

Apply access controls to database

Assignment guidance

Students are to use **MySQL Workbench** complete assignment. You are to submit a .zip file that includes the database and accompanied PowerPoint file showing screenshots and text providing rationale for what was done.

Naming convention:

LastNameFirstName_Assignmentx.zip,
LastNameFirstName_Assignmentx.doc,
LastNameFirstName_Assignmentx.ppt

Create a database

Download database at

<https://www.start.umd.edu/gtd/contact/>

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GTD

GLOBAL TERRORISM DATABASE

ABOUT GTD USING GTD FAQ TERMS OF USE CONTACT

START HOME PAGE

Search the Database

SEARCH

I'm a New User **ADVANCED SEARCH**


Browse by: Go

Information on more than 180,000 Terrorist Attacks

The Global Terrorism Database (GTD) is an open-source database including information on terrorist events around the world from 1970 through 2017 (with annual updates planned for the future). Unlike many other event databases, the GTD includes systematic data on domestic as well as international terrorist incidents that have occurred during this time period and now includes more than 180,000 cases. [Learn more](#)

Read more about **Global Terrorism in 2017**

GTD DATA VISUALIZATIONS



The **GTD World Map: 45 Years of Terrorism** displays terrorist violence that occurred worldwide between 1970 and 2015.

THIS DATE IN TERRORISM

September 6

1999 Unknown, Yemen

09/06/1999: Armed tribesmen kidnapped three Sudanese teachers in the Marib Province of Yemen. The teachers were released on September 17, 1999.

[Learn more](#)

2011 Muang, Thailand

09/06/2011: On Tuesday, in the Bang Por Sub-district of Muang, Narathiwat, Thailand, two gunmen rode up to a tea shop on a motorcycle and one of them proceeded to shoot five patrons with a

FEATURED

Message from the Global Terrorism Database Manager

For more than a decade, START has compiled and published the Global Terrorism Database (GTD) for use by scholars, analysts, journalists, security professionals, and policy makers. It has been our privilege to work closely with these user communities to continually improve the data and inform stakeholders.

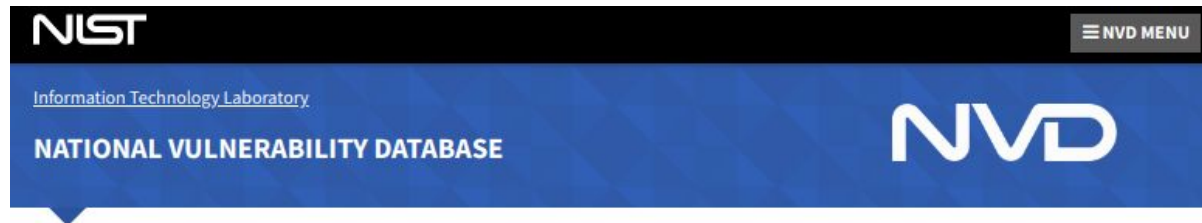
Since 2012, the majority of the costs of collecting the GTD have been funded by the U.S. State Department, for the past year almost exclusively. Our contract with the State Department ended in May 2018 and, although we received only positive feedback from the Bureau of Counterterrorism and our 2018 data

NIST controls

Controls can be located at

<https://nvd.nist.gov/800-53> or
<https://nvd.nist.gov/800-53/Rev4/search>

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NIST Special Publication 800-53

PLEASE NOTE

This NIST SP 800-53 database represents the security controls and associated assessment procedures defined in NIST SP 800-53 Revision 4 Recommended Security Controls for Federal Information Systems and Organizations. Any discrepancies noted in the content between this NIST SP 800-53 database and the latest published NIST Special Publication SP 800-53 Revision 4, please defer to the official published documents that is posted on <http://csrc.nist.gov>.

NIST SP 800-53 (Rev. 4)

Security Controls

- [Low-Impact](#)
- [Moderate-Impact](#)
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800-53 (Rev. 4)

Security Controls

[Low-Impact](#)
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Other Links

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Separation of duties

View at

<https://nvd.nist.gov/800-53/Rev4/control/AC-5>

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NIST Special Publication 800-53 (Rev. 4)

Security Controls and Assessment Procedures for Federal Information Systems and Organizations

AC-5 SEPARATION OF DUTIES

Family: AC - ACCESS CONTROL			
Class:			
Priority: P1 - Implement P1 security controls first.			
Baseline Allocation:	Low	Moderate	High
	N/A	AC-5	AC-5

Jump To:

[Revision 4 Statements](#)
[Control Description](#)
[Supplemental Guidance](#)
[References](#)

[All Controls > AC > AC-5](#)

Control Description

The organization:

- Separates [Assignment: organization-defined duties of individuals];
- Documents separation of duties of individuals; and
- Defines information system access authorizations to support separation of duties.

Supplemental Guidance

Separation of duties addresses the potential for abuse of authorized privileges and helps to reduce the risk of malevolent activity without collusion. Separation of duties includes, for example: (i) dividing mission functions and information system support functions among different individuals and/or roles; (ii) conducting information system support functions with different individuals (e.g., system management, programming, configuration management, quality assurance and testing, and network security); and (iii) ensuring security personnel administering access control functions do not also administer audit functions.

Related to: AC-3, AC-6, PE-3, PE-4, PS-2

Create 4 roles

2

MySQL Workbench

Local instance 3306 x Local instance 3306 x

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

- new_schema
- new_schema123
- removeme

Object Info Session

No object selected

Query 1 x Administration - Users and Privileges x

Local instance 3306

Users and Privileges

Select an account to edit or click [Add Account] to create a new one

User	From Host
debian-sys-maint	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost

Login Account Limits Administrative Roles Schema Privileges

Login Name: You may create multiple accounts with the same name to connect from different hosts.

Authentication: SHA256 Password For the standard password and/or host based authentication select 'Standard'.

Limit to Hosts: % and _ wildcards may be used

Password: Type a password to reset it.

Consider using a password with 8 or more characters with mixed case letters, numbers and punctuation marks.

Confirm Password: Enter password again to confirm.

Expire Password:

Authentication: Authentication plugin specific parameters.

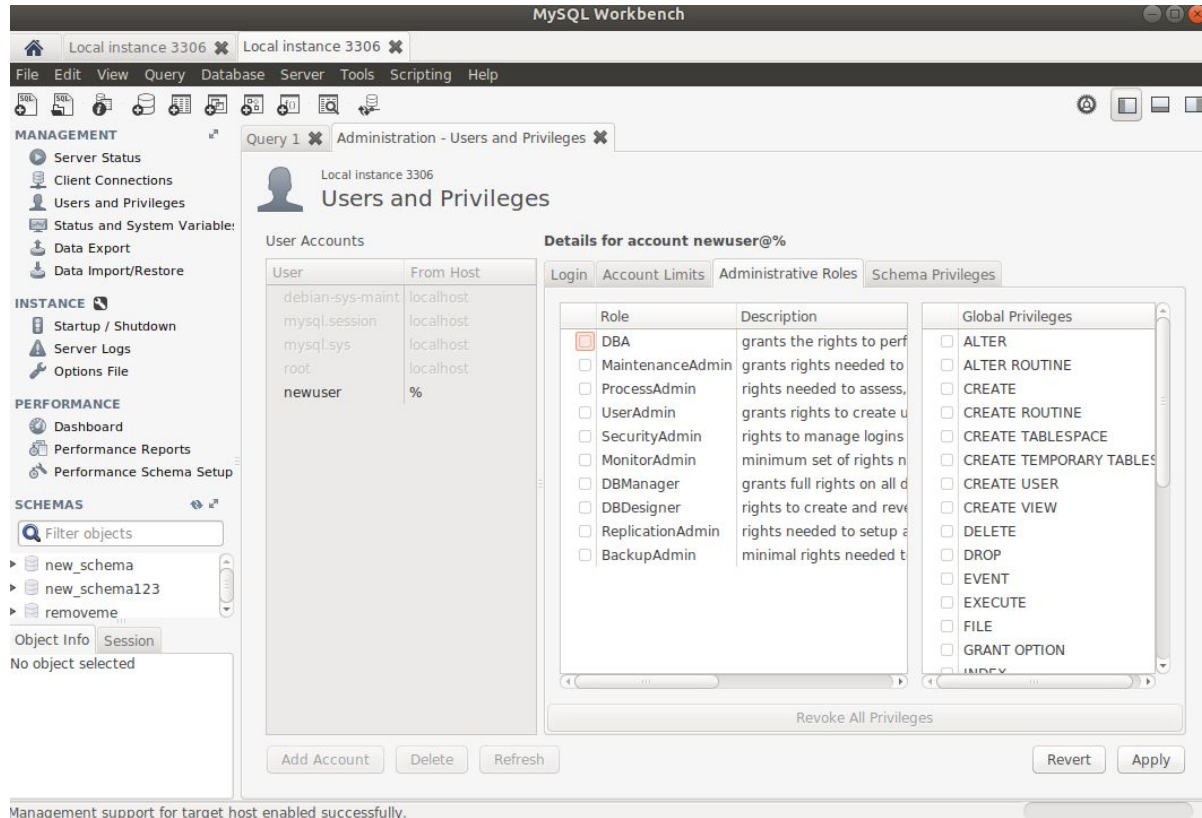
Add Account Delete Refresh Revert Apply

Management support for target host enabled successfully.

Create 4 roles

Create 4 new accounts with 1 being administration and the 3 being users. Each account needs to have distinct privileges.

2



Unsuccessful logon attempts

Provide a limit for a. and then provide how this would be implemented if unable to not do this in system. Points will be deducted for being unable to technically implement control.

Provide rationale for b. and

3

NIST Special Publication 800-53 (Rev. 4)

Security Controls and Assessment Procedures for Federal Information Systems and Organizations

AC-7 UNSUCCESSFUL LOGON ATTEMPTS

Family: AC - ACCESS CONTROL			
Class:			
Priority: P2 - Implement P2 security controls after implementation of P1 controls.			
Baseline Allocation:			
Low	Moderate	High	
AC-7	AC-7	AC-7	

Jump To:

Revision 4 Statements
Control Description
Supplemental Guidance
References

All Controls > AC > **AC-7**

Control Description

The information system:

- Enforces a limit of [Assignment: organization-defined number] consecutive invalid logon attempts by a user during a [Assignment: organization-defined time period]; and
- Automatically [Selection: locks the account/node for an [Assignment: organization-defined time period]; locks the account/node until released by an administrator; delays next logon prompt according to [Assignment: organization-defined delay algorithm]] when the maximum number of unsuccessful attempts is exceeded.

Help

Google Search - unsuccessful logins to mysql workbench

<https://www.google.com/search?num=40&q=unsuccessful+logins+to+mysql+workbench&spell=1&sa=X&ved=0ahUKEwjFibLM46bdAhWjOn0KHYLMAyMQBOgmKAA&biw=1395&bih=982>

21.33.1 The INFORMATION_SCHEMA CONNECTION_CONTROL_FAILED_LOGIN_ATTEMPTS Table

<https://dev.mysql.com/doc/refman/5.6/en/connection-control-failed-login-attempts-table.html>

Saving every mysql user login attempts

<https://dba.stackexchange.com/questions/30525/saving-every-mysql-user-login-attempts>

5.4 MySQL Server Logs <https://dev.mysql.com/doc/refman/8.0/en/server-logs.html>
