



LAB 2: Configuring Oracle Database Firewall

1. System Setting

For full details on the System settings, see Chapter 2 : Configuring the Database Firewall System in the Deployment and Administration Guide.

2. Configuring your Oracle Database Firewall

To access your Oracle Database Firewall, use your WinClient virtual machine enter the IP Address into your browser using https:

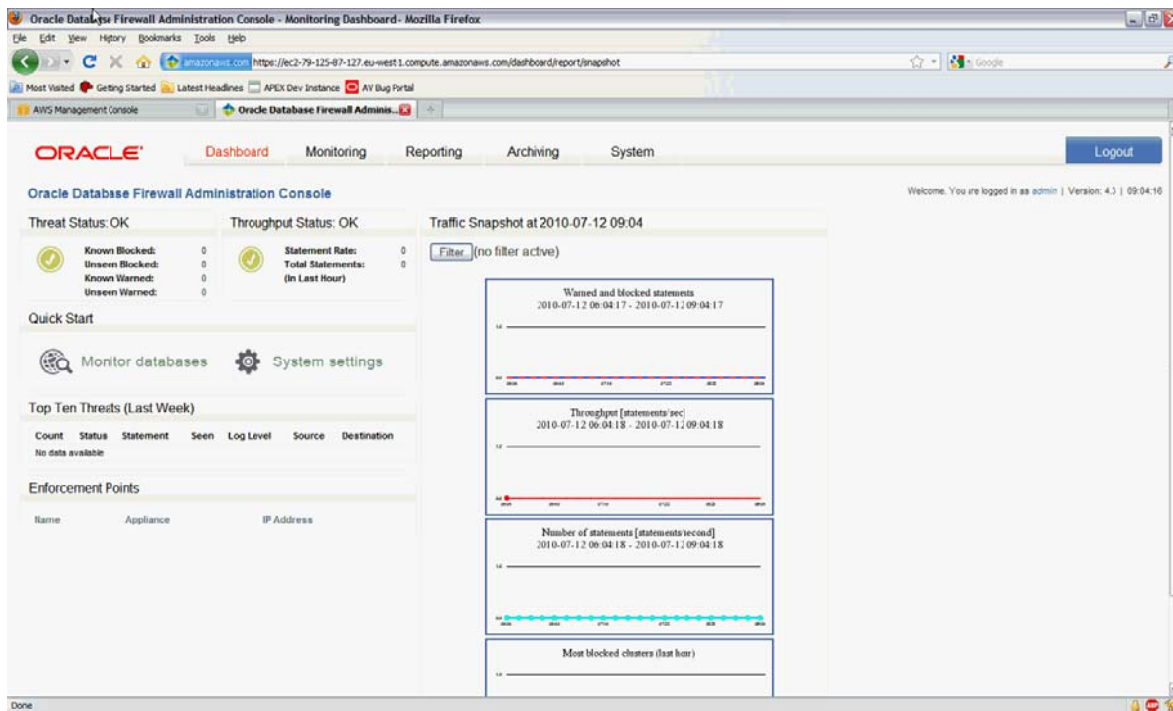
https://<your Oracle Database Firewall IP Address>



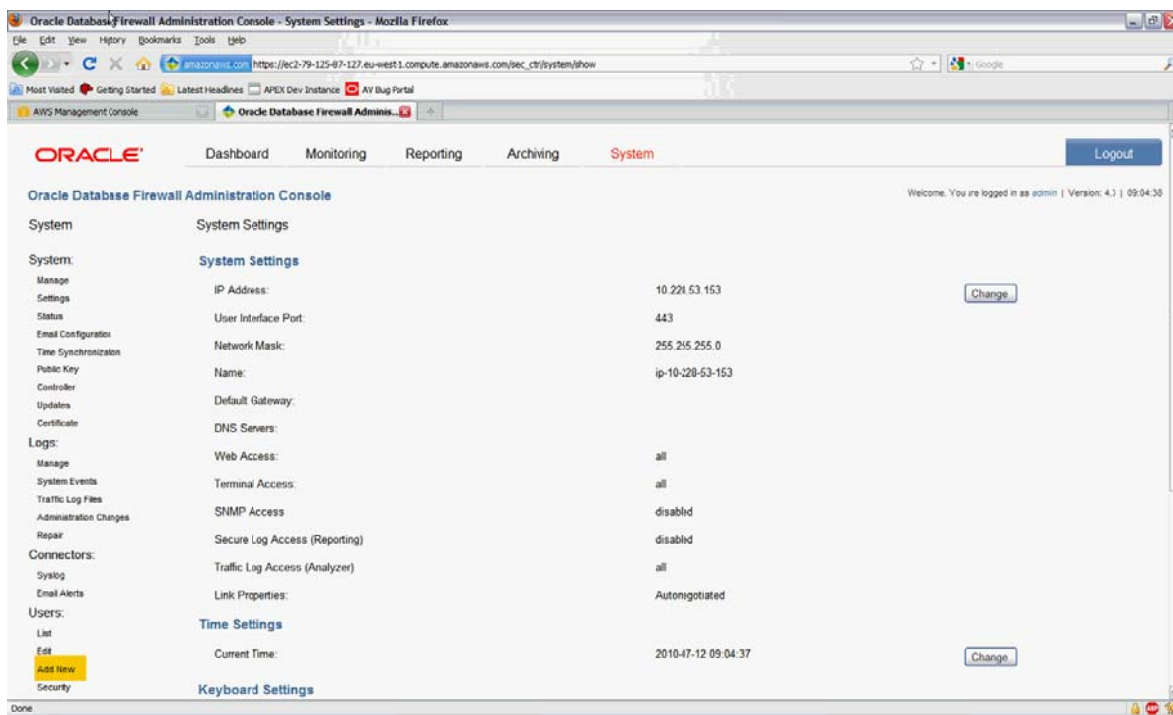
Login using the ID: admin and password: oracle (or the password you changed it to)



A. Create Yourself!



1. Click on System Tab, on left hand side under 'Users', click on ADD NEW



2. Substitute **YOUR** information in the example below and press Signup.



Add User

Username:

First Name:

Last Name:

Email:

Role:

☐ Suspended

Force Password Change on Next Login: ☐

Password: Password is: **Weak**

Confirm Password:

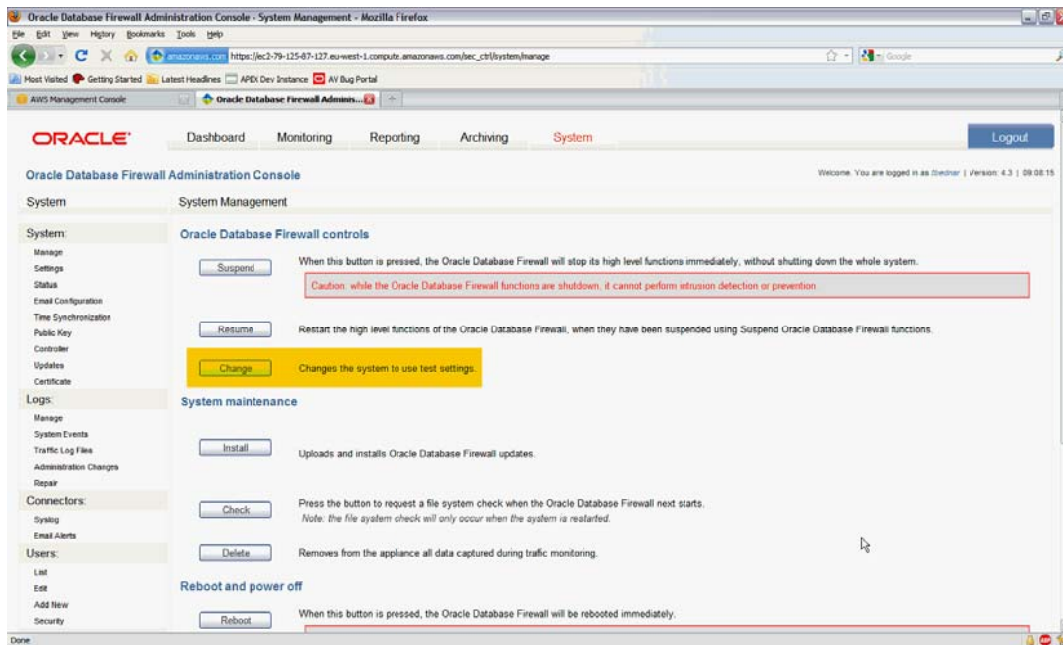
3. Logout and log back in with your credentials.

B. Set Test Mode on

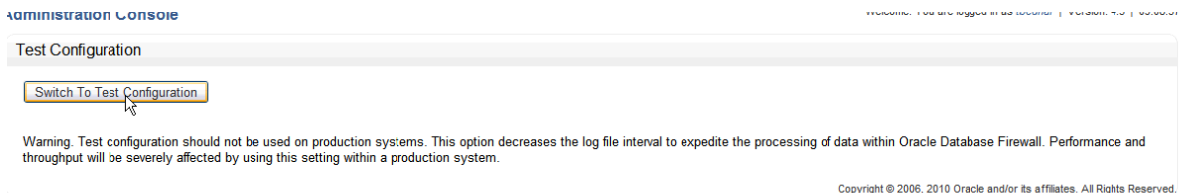
1. Click on System tab, then on Manage on the left under System



Oracle Database Firewall



Click on Switch to Test Configuration

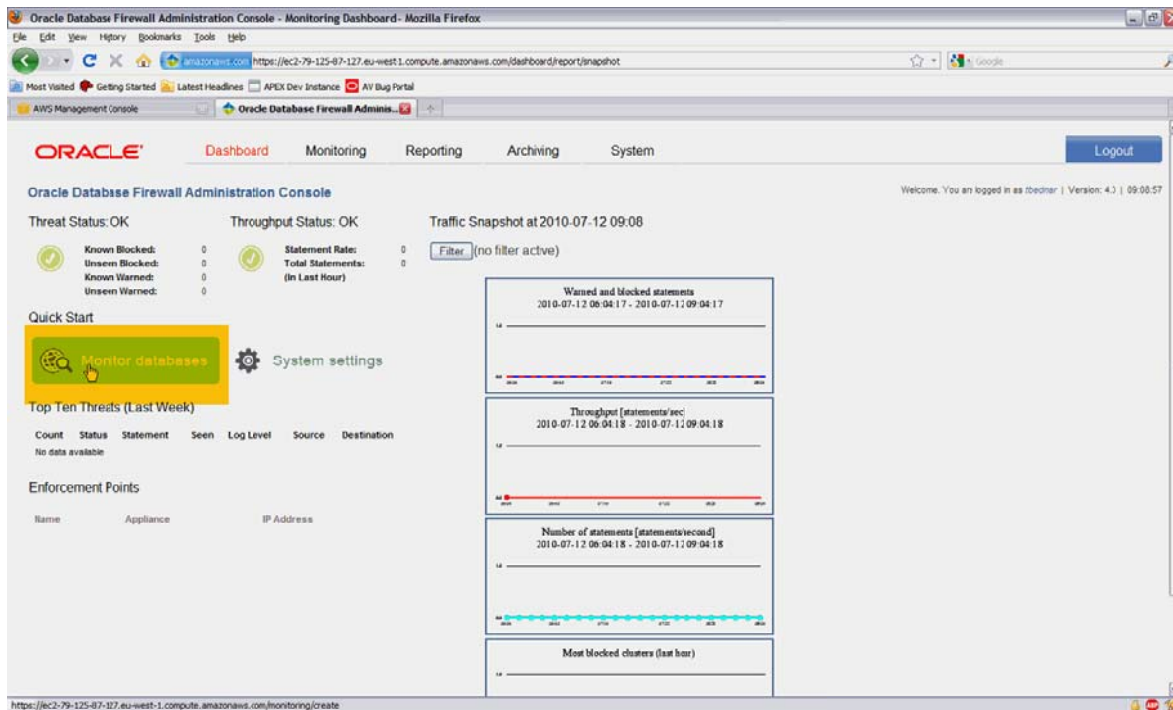


C. Configure an Enforcement Point

1. Click on Dashboard tab, Monitor Databases



Oracle Database Firewall



2. Enter the name of the Enforcement Point.

Name: DbsecEP

Enforcement Point Wizard: Step 1

1 ... 2 ... 3 ... 4

Specify enforcement point details:

Name:

Use a builtin enforcement point:

☒ Monitor locally (19 available)

3. Select br0 as the traffic source. Enter a name for the database that will be protected, select the database type. Enter the IP address the Oracle database security image and port 1521. Click 'Add', then Next.



Enforcement Point Wizard: Step 2

1 ... 2 ... 3 ... 4

The selected appliance supports monitoring on more than one interface, please select one or more interfaces to watch for database traffic:

☒ br0

☐ br1

Select a protected database:

Protected Database:

Specify the details of the protected databases you wish to monitor:

Name:

Database Type:

Address	Port	Resolved Address
<input type="text" value="192.168.56.41"/>	<input type="text" value="1521"/>	<input type="button" value="Add"/>

4. Select the log all policy and click on Next.

Enforcement Point Wizard: Step 3

1 ... 2 ... 3 ... 4

Specify the protected database to monitor:

Specify the monitoring mode and baseline to use for monitoring:

Monitoring Mode: ☒ Database Activity Monitoring (DAM)

Baseline:	Name	Description
<input checked="" type="radio"/>	logall.dna	Log all statements for offline analysis (Note: if this baseline is applied, it can use significant amounts of storage for the logged data)
<input type="radio"/>	logsample.dna	Log a sample of statements for offline analysis (Note: if this baseline is applied, although it will store less statements than logging all statements, it can still use significant amounts of storage for the logged data)
<input type="radio"/>	passall.dna	Pass all statements
<input type="radio"/>	unique.dna	Log examples of statements for offline analysis covering each distinct source of traffic (Note: if this baseline is applied, although it will store less statements than logging all statements, it can still use significant amounts of storage for the logged data)

5. Check the details are correct and click on Finish.



Enforcement Point Wizard: Step 4



When you press the finish button an enforcement point with the following details will be created:

Name: OraclelocalEP

Database Type: Oracle

Traffic Sources: br0

Protected Database Name: DBSec-Oracle

Protected Database Addresses:

Address	Port
192.168.56.41	1521

Monitoring Mode: DAM

Baseline: logall.dna

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6. On the Enforcement Point you have just created, click on Settings to set additional options.

Enforcement Points

Enforcement point created

Name	Appliances	Baseline	Mode	Protected Database	Advanced
OracleCloudEnforcementPoint	Local	logall.dna	DAM	DBSec-Oracle	Manage Status Settings Advanced

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7. Select Activate Database Response Monitoring and Full error message annotation. Switch the Enforcement Point into blocking mode by selecting DPE.



Oracle Database Firewall

Settings for Enforcement Point: "OracleCloudEnforcementPoint"

Monitoring Settings

Protected Database: Oracle - DESec-Oracle

Traffic Sources: ☒ eth0

Database Response: ☒ **Activate Database Response Monitoring**
☒ Full error message annotation. Enabling this option will log the error message associated with the error code.

Database Interrogation: ☐ Activate Database Interrogation

Remote Monitor: ☐ Activate Remote Monitor

Local Monitor: ☐ Activate Local Monitor

SPA: ☐ Activate Stored Procedure Auditing

URA: ☐ Activate User Role Auditing

Appliance Mode: ☒ **Database Policy Enforcement (DPE)**
☐ Database Activity Monitoring (DAM)

Training Mode: ☐

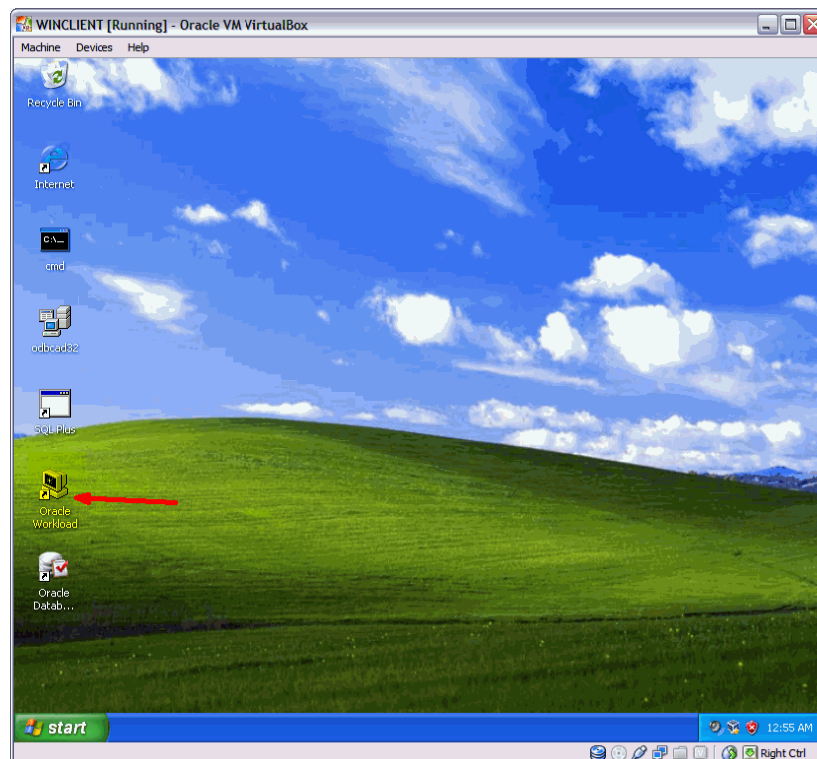
Log Sample Frequency [1 in N]:

Baseline:

Oracle	Description
<input checked="" type="radio"/> logall.dna	Log all statements for offline analysis (Note: if this baseline is applied, it can use significant amounts of storage for the logged data)
<input type="radio"/> logsample.dna	Log a sample of statements for offline analysis (Note: if this baseline is applied, although it will store less statements than logging all statements, it can still use significant amounts of storage for the logged data)
<input type="radio"/> passall.dna	Pass all statements
<input type="radio"/> unique.dna	Log examples of statements for offline analysis covering each distinct source of traffic (Note: if this baseline is applied, although it will store less

Click on Save.

8. In the WindowsClient, Run Oracle Workload.





9. Go to Database Firewall Dashboard to see if any statements have been collected.

