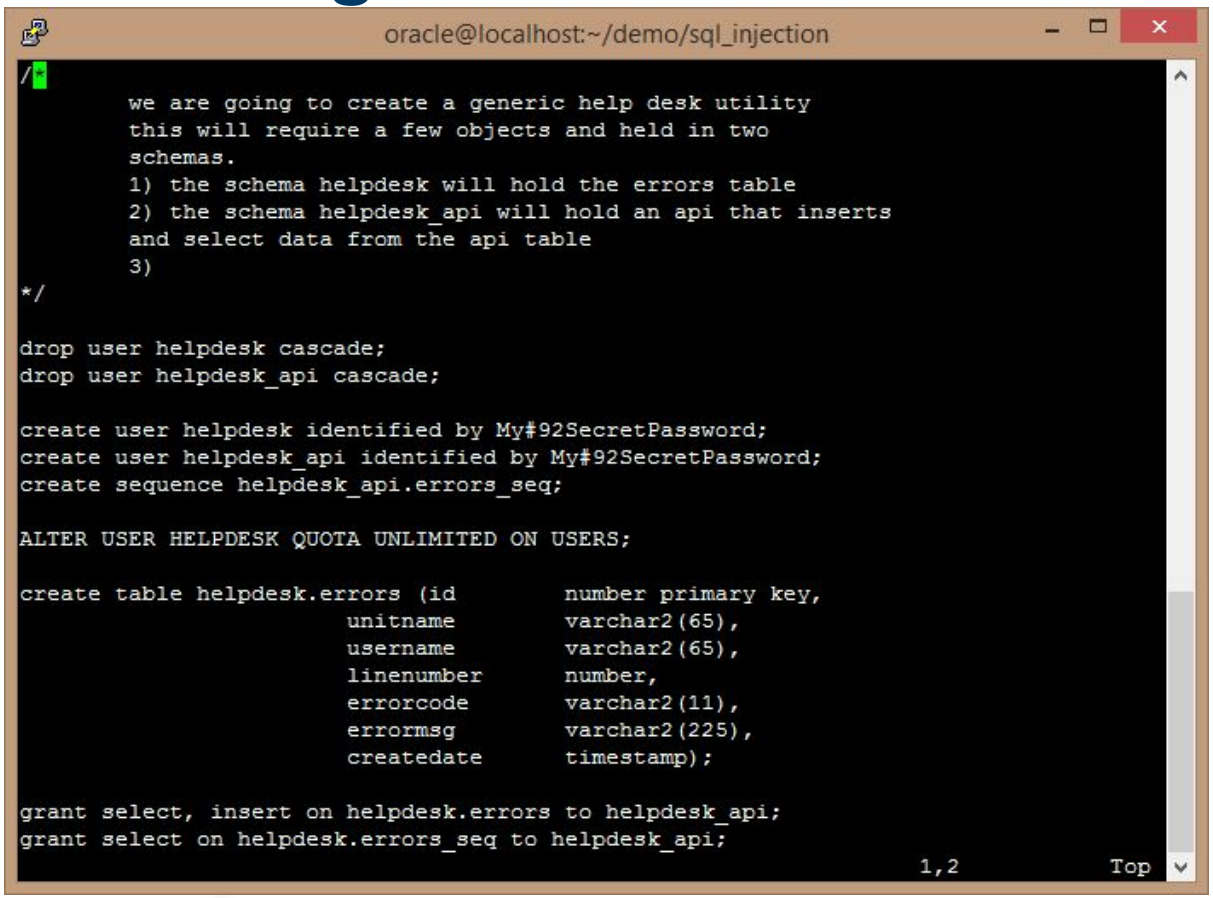
4 things developers can do now to improve security… in process …..

Oooopsy, I lied, there are more than 4 things. :-)



Error Messages



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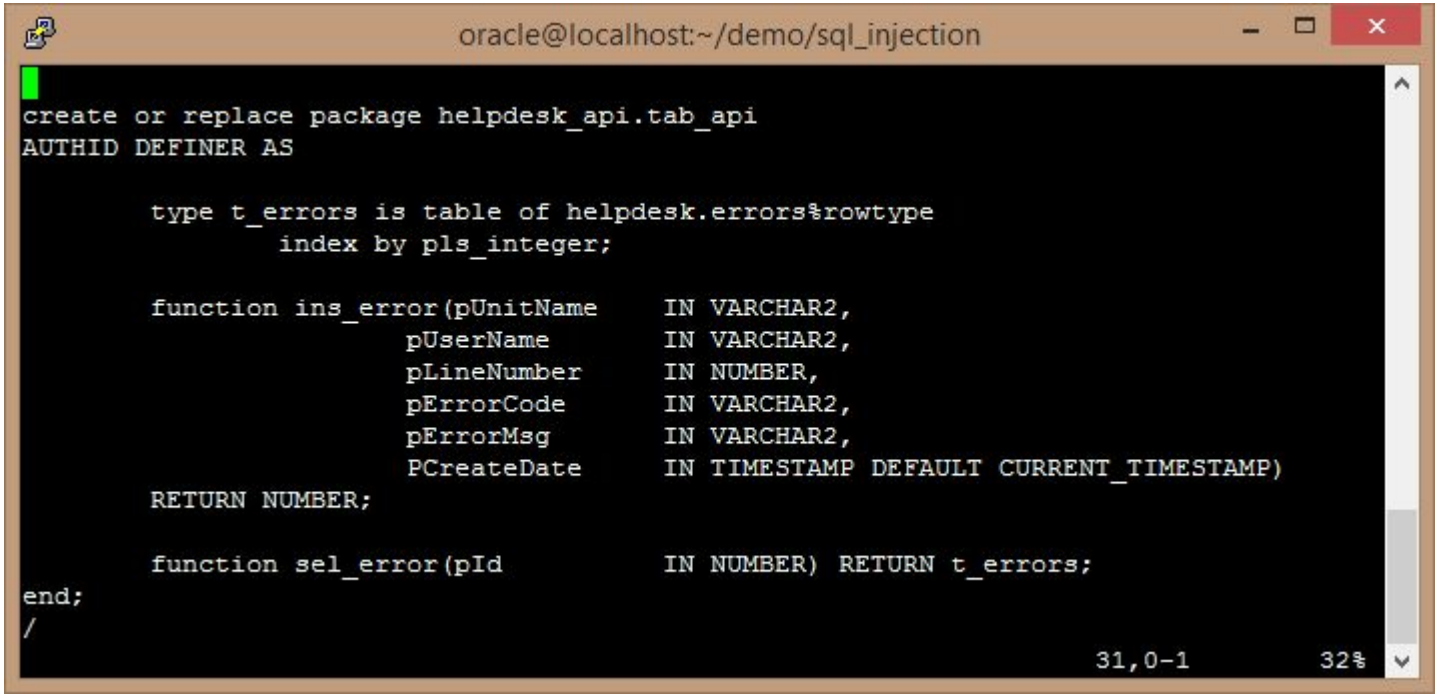
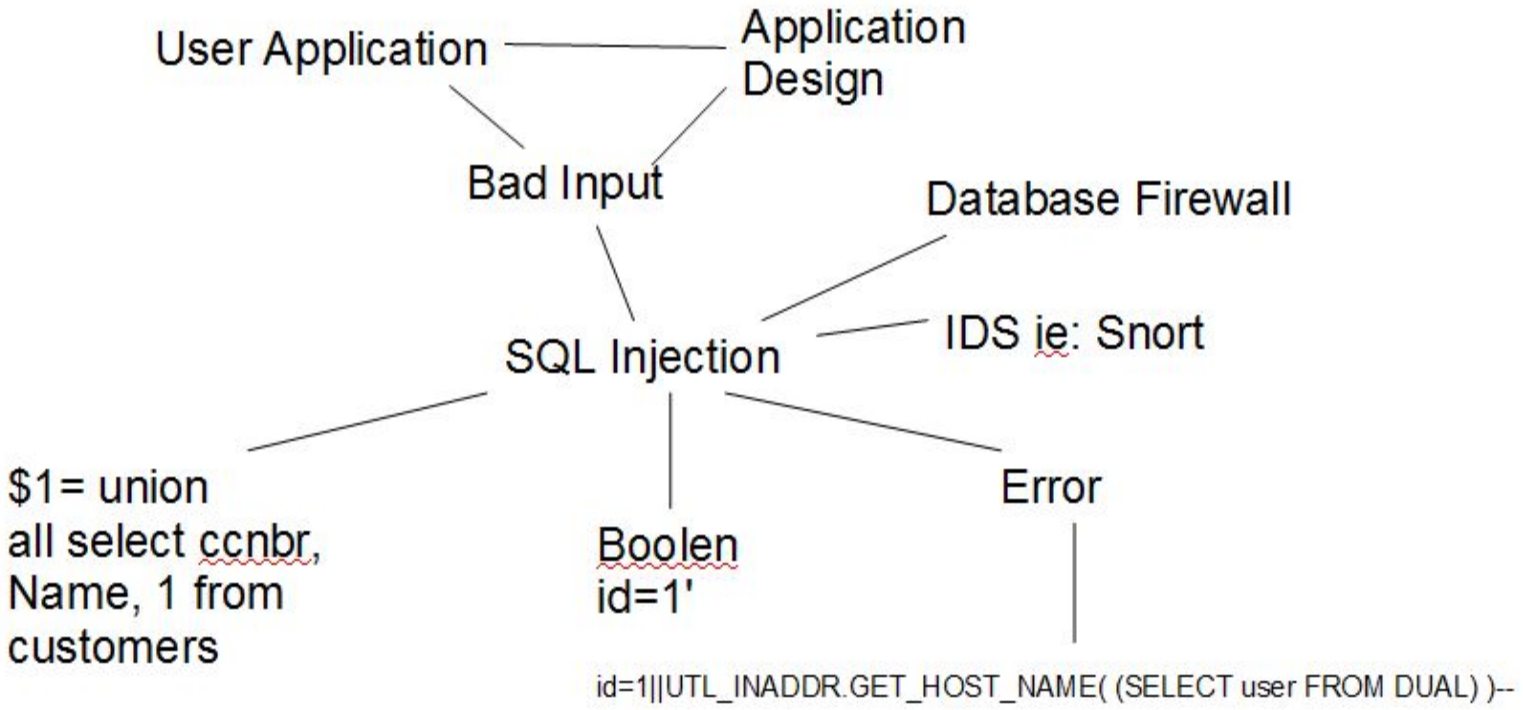


SQL Injection



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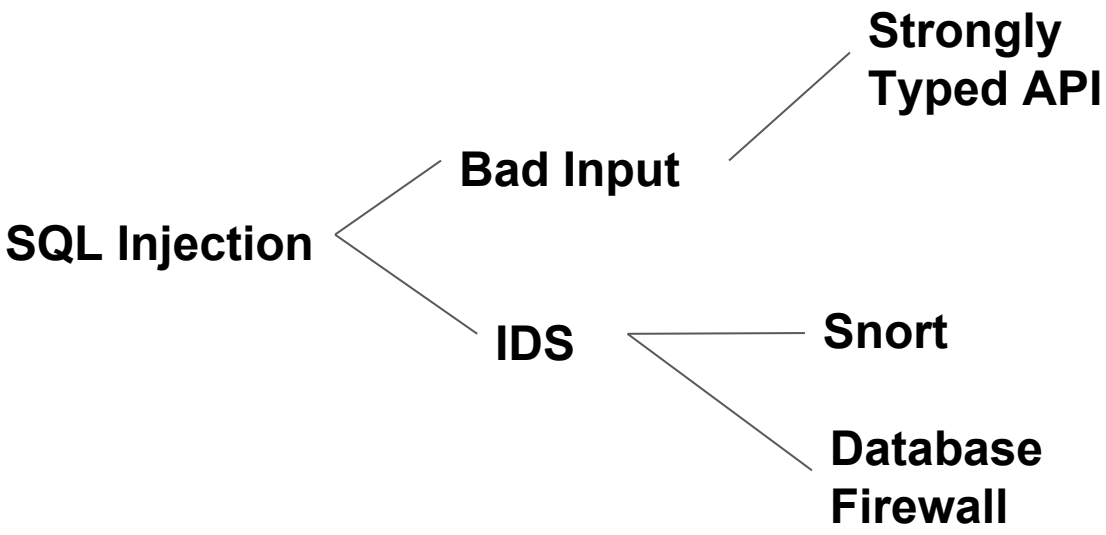
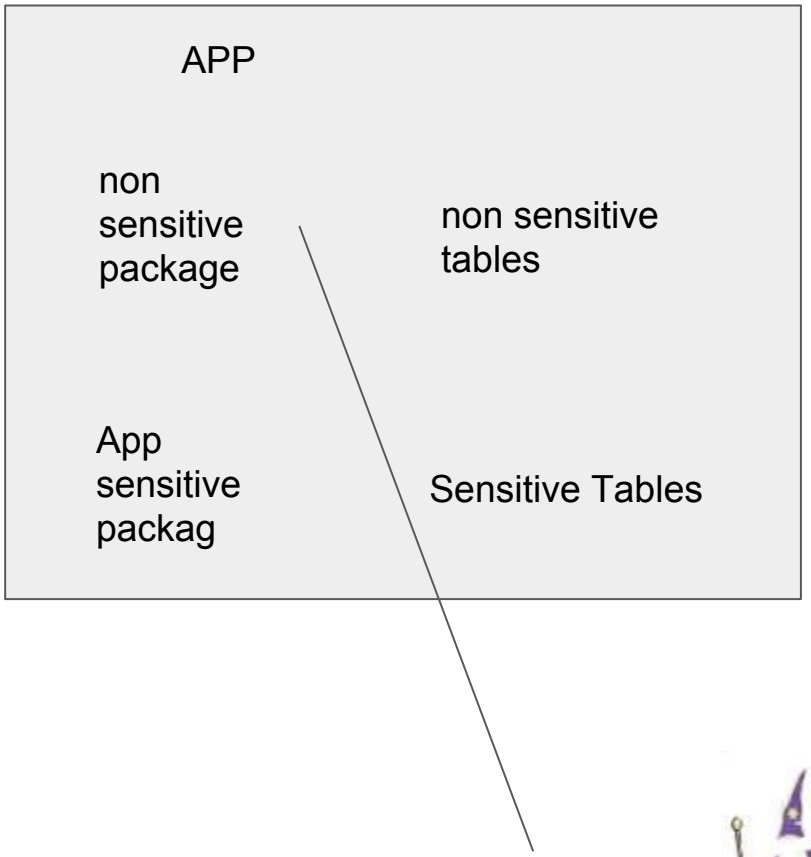
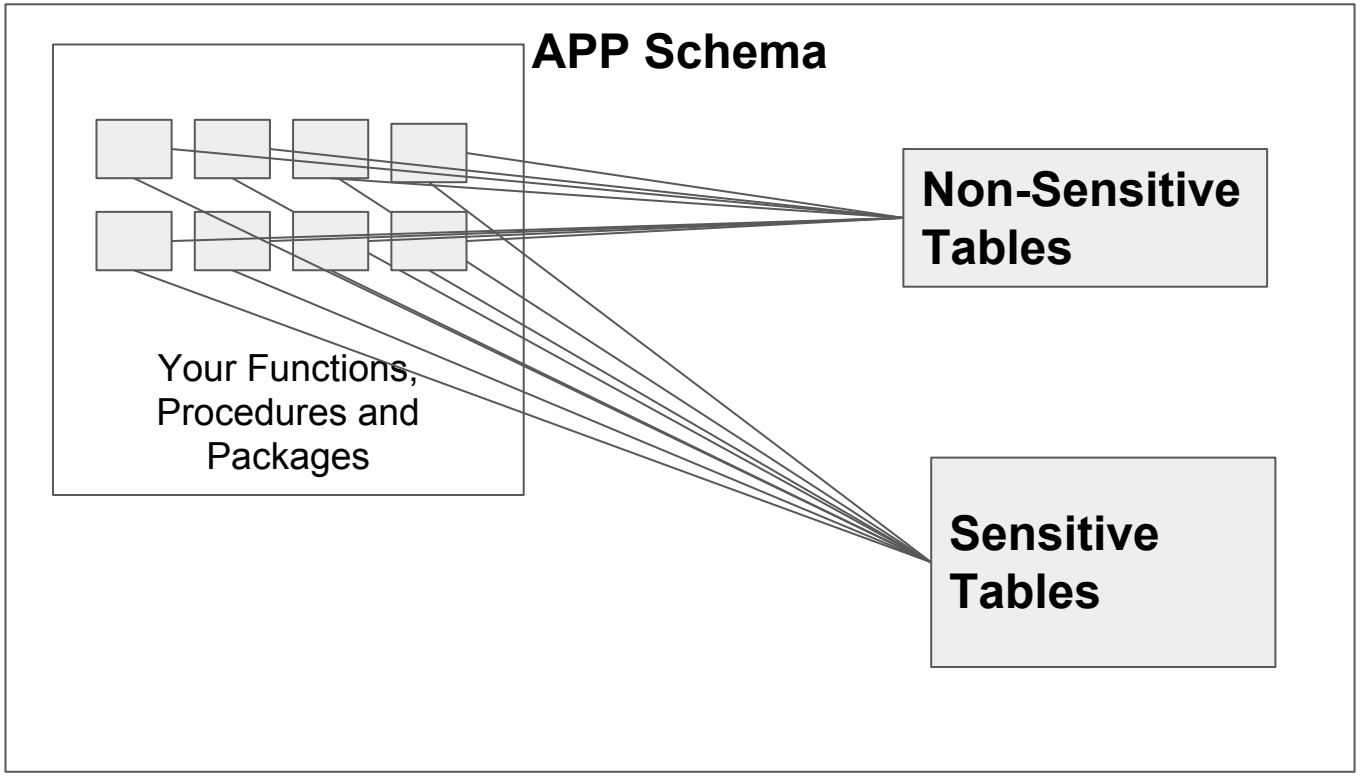


Separate your data from your code



Limit the number of ways to get to your sensitive data. Trusted Path



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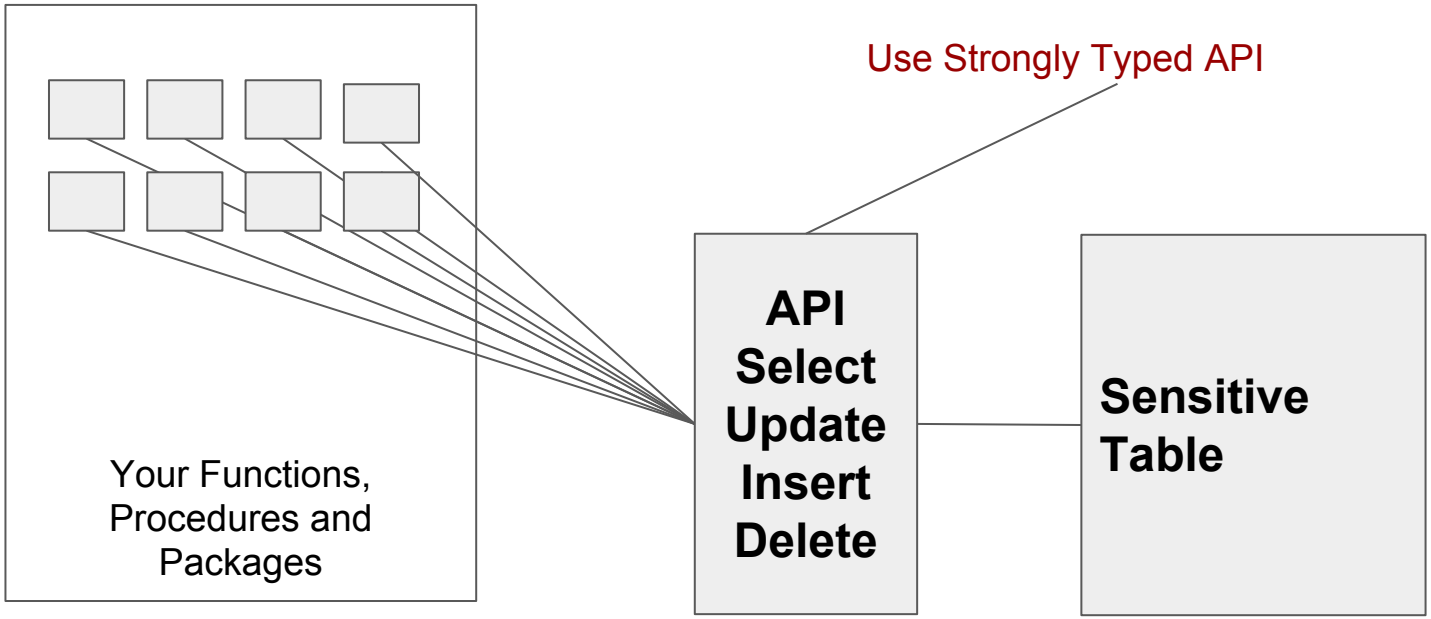

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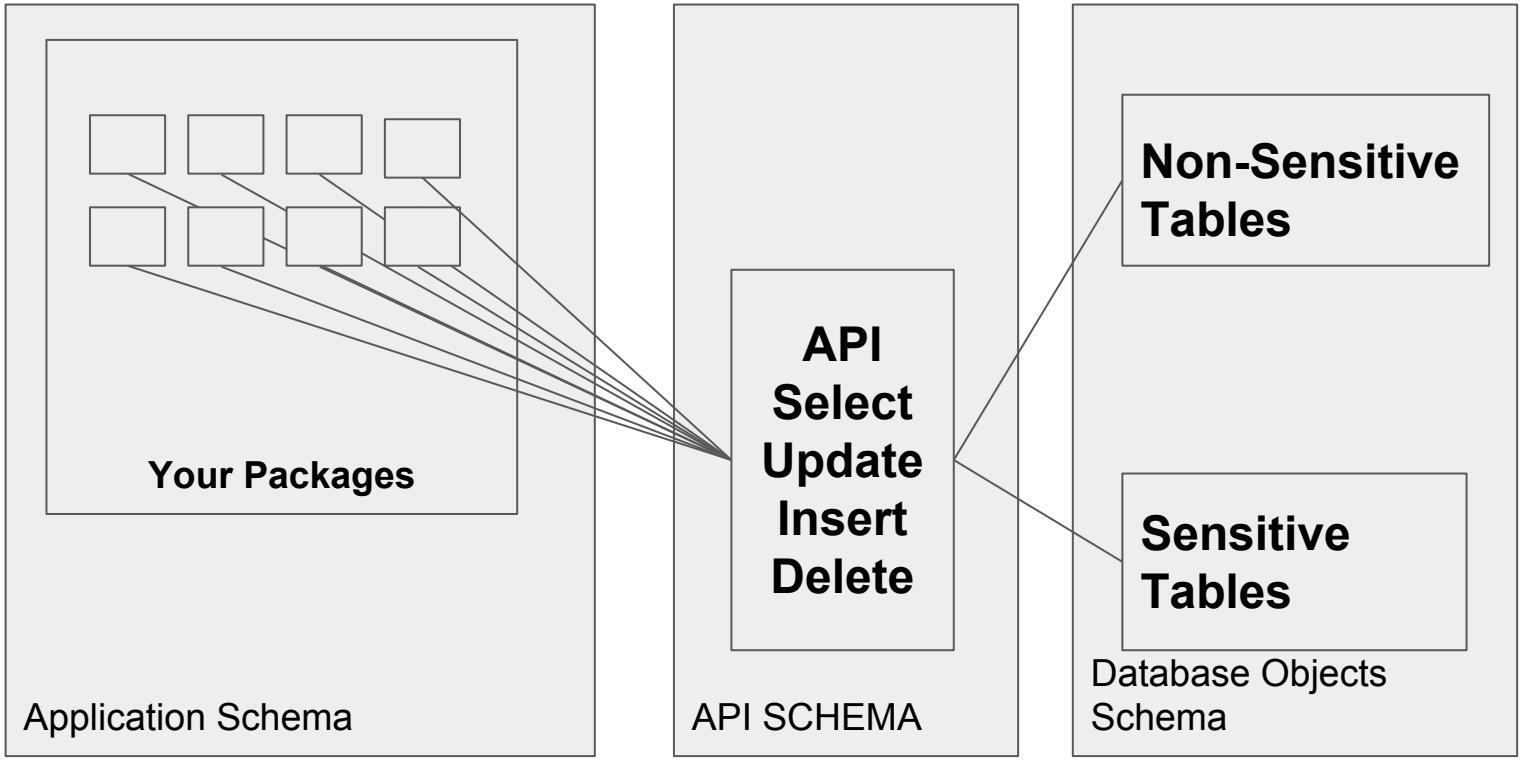

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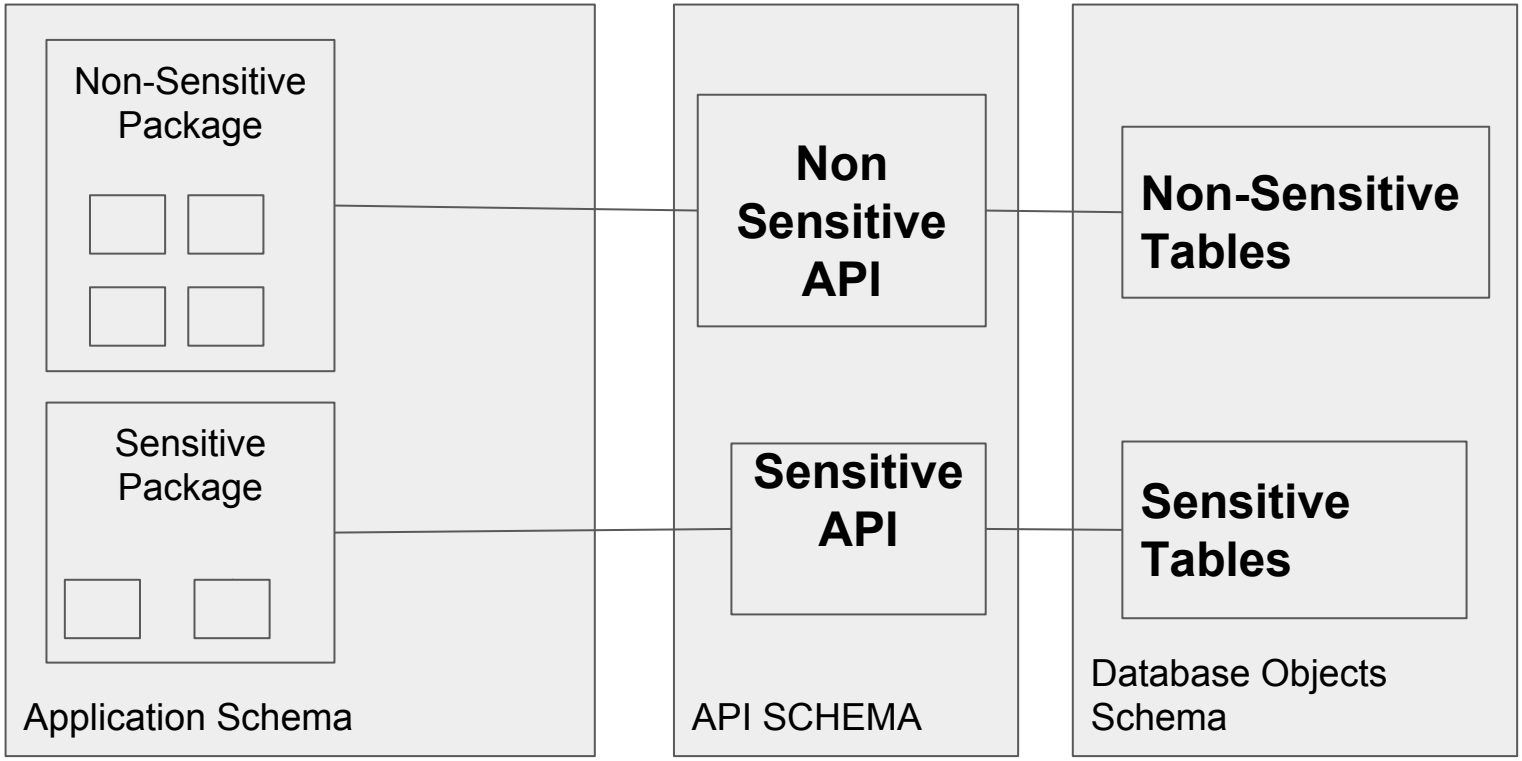

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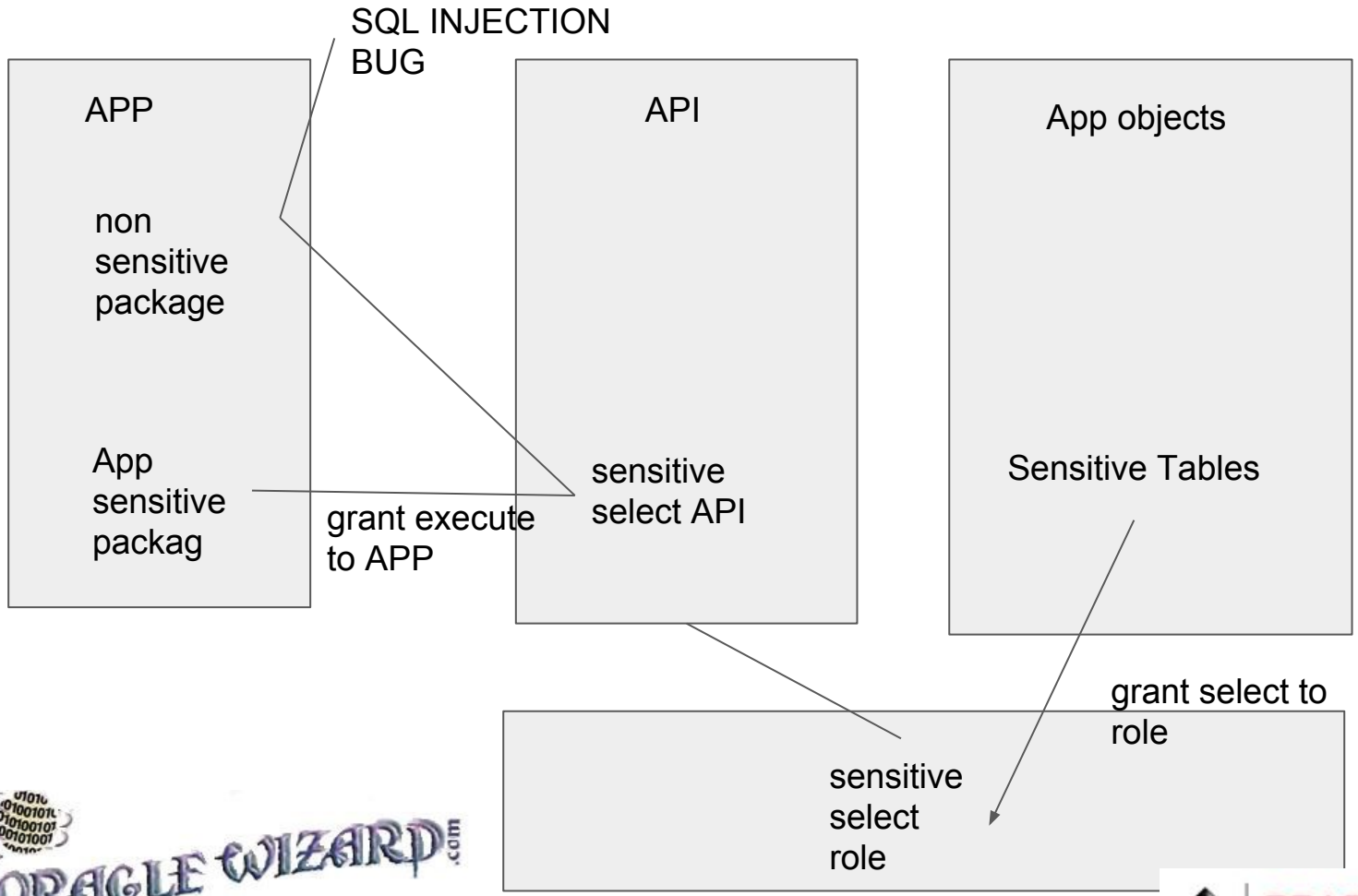

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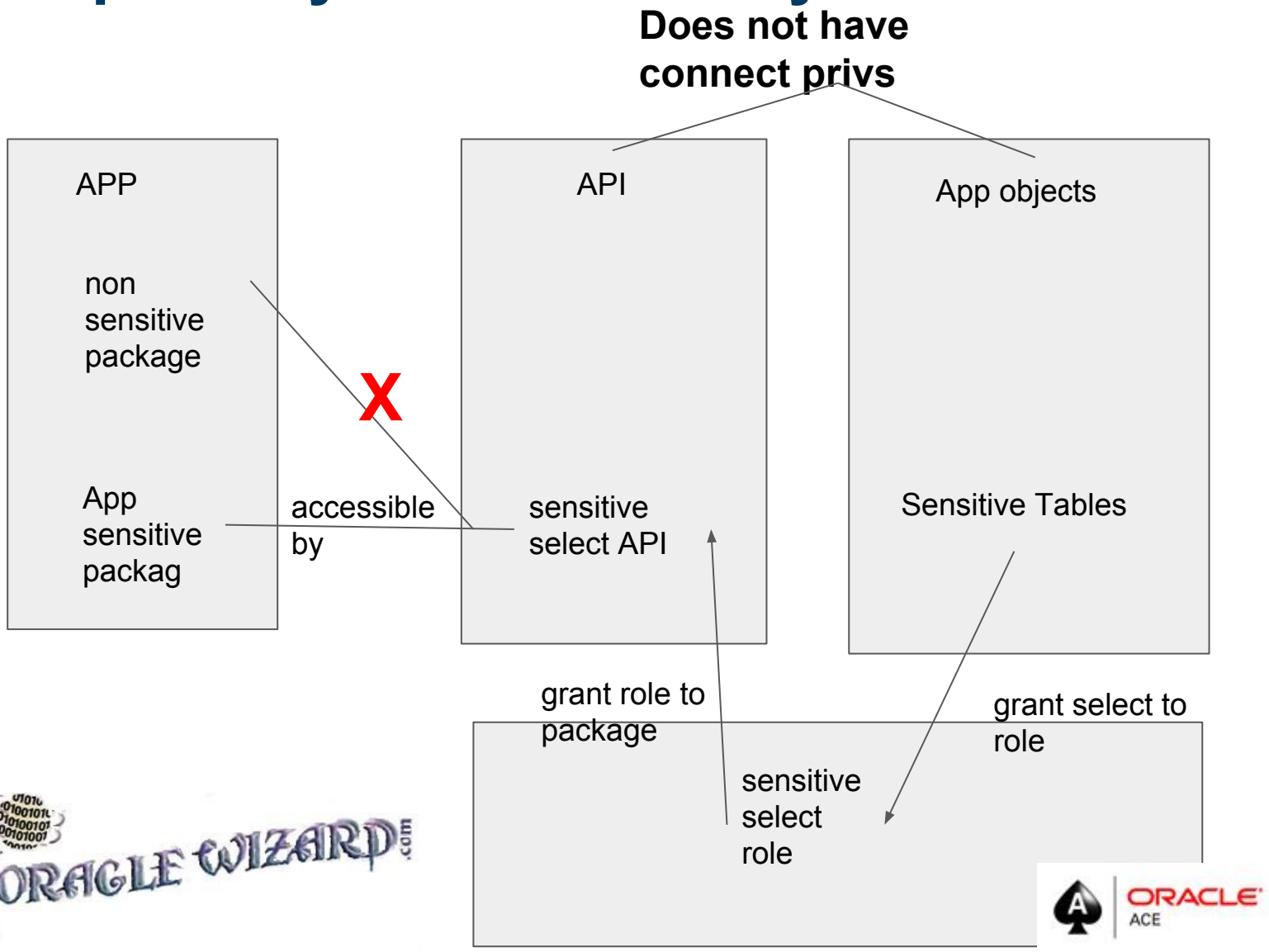

Resources

http://csrc.nist.gov/publications/nistpubs/800-122/sp800-122.pdf

https://docs.google.com/spreadsheets/d/1Dvl_CbX2b0NGFzE2gVLQb1-Nc6litfpGtoTB9iytWfM/edit?usp=sharing

Youtube search for “May 2016 CodeTalk: Securing PL/SQL Code From Attacks

Google Search “sql injection proof pl/sql”

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