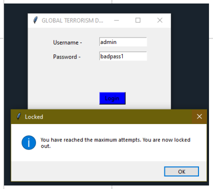
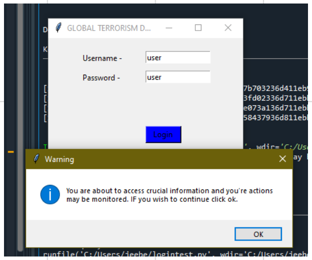
Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail	https://nvd.nist.gov/800-53/Rev4/impact/low
AC-1	Access Control Policy and Procedures	Open documentation policy (AC-1)	Documentation for Test Cases.docx	Text file is opened with access policy listed	File is opened	Pass	
AC-14	Permitted Actions Without Identification or Authentication	Open documentation policy (AC-14)	Documentation for Test Cases.docx	Text file is opened with policy listed with description of organization policy	File is opened	Pass	
AC-19	Access Control for Mobile Devices	Check response when logging in to the database with a username and password on a mobile device	user: admin pass: admin	Login should be successful	Login is successful	Pass	
AC-2	Account Management	Log in to an admin account, and then log out and log in to a guest or temporary account	*Screenshots of the diffrent accounts and their privilages*	Each account should have diffrent privilleges	Accounts have diffrent privilleges	Pass	
AC-5	Separation of Duties	1) Assign roles to table for anyone accessing database 2) Create a username and password specific to each user	user: admin pass: admin	Admin should be able to log in with administrator priveleges	Admin is able to login	PASS	
AC-7	Unsuccessful Logon Attempts	Attempt to log on to the admin account with a false password three times	user: admin pass: badpass1	Login should fail and a message to retry a differnet password should appear	Access denied for user and message Message appears after one try saying "You have reached the maximum attempts. You are now locked out. "	semi - PASS	ac7 pic
AC-8	System Use Notification	Log on to a user account and attempt to access a database	user: user user: user	A banner should appear that warns the user that they are about to access important information	"You are about to access crucial information and you're actions may be monitored. IF you wish to continue click ok."	PASS	ac8
AU-8	Time Stamps	1) Login as a user or admin 2) Query the database	user: user user: user SELECT * FROM event_scrite	Login should be successful with a time stamp indicating time stamp. Query should also result in a time stamp after	Timestamps appear for after you log in and after you query the database	Pass for 1/2 requirements	au8 and ac-5 pic
AT-4	Security Training Records	Open documentation for policy AT-4	Documentation for Test Cases.docx	File is able to be opened	File opened	Pass	
CA-5	Plan of Action and Milestones	Open documentation policy (ca-5)	Documentation for Test Cases.docx	File is able to be opened	File opened	Pass	
CA-7	Continuous Monitoring	The organization will specify which threats in the database will be monitored and status messages will be set up when a new threat is added. Step 1: Open document policy (CA-7)		Organization will follow guidelines and attempt to implement continous monitoring	File is opened and guidelines followed	Pass	
PE-12	Emergency Lighting	Open documentation policy PE-12	Documentation for Test Cases.docx	File is able to be opened	File is opened and guidelines followed	PASS	
CM-10	Software Usage Restrictions	1) Administrator will create a spreadsheet and document any software licenses that are currently in use, date of license, and expiration date 2) Software on that list can be manually or automatically blocked from being used on the system		When a user tries to download a foreign piece of software an error message will pop up and block them from installing the software			

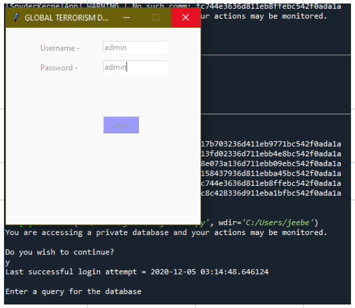


You have reached the maximum attempts. You are now locked out.



You are about to access crucial information and you're actions may be monitored. IF you wish to continue click ok.

```
7b703236d411eb
3fd02336d711eb
e073a136d711eb
58437936d811eb
', wdir='C:/Us
ay
runfile('C:/Users/jeebe/logintest.py', wdir='C:/Users/jeeb
```



```
[SpyderKernelApp] WARNING | No such comm: fc744e3636d811eb8ffebc542f0ada1a
ur actions may be monitored.
17b703236d411eb9771bc542f0ada1a
13fd02336d711ebb4e8bc542f0ada1a
8e073a136d711ebb09ebc542f0ada1a
158437936d811ebba45bc542f0ada1a
c744e3636d811eb8ffebc542f0ada1a
c8c428336d911eba1bfbc542f0ada1a
y', wdir='C:/Users/jeebe')
You are accessing a private database and your actions may be monitored.

Do you wish to continue?
y
Last successful login attempt = 2020-12-05 03:14:48.646124

Enter a query for the database
```

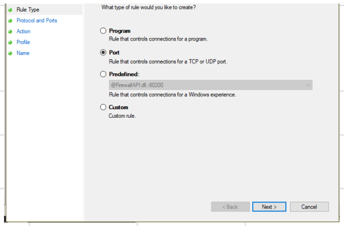
Rule Type

Select the type of firewall rule to create.

Steps:

What type of rule would you like to create?

CM-7	Least Functionality	1) Go to firewall settings 2) Change firewall settings to block specific ports	Port 80	Choose a port and blocked part will not allow connections	Port is blocked from outbound and inbound traffic	PASS		cm-7 pic	
CM-11	User Installed Software	Open documentation policy on CM-11	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
CP-1	Contingency Planning Policy and Procedures	Open documentation on CP-1	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
CP-2	Contingency Plan	Open documentation on CP-2 Step 1: Develop a contigency plan that identifies essential business functions, provides recovery objectives, resoration priorities, and addresses maintaining these essential business functions	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
CP-3	Contingency Training	Open documentation on CP-3	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
CP-4	Contingency Plan Testing	1) The organization will run a simulation of a cyber incident 2) Roles within the organization will be measured using organization metrics 3) Results are calculated from if roles successfully did the neccessary actions	Roles in gtd	Simulation is organized and ran by organization	Simulation was unable to be made by organization	Fail			
CP-9	Information System Backup	1) Go to database files 2) Back up the database manually or automatically (cloud, zip, etc)	Global Terrorism database	A backup is made in zip format	A backup is available in a zip file	PASS			cp9 sc
IA-1	Identification And Authentication Policy and Procedures	Open documentation policy on IA-1	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
IA-4	Identifier Management	1) Login as administrator	* Screenshot of roles in database *	Admin should be able to see all the roles and permissions of other users	Admin is able to see roles and permissions	Pass			
IR-4	Incident Handling	Open documentation policy on IR-4	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
IR-5	Incident Monitoring	Open documentation on IR-5	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
IR-6	Incident Reporting	Open documentation on IR-6	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
MA-1	System Maintenance Policy and Procedures	Open documentation on MA-1	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
PL-2	System Security Plan	1) Administrator opens up documention policy (PL-2)	PL-2.txt	Admin opens file and is able to read file	Admin opens file and is able to read	PASS			
PL-4	Rules of Behavior	1) User opens up app/site to access database 2) User must accept conditions	N/A	User clicks ok and logs in	User clicks ok and is then able to log in	PASS			pl4 picture
RA-5	Vulnerability Scanning	1) Download wireshark or other tool 2) Run wireshark over the network	Wireshark	Packets are scanned while wireshark is running	Packets are scanned while wireshark is running	PASS			
SA-2	Allocation of Resources	Open documentation on SA-2	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
SC-5	Denial of Service Protection	Open documentation on SC-5	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
SI-12	Information Handling and Retention	Open documentation on SI-12	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			
PE-13	Fire Protection	Open documentation on PE-13	Documentation for Test Cases.docx	File is able to be opened	File opened	PASS			



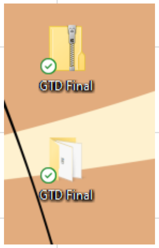
What type of rule would you like to create?

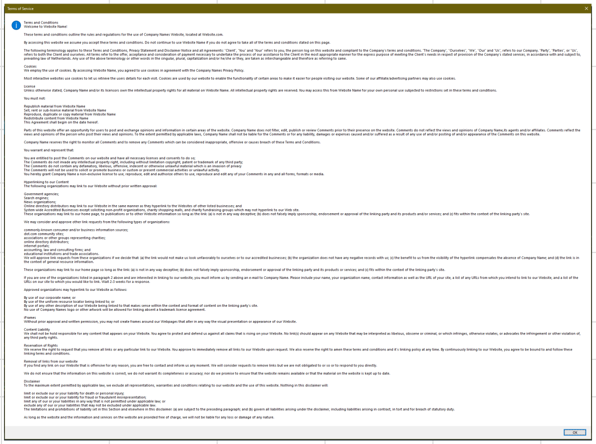
○ Program
Rule that controls connections for a program.

● Port
Rule that controls connections for a TCP or UDP port.

○ Predefined:
@FirewallAPI.dll,-80200
Rule that controls connections for a Windows experience.

○ Custom
Custom rule.





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online directory distributors;
internet portals;
accounting, law and consulting firms; and
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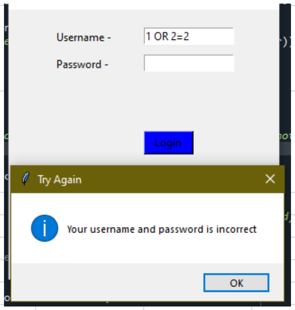
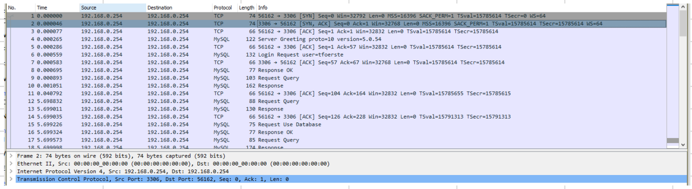
SI-3	Malicious Code Protection	1) User attempts a sql injection (ex: 105 OR 2=2)	user: 1 OR 2=2	A warning saying "Malicious code detected appears"	A message saying incorrect username and password appears	FAIL	si3 picture
SI-4	Information System Monitoring	1) Open wireshark or other software 2) Sort by tcp/udp and mysql and monitor all traffic in network for unauthorized network	wireshark packets	Wireshark is opened and network traffic is recorded	Network traffic is successfully recorded in Wireshark	Pass	
			si4 picture and ra-5				



Username - 1 OR 2=2

Password -

Your username and password is incorrect



```
No.  Time      Source         Destination    Protocol Length Info
   1 0.000000  192.168.0.254  192.168.0.254  TCP        74 56162 → 3306 [SYN] Seq=0 Win=32792 Len=0 MSS=16396 SACK_PERM=1 TSval=15785614 TSecr=0 WS=64
   2 0.000046  192.168.0.254  192.168.0.254  TCP        74 3306 → 56162 [SYN, ACK] Seq=0 Ack=1 Win=32768 Len=0 MSS=16396 SACK_PERM=1 TSval=15785614 TSecr=15785614 WS=64
   3 0.000077  192.168.0.254  192.168.0.254  TCP        66 56162 → 3306 [ACK] Seq=1 Ack=1 Win=32832 Len=0 TSval=15785614 TSecr=15785614
   4 0.000265  192.168.0.254  192.168.0.254  MySQL     122 Server Greeting proto=10 version=5.0.54
   5 0.000286  192.168.0.254  192.168.0.254  TCP        66 56162 → 3306 [ACK] Seq=1 Ack=57 Win=32832 Len=0 TSval=15785614 TSecr=15785614
   6 0.000559  192.168.0.254  192.168.0.254  MySQL     132 Login Request user=tfoerste
   7 0.000583  192.168.0.254  192.168.0.254  TCP        66 3306 → 56162 [ACK] Seq=57 Ack=67 Win=32768 Len=0 TSval=15785614 TSecr=15785614
   8 0.000695  192.168.0.254  192.168.0.254  MySQL      77 Response OK
   9 0.000893  192.168.0.254  192.168.0.254  MySQL     103 Request Query
  10 0.001051  192.168.0.254  192.168.0.254  MySQL     162 Response
  11 0.040792  192.168.0.254  192.168.0.254  TCP        66 56162 → 3306 [ACK] Seq=104 Ack=164 Win=32832 Len=0 TSval=15785655 TSecr=15785615
  12 5.698832  192.168.0.254  192.168.0.254  MySQL      88 Request Query
  13 5.699011  192.168.0.254  192.168.0.254  MySQL     130 Response
  14 5.699035  192.168.0.254  192.168.0.254  TCP        66 56162 → 3306 [ACK] Seq=126 Ack=228 Win=32832 Len=0 TSval=15791313 TSecr=15791313
  15 5.699226  192.168.0.254  192.168.0.254  MySQL      75 Request Use Database
  16 5.699324  192.168.0.254  192.168.0.254  MySQL      77 Response OK
  17 5.699573  192.168.0.254  192.168.0.254  MySQL      85 Request Query
  18 5.699998  192.168.0.254  192.168.0.254  MySQL     174 Response

> Frame 2: 74 bytes on wire (592 bits), 74 bytes captured (592 bits)
> Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
> Internet Protocol Version 4, Src: 192.168.0.254, Dst: 192.168.0.254
> Transmission Control Protocol, Src Port: 3306, Dst Port: 56162, Seq: 0, Ack: 1, Len: 0
```