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НОВЫЙ ПРОДУКТ
IXIA DEVELOPER

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РЕАЛЬНОСТЬ КОМПАНИИ-РАЗРАБОТЧИКА

Различные модели разработки – одинаковые проблемы

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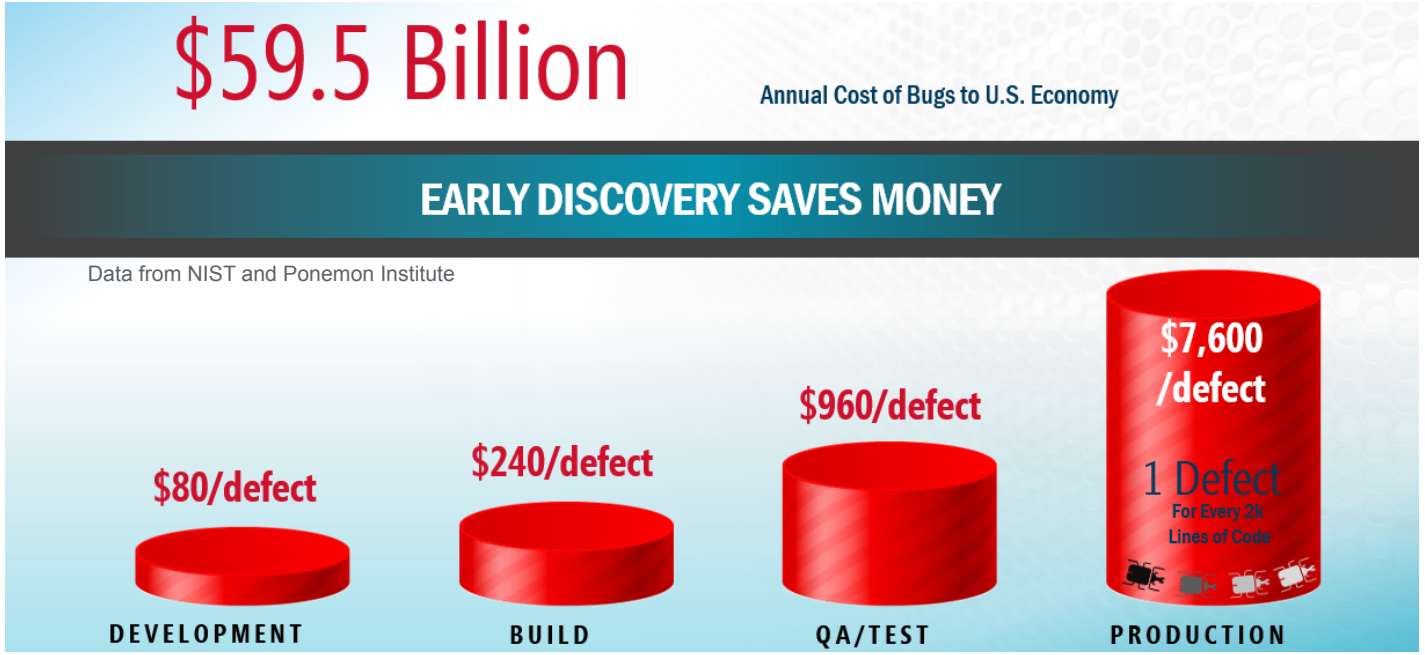
РЕЗУЛЬТАТ – ПЛОХАЯ ЭФФЕКТИВНОСТЬ

- Бюджет найден поздно, а поздно найденные баги очень дорого исправлять.
- Баги обычно сложно анализировать инструментами, ориентированными на QA.



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ЧТО, ЕСЛИ БЫ МЫ СМОГЛИ…

- *увеличить эффективность?*
  - Легкое решение, доступное всем.
  - Находить баги раньше.
  - Расследовать проблемы быстрее.
  - Радоваться богатым возможностям генератора трафика.
  - Никакого дорогого железа.
- *дать ощущение разработчикам, что они часть сообщества?*
  - Прямой канал для отзывов.
  - Прозрачный roadmap, на который вы можете повлиять.
  - Внесите свой вклад!

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НО ЕСТЬ ЖЕ БЕСПЛАТНЫЕ ИНСТРУМЕНТЫ…

Здорово, если они работают, но…

- Ограниченная поддержка или ее отсутствие.
- Ограниченная функциональность.
- Редкие обновления.
- Часто требуется пересобрать и адаптировать.

```
root@bt: /pentest/sniffers/tcpreplay
File  Edit  View  Terminal  Help
root@bt:/pentest/sniffers/tcpreplay# ./tcpreplay --intf1=eth0 test.pcap
sending out eth0
processing file: test.pcap
Actual: 263 packets (196705 bytes) sent in 7.72 seconds.              Rated: 2
5479.9 bps, 0.19 Mbps, 34.07 pps
Statistics for network device: eth0
        Attempted packets:         263
        Successful packets:        263
        Failed packets:            0
        Retried packets (ENOBUFS): 0
        Retried packets (EAGAIN):  0
root@bt:/pentest/sniffers/tcpreplay#
```

```
C:\Windows\System32\cmd.exe - server.bat
C:\Iperf>iperf -l 8942 -p 5001 -w 1048576 -M 8942 -s -i 5
------------------------------------------------------------
Server listening on TCP port 5001
TCP window size: 1.00 MByte
------------------------------------------------------------
[1868] local 192.168.2.1 port 5001 connected with 192.168.2.20 port 53925
[ ID] Interval       Transfer     Bandwidth
[1868]  0.0- 5.0 sec   376 MBytes   631 Mbits/sec
[1868]  5.0-10.0 sec   568 MBytes   953 Mbits/sec
[1868] 10.0-15.0 sec   579 MBytes   972 Mbits/sec
[1868] 15.0-20.0 sec   582 MBytes   977 Mbits/sec
[1868] 20.0-25.0 sec   581 MBytes   976 Mbits/sec
[1868] 25.0-30.0 sec   576 MBytes   967 Mbits/sec
[1868] 30.0-35.0 sec   585 MBytes   981 Mbits/sec
[1868] 35.0-40.0 sec   582 MBytes   976 Mbits/sec
[1868] 40.0-45.0 sec   579 MBytes   972 Mbits/sec
[1868] 45.0-50.0 sec   583 MBytes   979 Mbits/sec
[1868] 50.0-55.0 sec   584 MBytes   980 Mbits/sec
[1868] 55.0-60.0 sec   583 MBytes   978 Mbits/sec
[1868] 60.0-65.0 sec   467 MBytes   783 Mbits/sec
[1868] 65.0-70.0 sec   585 MBytes   981 Mbits/sec
[1868] 70.0-75.0 sec   589 MBytes   988 Mbits/sec
[1868] 75.0-80.0 sec   582 MBytes   977 Mbits/sec
```

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ПРЕДСТАВЛЯЕМ IXIA DEVELOPER!

Легкий тестовый инструмент разработчика, который станет незаменимой частью жизненного цикла.

- Генерация реалистичного трафика приложений с подмешиванием атак.
- Специальные функции для разработчиков: отладчик, breakpoints, захват.
- Именная лицензия.
- Быстрый цикл релизов.
- Встроенный механизм обратной связи.
- Классный HTML UI и классический CLI.
- Расширяется плагинами.

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РАЗВОРАЧИВАНИЕ IXIA DEVELOPER

- Легкое виртуальное решение:
  - одна VM (<1GB),
  - не надо разворачивать порты,
  - вписывается в типовое окружение разработчика.
- Быстро разворачивается:
  - Менее 2 минут
- Online-авторизация.

VMWare ESX

VMware Fusion

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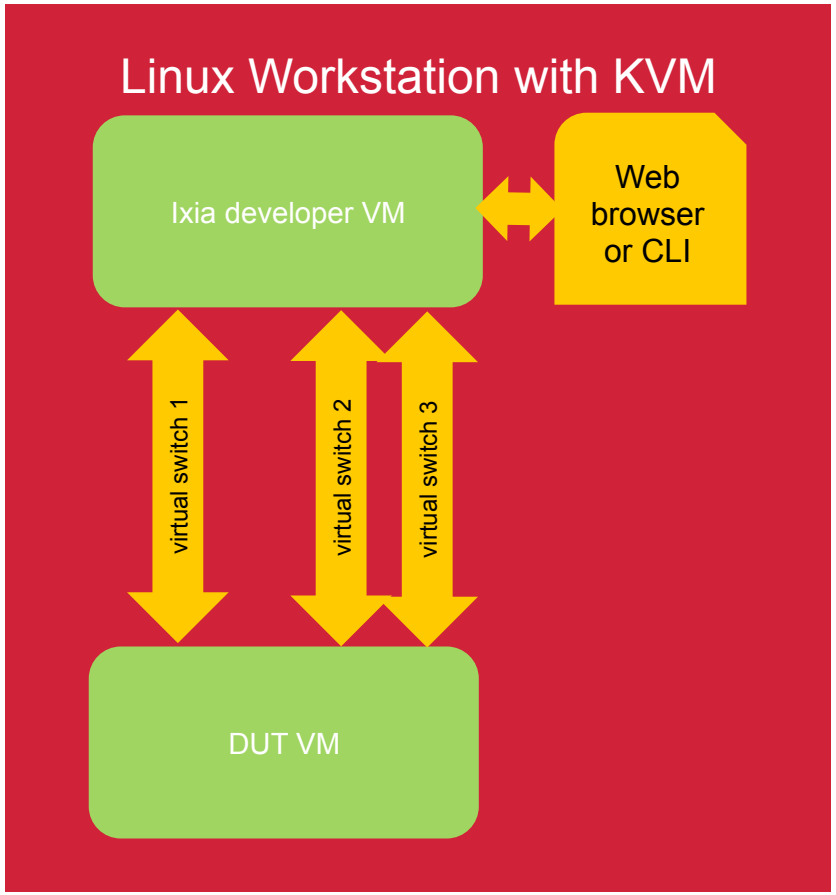
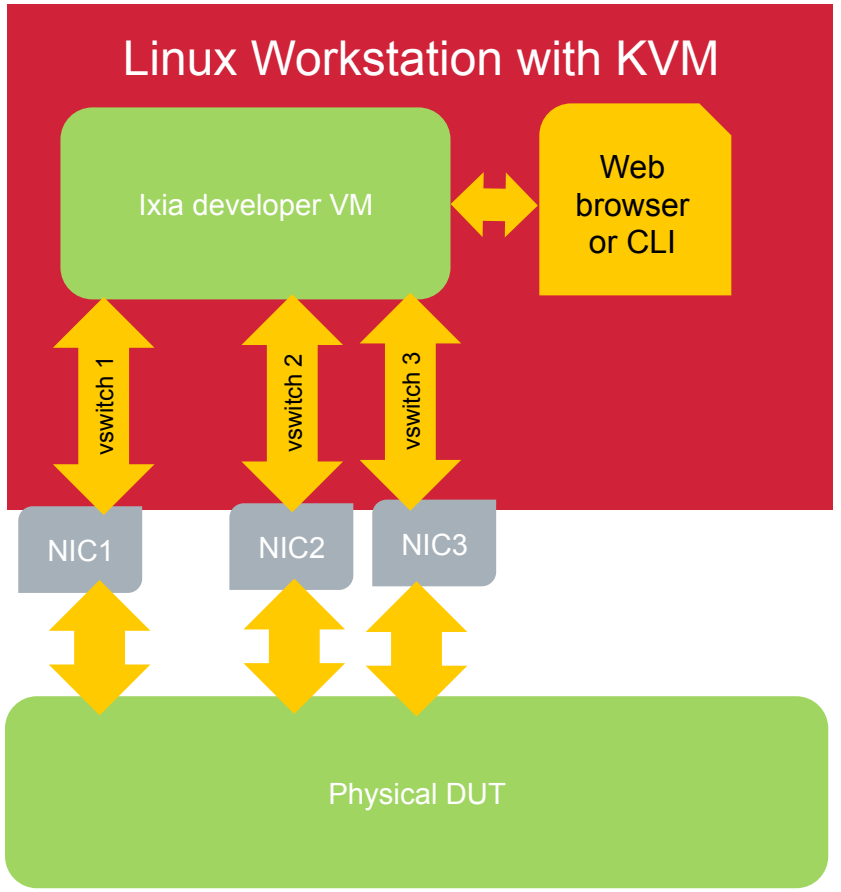
СХЕМА ВЗАИМОДЕЙСТВИЯ



Тест внутри виртуальной среды



Тест физического устройства

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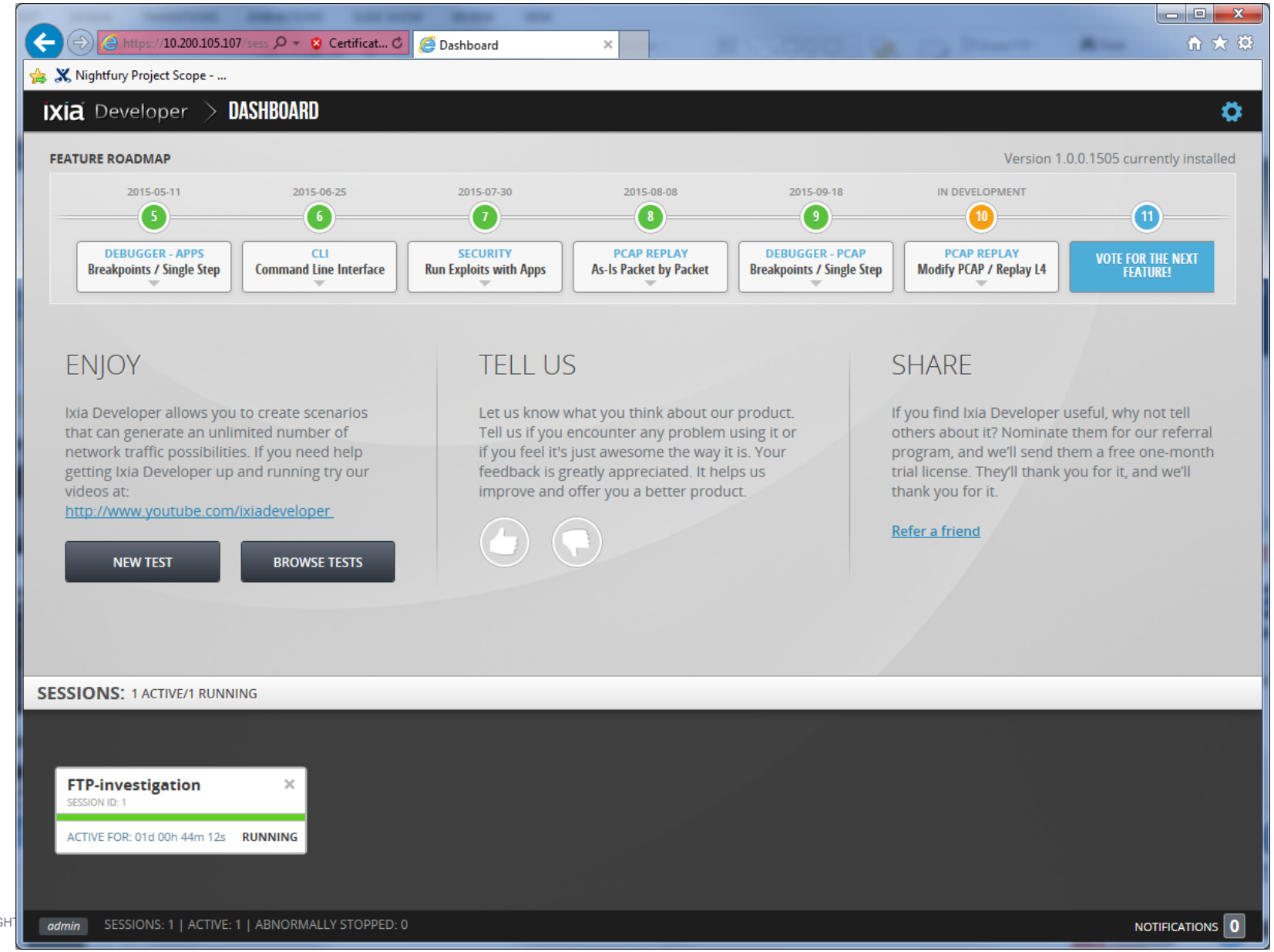
ВЗАИМОДЕЙСТВИЕ С СООБЩЕСТВОМ



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ПРОСТО!

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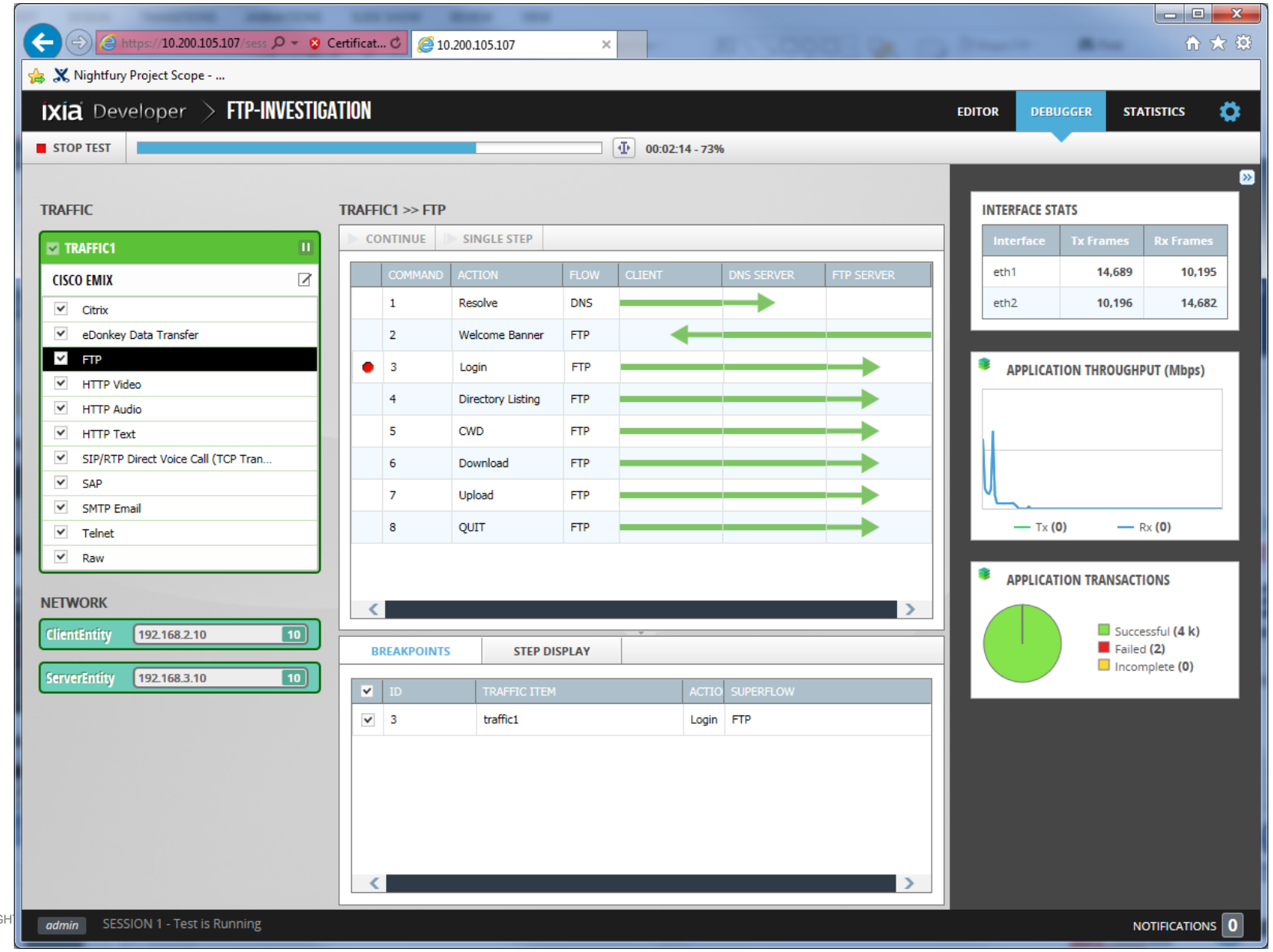
ОТЛАДЧИК И BREAKPOINTS



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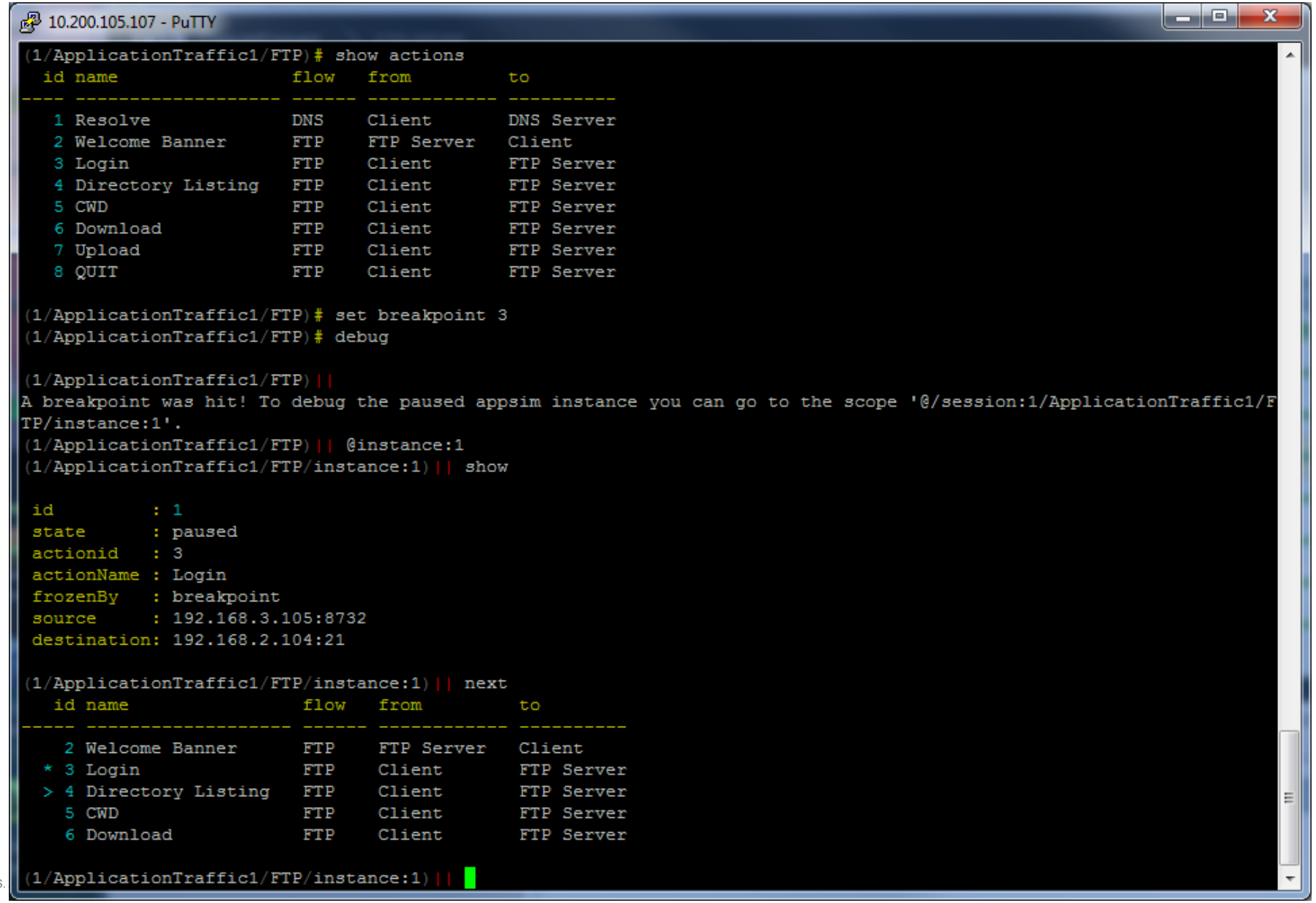
ИНТУИТИВНЫЙ CLI



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ЕДИНЫЙ ЦЕНТР ИССЛЕДОВАНИЙ

ATI Research Center

Security and DPI Testing

BreakingPoint

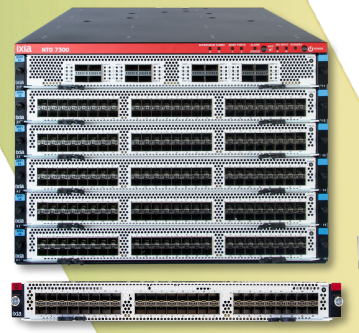
Perfect Storm

Network Assessment

IxLoad

Ixia Developer

Application Visibility



Application & Threat Intelligence Processors

Inline Security

ThreatARMOR™

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И ЭТО ТОЛЬКО НАЧАЛО...

Ежемесячные обновления.

- Условные breakpoints.
- Отладчик.
- Произвольные статистики.
- …

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ОПЦИИ И ЦЕНЫ

Ixia Developer 1.0 – предварительный прайс (US)

Виртуальное решение.

$1,495 в год на пользователя.

Включен 1Гбит/с.

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IXIA DEVELOPER

КАК ЭТО РАБОТАЕТ

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Welcome to your Ixia Developer account! - Message (HTML)

FILE MESSAGE

Ignore Junk Delete | Reply Reply All Forward | Ixia Wiki To Manager Team Email | Move | Assign Policy Mark Unread Categorize Follow Up | Translate | Zoom

Delete Respond Quick Steps Move Tags Editing Zoom

Tue 1/5/2016 9:28 AM

ixiadeveloper

Welcome to your Ixia Developer account!

To

You can now take advantage of the new Ixia Developer, a new virtual based product built by developers for developers. It allows users to generate and replay application traffic along with malicious traffic.
Reduce costs, increase agility and improve efficiency by performing your development testing directly in your personal virtual environment, without waiting for a shared physical test setup.

- Investigate issues faster using our network traffic debugger, breakpoints and built-in traffic capture
- Enjoy rich and realistic application library - more than 290 applications included
- Ensure network security resiliency - more than 30,000 security strikes included
- Use our simple HTML5 interface, or classic command line interface
- Automate test execution and results analysis with REST API
- Access a continuous stream of application and security updates

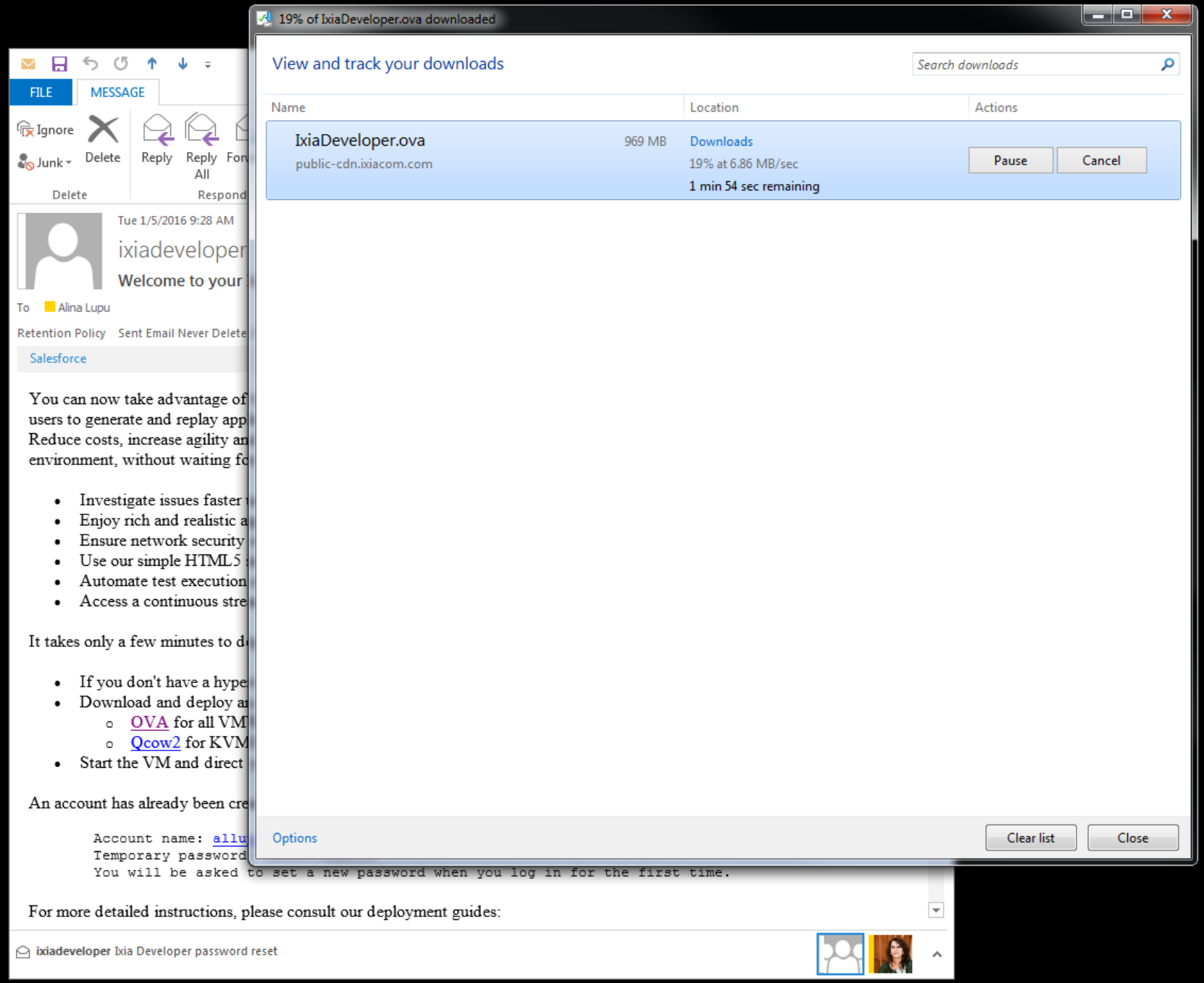
It takes only a few minutes to deploy:

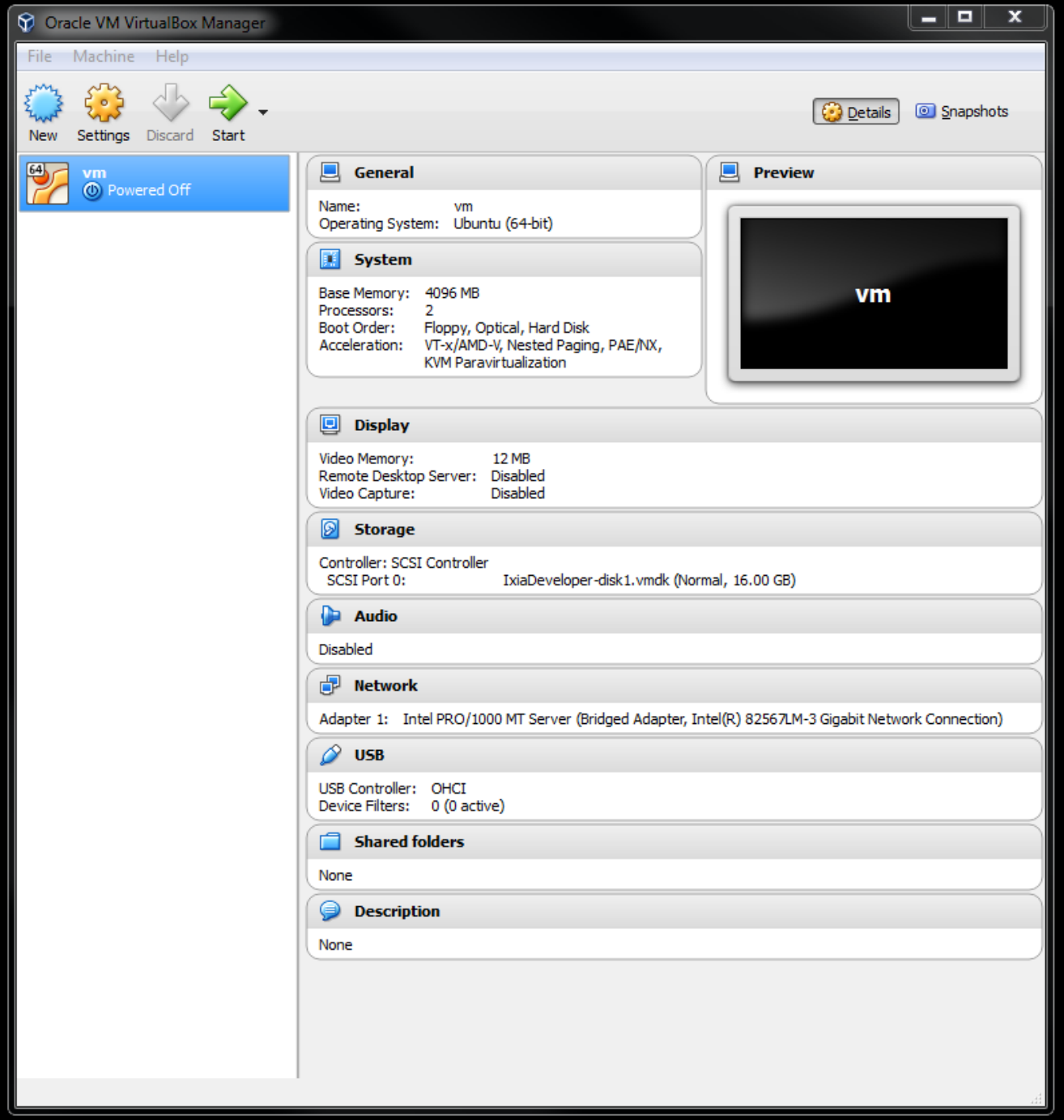
- If you don't have a hypervisor, download and install Virtual Box or enable Qemu/KVM
- Download and deploy an image for your virtual platform
  - OVA for all VMWare hypervisors and Oracle VM Virtual Box
  - Qcow2 for KVM/Qemu
- Start the VM and direct your web browser to the IP address of the VM: https://<ipaddr>/

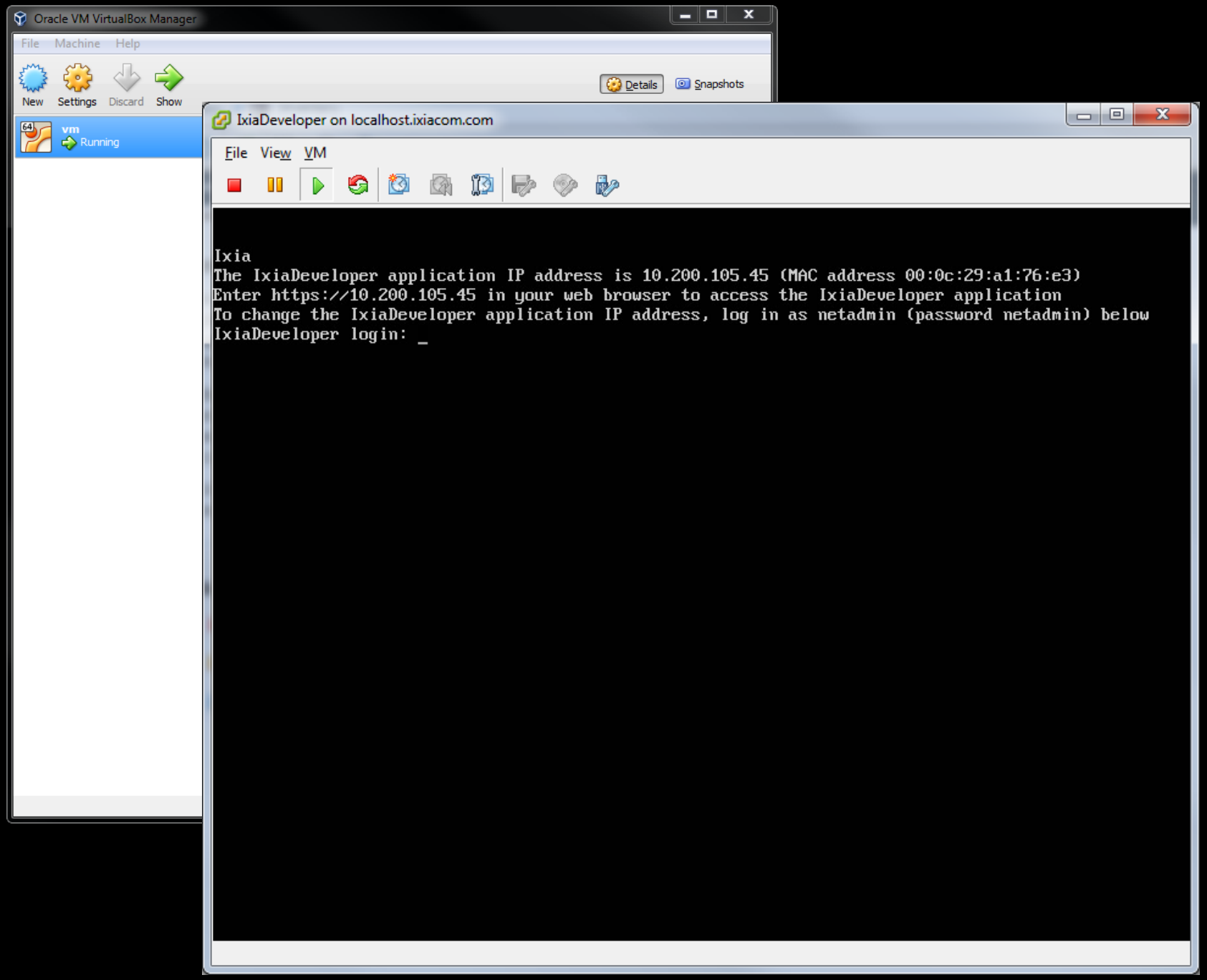
An account has already been created for you. Please use the following credentials to log in:

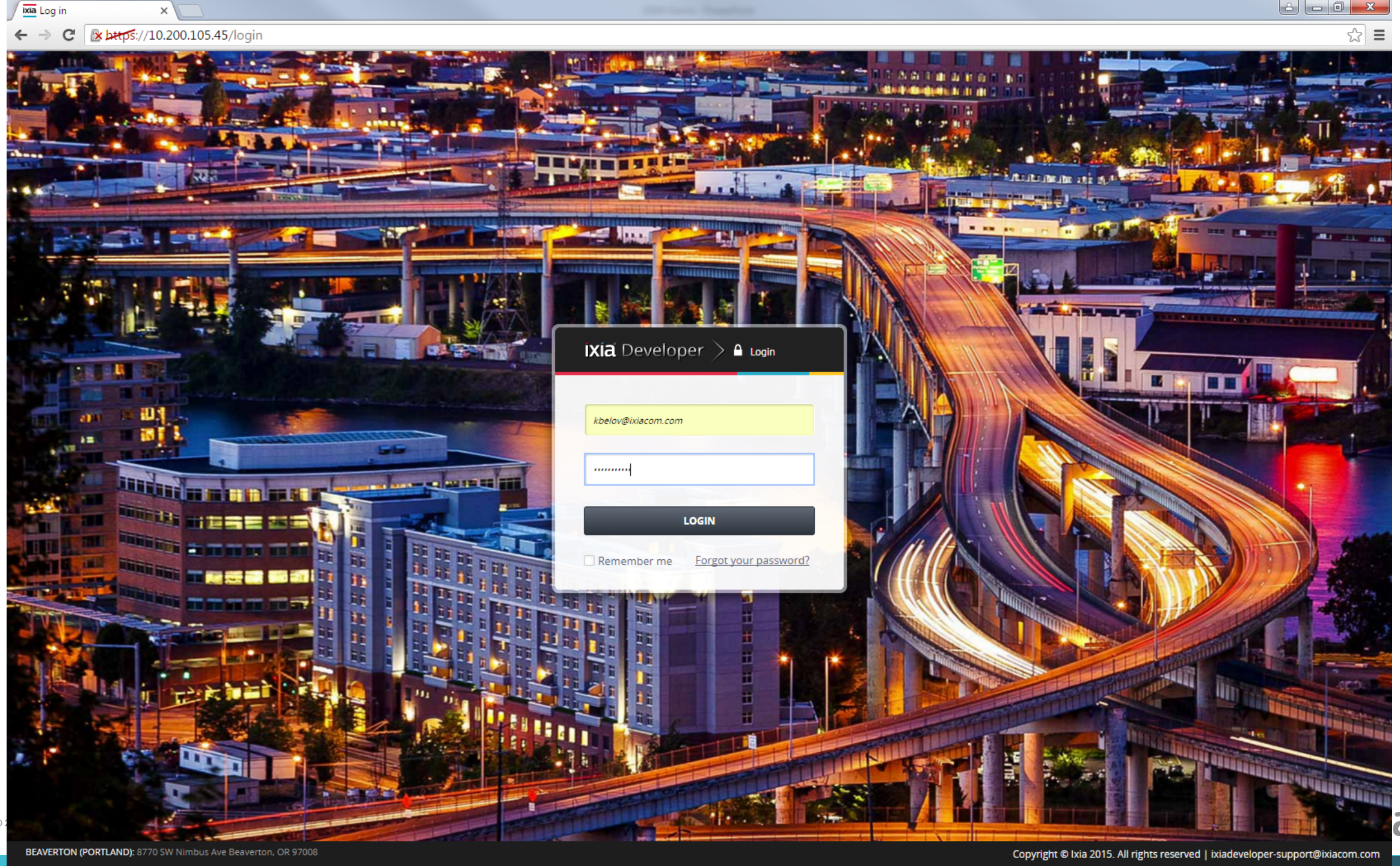
```
Account name: allupu@ixiacom.com
Temporary password: Ix1a$08BBEC39
You will be asked to set a new password when you log in for the first time.
```

For more detailed instructions, please consult our deployment guides:


19% of IxiaDeveloper.ova downloaded
View and track your downloads
Search downloads
Name
Location
Actions
IxiaDeveloper.ova
969 MB
public-cdn.ixiacom.com
Downloads
19% at 6.86 MB/sec
1 min 54 sec remaining
Pause
Cancel
Options
Clear list
Close
FILE
MESSAGE
Ignore
Junk
Delete
Reply
Reply All
Delete
Tue 1/5/2016 9:28 AM
Welcome to your
To
Alina Lupu
Retention Policy
Sent Email Never Delete
Salesforce
You can now take advantage of
users to generate and replay app
Reduce costs, increase agility an
environment, without waiting fo
Investigate issues faster
Enjoy rich and realistic a
Ensure network security
Use our simple HTML5
Automate test execution
Access a continuous stre
It takes only a few minutes to d
If you don't have a hype
Download and deploy a
OVA for all VM
Qcow2 for KVM
Start the VM and direct
An account has already been cre
Account name: allu
Temporary password
You will be asked to set a new password when you log in for the first time.
For more detailed instructions, please consult our deployment guides:
ixiadeveloper Ixia Developer password reset


Oracle VM VirtualBox Manager
File
Machine
Help
New
Settings
Discard
Start
Details
Snapshots
vm
Powered Off
General
Name: vm
Operating System: Ubuntu (64-bit)
System
Base Memory: 4096 MB
Processors: 2
Boot Order: Floppy, Optical, Hard Disk
Acceleration: VT-x/AMD-V, Nested Paging, PAE/NX, KVM Paravirtualization
Preview
vm
Display
Video Memory: 12 MB
Remote Desktop Server: Disabled
Video Capture: Disabled
Storage
Controller: SCSI Controller
SCSI Port 0: IxiaDeveloper-disk1.vmdk (Normal, 16.00 GB)
Audio
Disabled
Network
Adapter 1: Intel PRO/1000 MT Server (Bridged Adapter, Intel(R) 82567LM-3 Gigabit Network Connection)
USB
USB Controller: OHCI
Device Filters: 0 (0 active)
Shared folders
None
Description
None


Oracle VM VirtualBox Manager
File Machine Help
New Settings Discard Show
Details Snapshots
vm
Running
IxiaDeveloper on localhost.ixiacom.com
File View VM
Ixia
The IxiaDeveloper application IP address is 10.200.105.45 (MAC address 00:0c:29:a1:76:e3)
Enter https://10.200.105.45 in your web browser to access the IxiaDeveloper application
To change the IxiaDeveloper application IP address, log in as netadmin (password netadmin) below
IxiaDeveloper login: _


Log in
https://10.200.105.45/login
ixia Developer
Login
kbelov@ixiacom.com
LOGIN
Remember me
Forgot your password?
BEAVERTON (PORTLAND): 8770 SW Nimbus Ave Beaverton, OR 97008
Copyright © Ixia 2015. All rights reserved | ixiadeveloper-support@ixiacom.com

Dashboard

https://10.200.105.45/sessions

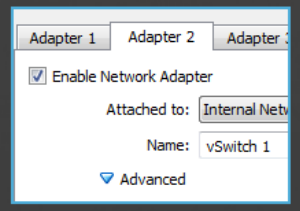
ixia Developer > Dashboard

Configure network in VirtualBox

- KVM / QEMU
- VMware ESXi
- VMware Fusion
- VMware Player
- VMware Workstation
- Other Hypervisors

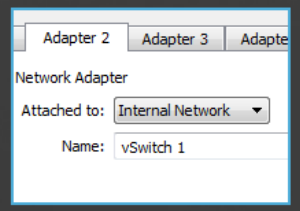
You currently don't have any external network interfaces. You can still ru ollow the steps below to connect this VM to your device. For a detailed wa .

INLINE DEVICE | PASSIVE DEVICE



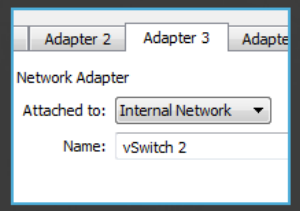
Step 1

First, shut down your VM, but don't close this page as you'll not be able to reload it while the VM is down.
You will need to enable Adapter 2 and Adapter 3 - they will be used as test interfaces. Adapter 1 will serve as the management interface, connected to the Internet.



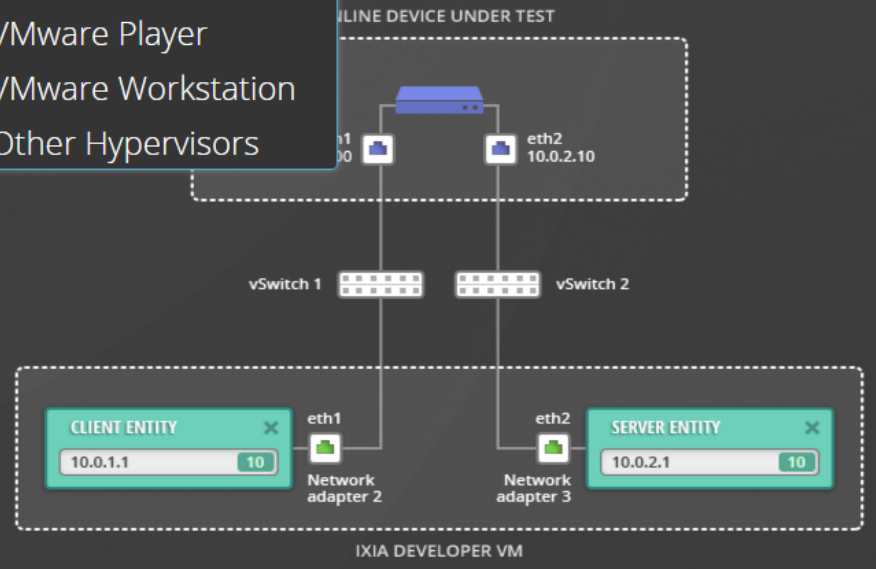
Step 2

After enabling it, attach Adapter 2 to an Internal Network named 'vSwitch 1'. To connect it to an Adapter on your device, make sure that the Internal Network Name matches.
Also make sure to set Promiscuous Mode > 'Allow All'.

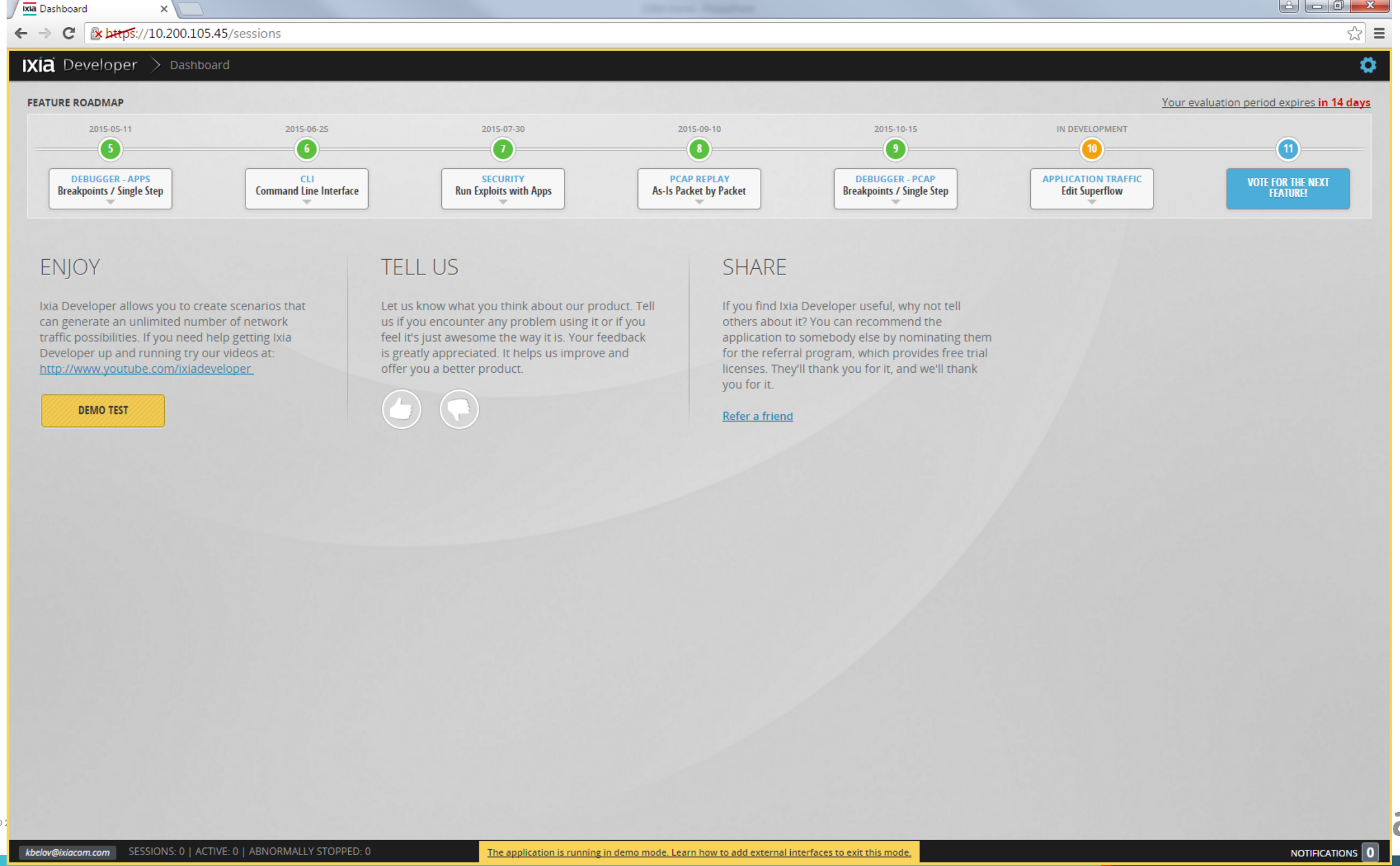


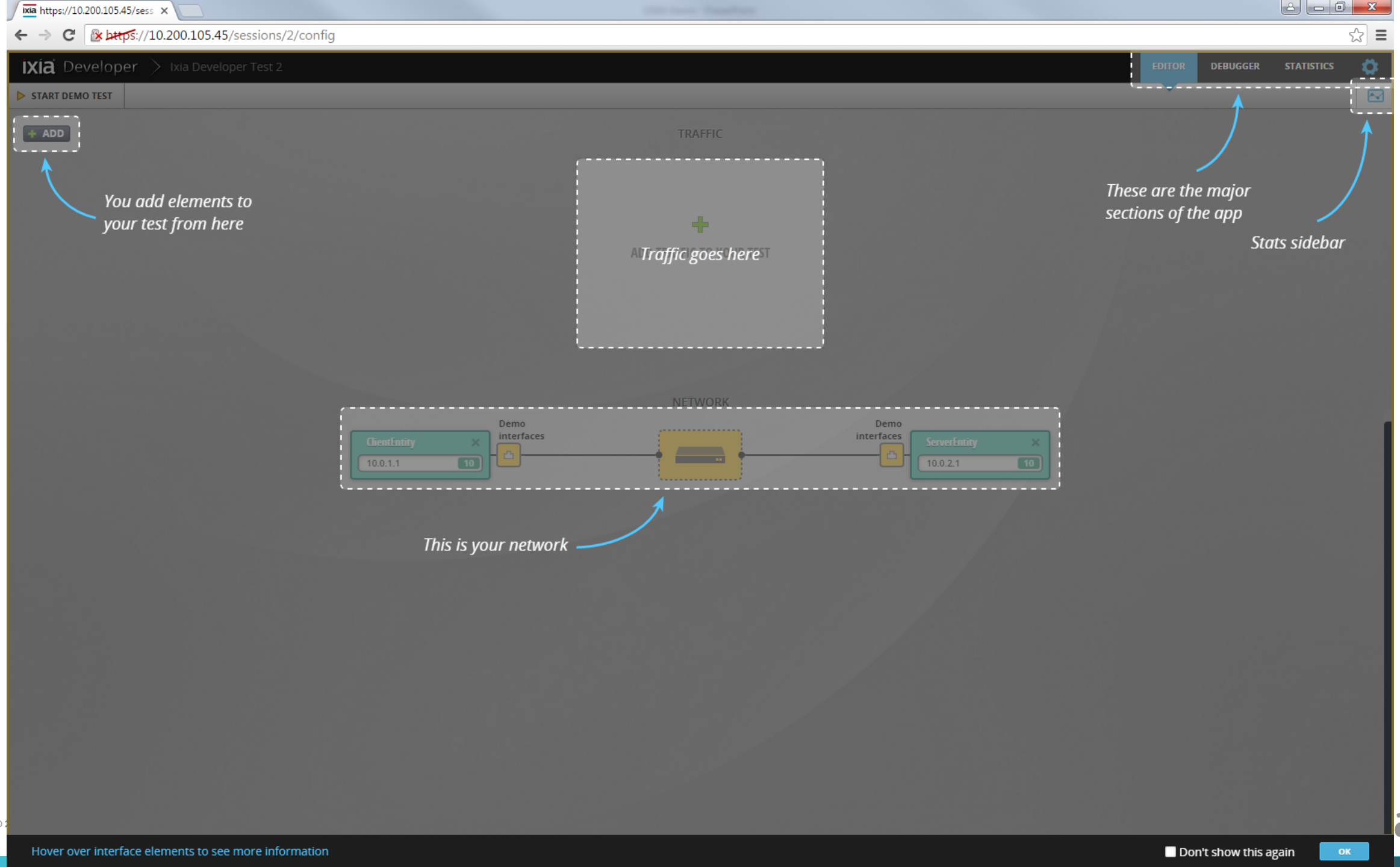
Step 3

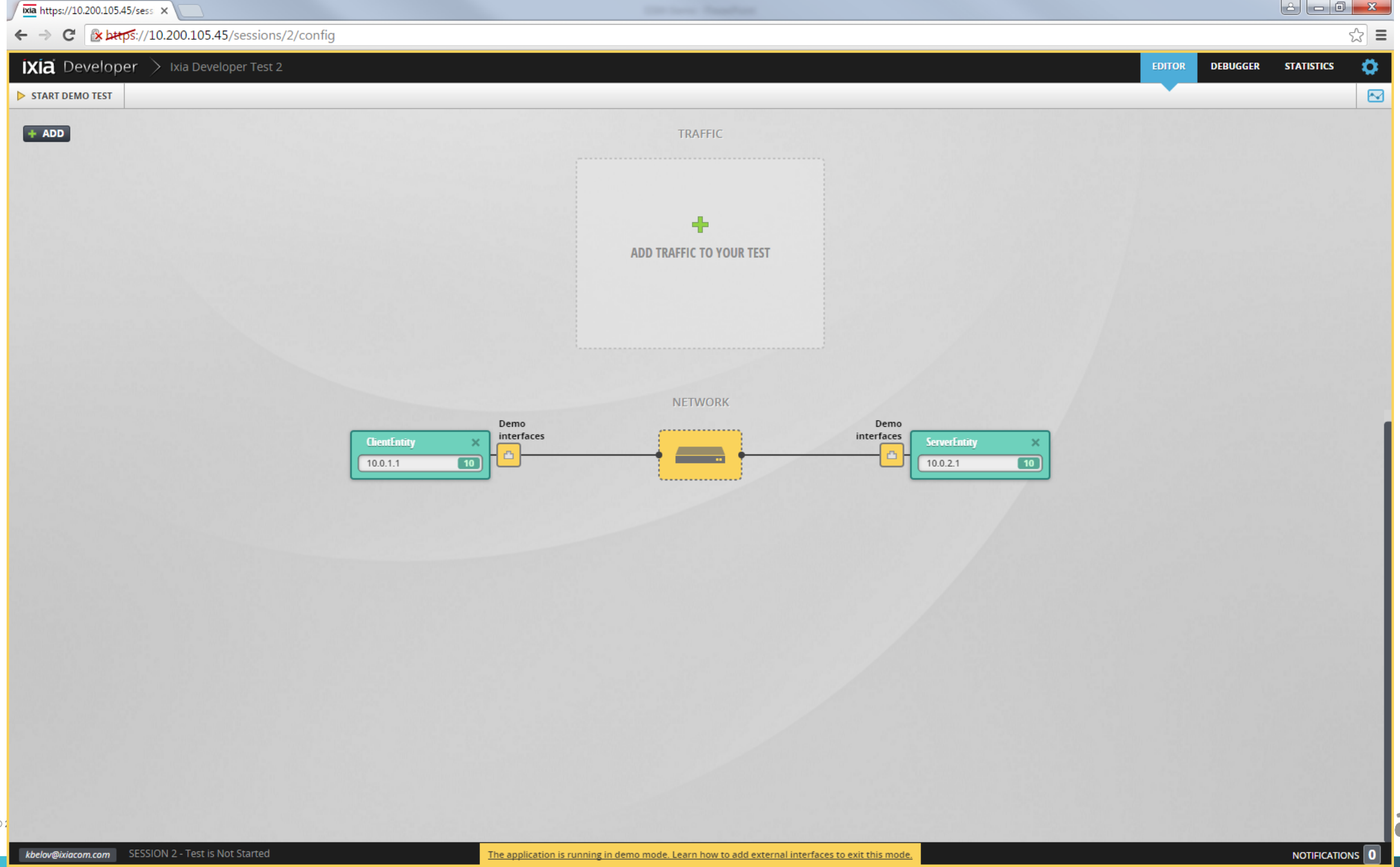
Perform the same steps for Adapter 3. To pass traffic through your device, make sure to connect Adapter 3 to a different Internal Network, one also connected to a different DUT interface (you can label it 'vSwitch 2').
Finally, start your VM back up.

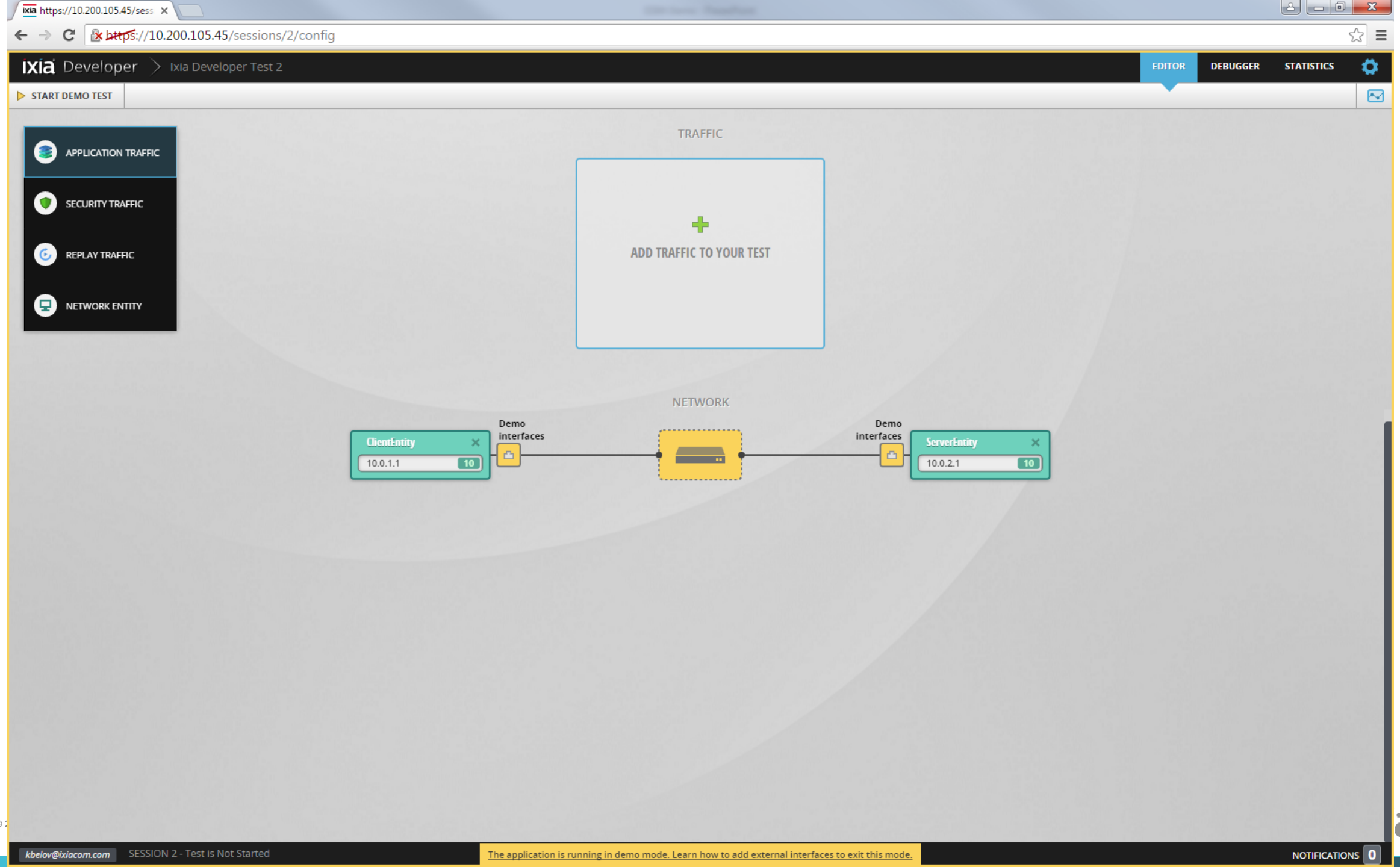


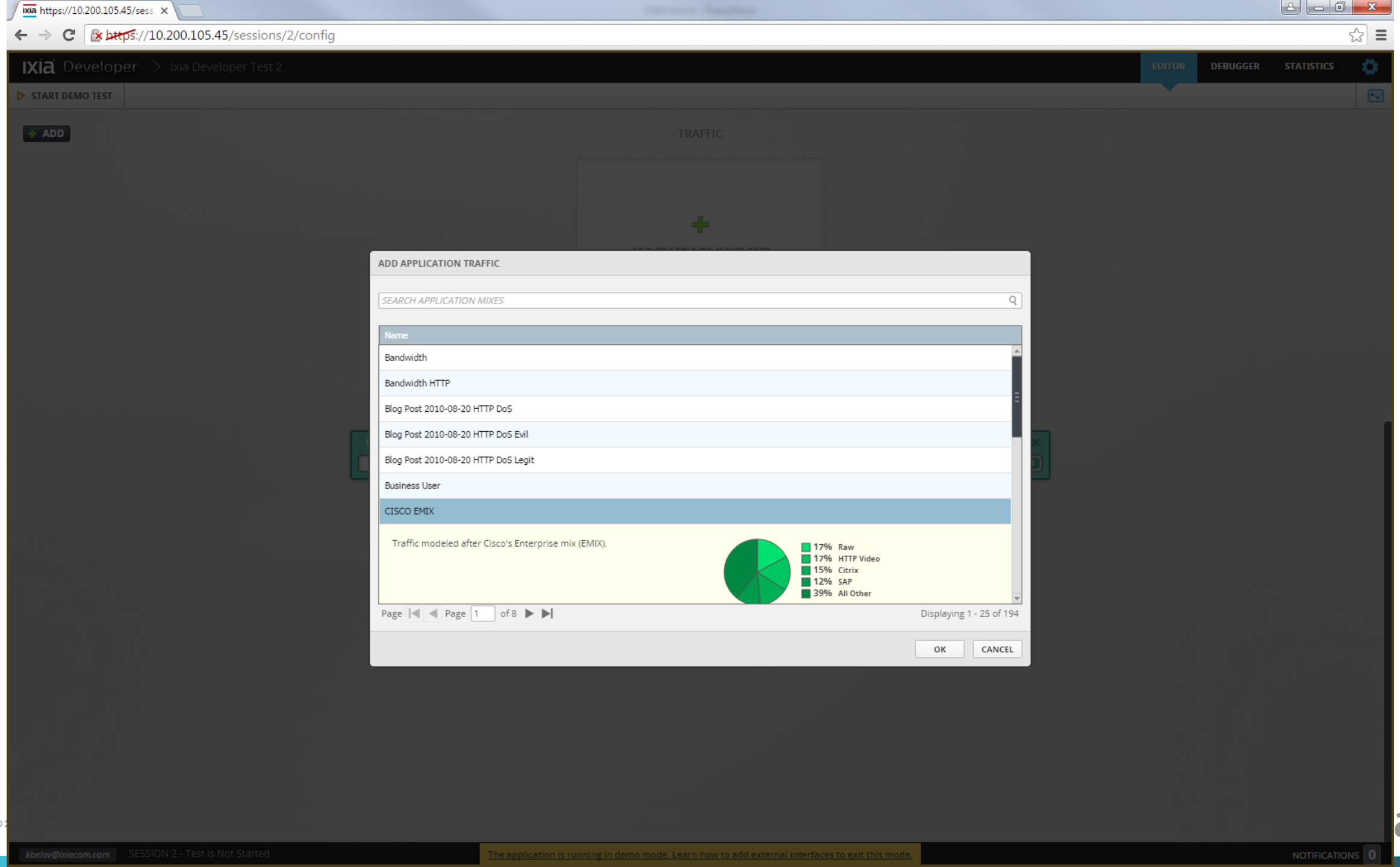
CLOSE


Dashboard
https://10.200.105.45/sessions
ixia Developer
Dashboard
FEATURE ROADMAP
Your evaluation period expires in 14 days
2015-05-11
5
DEBUGGER - APPS
Breakpoints / Single Step
2015-06-25
6
CLI
Command Line Interface
2015-07-30
7
SECURITY
Run Exploits with Apps
2015-09-10
8
PCAP REPLAY
As-Is Packet by Packet
2015-10-15
9
DEBUGGER - PCAP
Breakpoints / Single Step
IN DEVELOPMENT
10
APPLICATION TRAFFIC
Edit Superflow
11
VOTE FOR THE NEXT FEATURE!
ENJOY
Ixia Developer allows you to create scenarios that can generate an unlimited number of network traffic possibilities. If you need help getting Ixia Developer up and running try our videos at:
http://www.youtube.com/ixiadeveloper
DEMO TEST
TELL US
Let us know what you think about our product. Tell us if you encounter any problem using it or if you feel it's just awesome the way it is. Your feedback is greatly appreciated. It helps us improve and offer you a better product.
SHARE
If you find Ixia Developer useful, why not tell others about it? You can recommend the application to somebody else by nominating them for the referral program, which provides free trial licenses. They'll thank you for it, and we'll thank you for it.
Refer a friend
kbelov@ixiacom.com
SESSIONS: 0 | ACTIVE: 0 | ABNORMALLY STOPPED: 0
The application is running in demo mode. Learn how to add external interfaces to exit this mode.
NOTIFICATIONS 0


https://10.200.105.45/sess
https://10.200.105.45/sessions/2/config
ixia Developer
Ixia Developer Test 2
EDITOR
DEBUGGER
STATISTICS
START DEMO TEST
ADD
You add elements to your test from here
TRAFFIC
Traffic goes here
These are the major sections of the app
Stats sidebar
NETWORK
ClientEntity
10.0.1.1
10
Demo interfaces
Demo interfaces
ServerEntity
10.0.2.1
10
This is your network
Hover over interface elements to see more information
Don't show this again
OK


https://10.200.105.45/sess
https://10.200.105.45/sessions/2/config
ixia Developer
Ixia Developer Test 2
EDITOR
DEBUGGER
STATISTICS
START DEMO TEST
ADD
TRAFFIC
ADD TRAFFIC TO YOUR TEST
NETWORK
Demo interfaces
ClientEntity
10.0.1.1
10
Demo interfaces
ServerEntity
10.0.2.1
10
kbelov@ixiacom.com
SESSION 2 - Test is Not Started
The application is running in demo mode. Learn how to add external interfaces to exit this mode.
NOTIFICATIONS
0


https://10.200.105.45/sess
https://10.200.105.45/sessions/2/config
ixia Developer
Ixia Developer Test 2
EDITOR
DEBUGGER
STATISTICS
START DEMO TEST
APPLICATION TRAFFIC
SECURITY TRAFFIC
REPLAY TRAFFIC
NETWORK ENTITY
TRAFFIC
ADD TRAFFIC TO YOUR TEST
NETWORK
Demo interfaces
ClientEntity
10.0.1.1
10
Demo interfaces
ServerEntity
10.0.2.1
10
kbelov@ixiacom.com
SESSION 2 - Test is Not Started
The application is running in demo mode. Learn how to add external interfaces to exit this mode.
NOTIFICATIONS
0


https://10.200.105.45/sess
https://10.200.105.45/sessions/2/config
ixia Developer
Ixia Developer Test 2
EDITOR
DEBUGGER
STATISTICS
START DEMO TEST
ADD
TRAFFIC
ADD APPLICATION TRAFFIC
SEARCH APPLICATION MIXES
Name
Bandwidth
Bandwidth HTTP
Blog Post 2010-08-20 HTTP DoS
Blog Post 2010-08-20 HTTP DoS Evil
Blog Post 2010-08-20 HTTP DoS Legit
Business User
CISCO EMIX
Traffic modeled after Cisco's Enterprise mix (EMIX).
17% Raw
17% HTTP Video
15% Citrix
12% SAP
39% All Other
Page 1 of 8
Displaying 1 - 25 of 194
OK
CANCEL
kbelov@ixiacom.com
SESSION 2 - Test is Not Started
The application is running in demo mode. Learn how to add external interfaces to exit this mode.
NOTIFICATIONS 0

https://10.200.105.45/sessions/2/config
ixia Developer
Ixia Developer Test 2
EDITOR
DEBUGGER
STATISTICS
STOP DEMO TEST
00:00:10 - 1%
ADD
TRAFFIC
APPLICATIONTRAFFIC1
CISCO EMIX (11 APPS)
17% Raw
17% HTTP Video
15% Citrix
51% All Other
TIMELINE and CONSTRAINTS
1000 sessions
20000 sessions/s
10 Mb/s
RAMP UP 0:00:00
STEADY STATE 0:09:00
RAMP DOWN 0:01:00
NETWORK
ClientEntity
10.0.1.1
10
Demo interface
Demo interface
ServerEntity
10.0.2.1
10
INTERFACES
Interface
Tx Frames
Rx Frames
DemoEth1
20,394
11,314
DemoEth2
11,314
20,394
APPLICATION THROUGHPUT (Mbps)
Tx (9.811)
Rx (9.819)
FLOW TRANSACTIONS
Successful (9 k)
Failed (0)
Incomplete (17)
kbelov@ixiacom.com
SESSION 2 - Test is Running
The application is running in demo mode. Learn how to add external interfaces to exit this mode.
NOTIFICATIONS 2

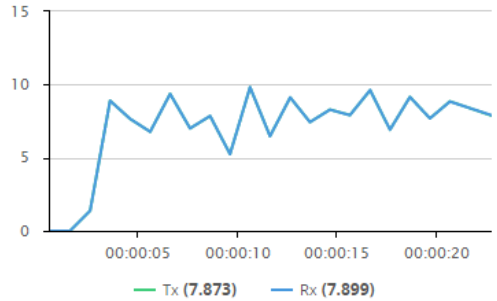
https://10.200.105.45/sess

https://10.200.105.45/sessions/2/stats

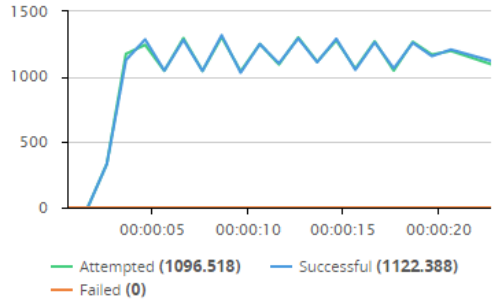
ixia Developer > Ixia Developer Test 2 | EDITOR | DEBUGGER | STATISTICS

STOP DEMO TEST | 00:00:24 - 3%

APPLICATION THROUGHPUT (Mbps)



FLOW TRANSACTIONS RATE



FLOW EXCEPTIONS

Time	Message

FLOW TRANSACTIONS

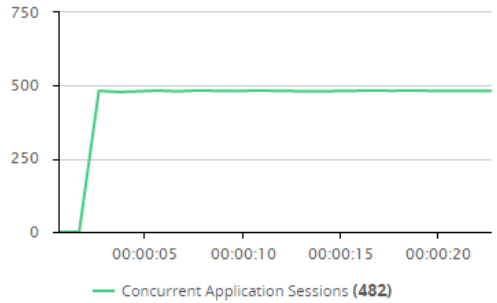
FLOW TRANSACTION DETAILS

Flow	Successful	Failed
RTCP	0	0
RTP	0	0
SIP	0	0
Citrix	3	0
FTP	73	0
Raw	3,782	0

FLOW THROUGHPUT DETAILS

Flow	Rx Throughput (Mbps)
SAP	1.110
Raw	0.897
eDonkey	0.118
Citrix	1.413
DNS	0.007
FTP	0.095

CONCURRENT SUPERFLOW SESSIONS



SUPERFLOW SESSION DETAILS

Superflow	Successful	Failed
SIP/RTP Direct Voice Call...	0	0
Citrix	3	0
HTTP Audio	3	0
FTP	6	0
HTTP Video	6	0
eDonkey Data Transfer	22	0

SUPERFLOW THROUGHPUT DETAILS

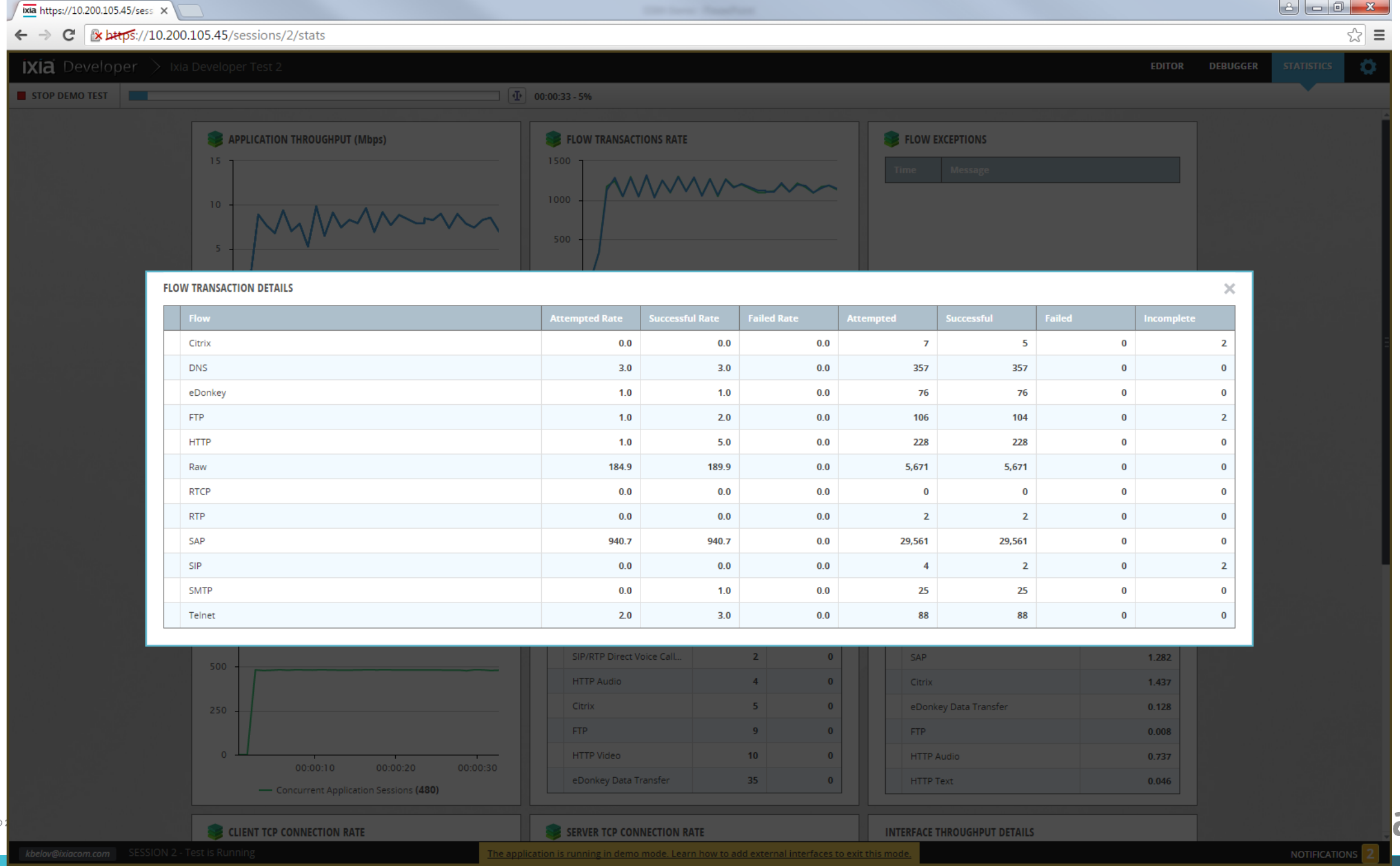
Superflow	Rx Throughput (Mbps)
SAP	1.291
Raw	1.123
eDonkey Data Transfer	0.127
Citrix	1.542
FTP	0.103
HTTP Audio	0.730

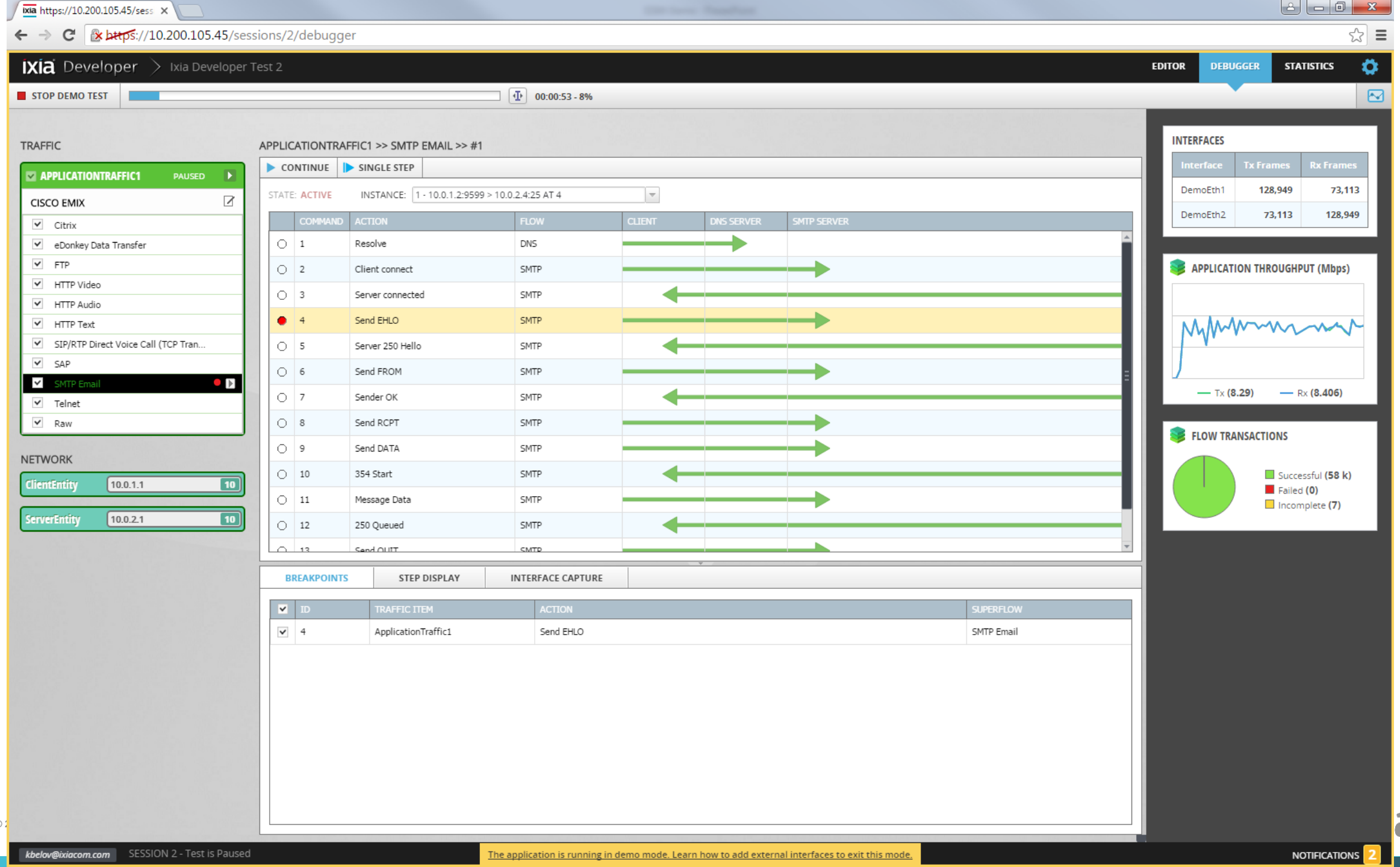
CLIENT TCP CONNECTION RATE

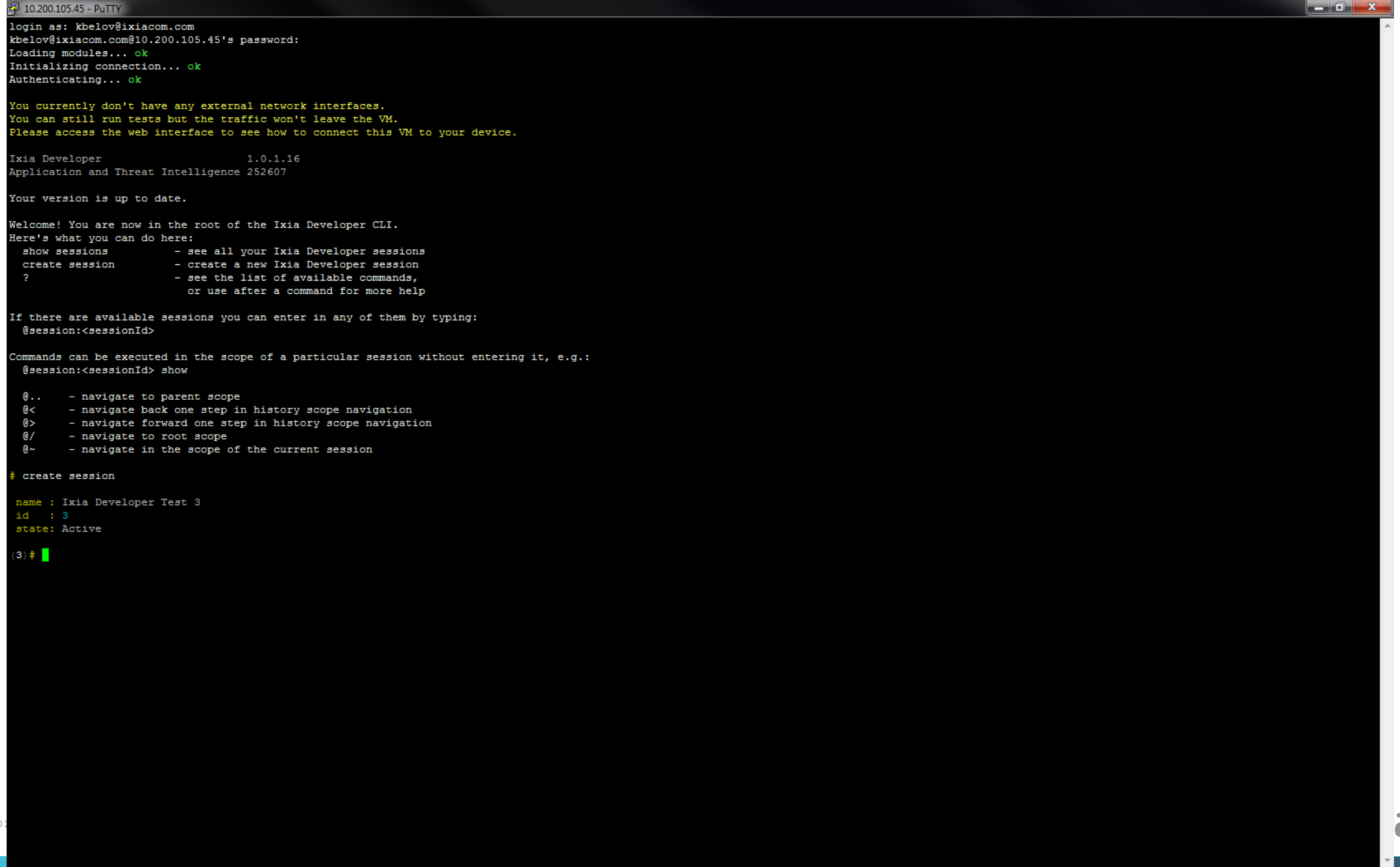
SERVER TCP CONNECTION RATE

INTERFACE THROUGHPUT DETAILS

kbelov@ixiacom.com | SESSION 2 - Test is Running | The application is running in demo mode. Learn how to add external interfaces to exit this mode. | NOTIFICATIONS 2


https://10.200.105.45/sess
https://10.200.105.45/sessions/2/stats
IXIA Developer
Ixia Developer Test 2
EDITOR
DEBUGGER
STATISTICS
STOP DEMO TEST
00:00:33 - 5%
APPLICATION THROUGHPUT (Mbps)
FLOW TRANSACTIONS RATE
FLOW EXCEPTIONS
Time
Message
FLOW TRANSACTION DETAILS
Flow
Attempted Rate
Successful Rate
Failed Rate
Attempted
Successful
Failed
Incomplete
Citrix 0.0 0.0 0.0 7 5 0 2
DNS 3.0 3.0 0.0 357 357 0 0
eDonkey 1.0 1.0 0.0 76 76 0 0
FTP 1.0 2.0 0.0 106 104 0 2
HTTP 1.0 5.0 0.0 228 228 0 0
Raw 184.9 189.9 0.0 5,671 5,671 0 0
RTCP 0.0 0.0 0.0 0 0 0 0
RTP 0.0 0.0 0.0 2 2 0 0
SAP 940.7 940.7 0.0 29,561 29,561 0 0
SIP 0.0 0.0 0.0 4 2 0 2
SMTP 0.0 1.0 0.0 25 25 0 0
Telnet 2.0 3.0 0.0 88 88 0 0
Concurrent Application Sessions (480)
SIP/RTP Direct Voice Call... 2 0
HTTP Audio 4 0
Citrix 5 0
FTP 9 0
HTTP Video 10 0
eDonkey Data Transfer 35 0
SAP 1.282
Citrix 1.437
eDonkey Data Transfer 0.128
FTP 0.008
HTTP Audio 0.737
HTTP Text 0.046
CLIENT TCP CONNECTION RATE
SERVER TCP CONNECTION RATE
INTERFACE THROUGHPUT DETAILS
kbelov@ixiacom.com
SESSION 2 - Test is Running
The application is running in demo mode. Learn how to add external interfaces to exit this mode.
NOTIFICATIONS 2


https://10.200.105.45/sessions/2/debugger
Ixia Developer
Ixia Developer Test 2
EDITOR
DEBUGGER
STATISTICS
STOP DEMO TEST
00:00:53 - 8%
TRAFFIC
APPLICATIONTRAFFIC1
PAUSED
CISCO EMIX
Citrix
eDonkey Data Transfer
FTP
HTTP Video
HTTP Audio
HTTP Text
SIP/RTP Direct Voice Call (TCP Tran...
SAP
SMTP Email
Telnet
Raw
NETWORK
ClientEntity
10.0.1.1
10
ServerEntity
10.0.2.1
10
APPLICATIONTRAFFIC1 >> SMTP EMAIL >> #1
CONTINUE
SINGLE STEP
STATE: ACTIVE
INSTANCE: 1 - 10.0.1.2:9599 > 10.0.2.4:25 AT 4
COMMAND
ACTION
FLOW
CLIENT
DNS SERVER
SMTP SERVER
1 Resolve DNS
2 Client connect SMTP
3 Server connected SMTP
4 Send EHLO SMTP
5 Server 250 Hello SMTP
6 Send FROM SMTP
7 Sender OK SMTP
8 Send RCPT SMTP
9 Send DATA SMTP
10 354 Start SMTP
11 Message Data SMTP
12 250 Queued SMTP
BREAKPOINTS
STEP DISPLAY
INTERFACE CAPTURE
ID
TRAFFIC ITEM
ACTION
SUPERFLOW
4 ApplicationTraffic1 Send EHLO SMTP Email
INTERFACES
Interface
Tx Frames
Rx Frames
DemoEth1 128,949 73,113
DemoEth2 73,113 128,949
APPLICATION THROUGHPUT (Mbps)
Tx (8.29)
Rx (8.406)
FLOW TRANSACTIONS
Successful (58 k)
Failed (0)
Incomplete (7)
kbelov@ixiacom.com
SESSION 2 - Test is Paused
The application is running in demo mode. Learn how to add external interfaces to exit this mode.
NOTIFICATIONS 2


10.200.105.45 - PuTTY
login as: kbelov@ixiacom.com
kbelov@ixiacom.com@10.200.105.45's password:
Loading modules... ok
Initializing connection... ok
Authenticating... ok
You currently don't have any external network interfaces.
You can still run tests but the traffic won't leave the VM.
Please access the web interface to see how to connect this VM to your device.
Ixia Developer 1.0.1.16
Application and Threat Intelligence 252607
Your version is up to date.
Welcome! You are now in the root of the Ixia Developer CLI.
Here's what you can do here:
show sessions - see all your Ixia Developer sessions
create session - create a new Ixia Developer session
? - see the list of available commands,
or use after a command for more help
If there are available sessions you can enter in any of them by typing:
@session:<sessionId>
Commands can be executed in the scope of a particular session without entering it, e.g.:
@session:<sessionId> show
@.. - navigate to parent scope
@< - navigate back one step in history scope navigation
@> - navigate forward one step in history scope navigation
@/ - navigate to root scope
@~ - navigate in the scope of the current session
create session
name : Ixia Developer Test 3
id : 3
state: Active
(3)#

```
10.200.105.45 - PuTTY
login as: kbelov@ixiacom.com
kbelov@ixiacom.com@10.200.105.45's password:
Loading modules... ok
Initializing connection... ok
Authenticating... ok

You currently don't have any external network interfaces.
You can still run tests but the traffic won't leave the VM.
Please access the web interface to see how to connect this VM to your device.

Ixia Developer                      1.0.1.16
Application and Threat Intelligence 252607

Your version is up to date.

Welcome! You are now in the root of the Ixia Developer CLI.
Here's what you can do here:
  show sessions          - see all your Ixia Developer sessions
  create session         - create a new Ixia Developer session
  ?                      - see the list of available commands,
                           or use after a command for more help

If there are available sessions you can enter in any of them by typing:
  @session:<sessionId>

Commands can be executed in the scope of a particular session without entering it, e.g.:
  @session:<sessionId> show

  @..     - navigate to parent scope
  @<      - navigate back one step in history scope navigation
  @>      - navigate forward one step in history scope navigation
  @/      - navigate to root scope
  @~      - navigate in the scope of the current session

# create session

 name : Ixia Developer Test 3
 id   : 3
 state: Active

(3)# add replay traffic Capture\ Sample

 name       : ReplayTraffic1
 type       : Replay
 txInterface: none
 rxInterface: none
 capture    : Capture Sample
 mtu        : 1500

(3)#
```

10.200.105.45 - PuTTY

```
(3)# @ReplayTraffic1 show packets
```

Number	Time	Source	Destination	Protocols	Length	Info
1	0	1.1.193.36	1.2.199.82	eth:ip:tcp	70	20067 > 5432 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170948484 TSecr=0
2	0	1.1.61.75	1.2.67.128	eth:ip:tcp	70	51887 > 5190 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170948485 TSecr=0
3	0.000001	1.1.193.87	1.2.198.246	eth:ip:tcp	70	20047 > 5432 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170948488 TSecr=0
4	0.000001	1.1.253.202	1.2.3.248	eth:ip:tcp	70	35738 > 139 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170948494 TSecr=0
5	0.000015	1.1.203.13	1.2.204.105	eth:ip:udp:rpc:data	108	V3 GETADDR Call
6	0.000027	1.1.156.24	1.2.162.77	eth:ip:udp:dns	86	Standard query 0x8cc9 A server-102b61c.example.int
7	0.00003	1.1.92.143	1.2.99.4	eth:ip:udp:dns	86	Standard query 0x4f90 A server-102766d.example.int
8	0.00003	1.1.92.140	1.2.98.195	eth:ip:udp:dns	86	Standard query 0x4f99 A server-1027616.example.int
9	0.000031	1.1.124.104	1.2.130.160	eth:ip:udp:dns	80	Standard query 0xac1b A receiver-1029666.int
10	0.000031	1.2.198.246	1.1.193.87	eth:ip:tcp	70	5432 > 20047 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170948723 TSecr=170948488
11	0.000032	1.2.199.82	1.1.193.36	eth:ip:tcp	70	5432 > 20067 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170948726 TSecr=170948484
12	0.000033	1.2.3.248	1.1.253.202	eth:ip:tcp	70	139 > 35738 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170948729 TSecr=170948494
13	0.000034	1.2.67.128	1.1.61.75	eth:ip:tcp	70	5190 > 51887 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170948742 TSecr=170948485
14	0.000041	1.2.204.105	1.1.203.13	eth:ip:udp:rpc	86	V3 GETADDR Reply (Call In 5)
15	0.000041	1.1.112.154	1.2.115.35	eth:ip:udp:dns	80	Standard query 0x5018 A receiver-1027b7e.int
16	0.000045	1.1.253.202	1.2.3.248	eth:ip:tcp	66	35738 > 139 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170948845 TSecr=170948729
17	0.000046	1.1.193.36	1.2.199.82	eth:ip:tcp	66	20067 > 5432 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170948851 TSecr=170948726
18	0.000046	1.1.193.87	1.2.198.246	eth:ip:tcp	66	20047 > 5432 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170948854 TSecr=170948723
19	0.000047	1.1.61.75	1.2.67.128	eth:ip:tcp	66	51887 > 5190 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170948858 TSecr=170948742
20	0.000052	1.2.98.195	1.1.92.140	eth:ip:udp:dns	102	Standard query response 0x4f99 A 1.2.118.22
21	0.000053	1.2.99.4	1.1.92.143	eth:ip:udp:dns	102	Standard query response 0x4f90 A 1.2.118.109
22	0.000054	1.2.162.77	1.1.156.24	eth:ip:udp:dns	102	Standard query response 0x8cc9 A 1.2.182.28
23	0.000055	1.1.203.13	1.2.204.105	eth:ip:udp:rpc	82	V3 NULL Call
24	0.000058	1.2.115.35	1.1.112.154	eth:ip:udp:dns	96	Standard query response 0x5018 A 1.2.123.126
25	0.000065	1.2.130.160	1.1.124.104	eth:ip:udp:dns	96	Standard query response 0xac1b A 1.2.150.102
26	0.000074	1.2.204.105	1.1.203.13	eth:ip:udp:rpc	66	V3 NULL Reply (Call In 23)
27	0.000079	1.1.92.140	1.2.118.22	eth:ip:tcp	70	63530 > 25 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170949112 TSecr=0
28	0.000079	1.1.92.143	1.2.118.109	eth:ip:tcp	70	63525 > 25 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170949115 TSecr=0
29	0.000079	1.1.156.24	1.2.182.28	eth:ip:tcp	70	14390 > 80 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170949119 TSecr=0
30	0.00008	1.1.112.154	1.2.123.126	eth:ip:tcp	70	64720 > 5060 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170949123 TSecr=0
31	0.00009	1.1.203.13	1.2.204.105	eth:ip:udp:rpc	108	V3 MNT Call[Malformed Packet]
32	0.000094	1.2.182.28	1.1.156.24	eth:ip:tcp	70	80 > 14390 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170949227 TSecr=170949119
33	0.000096	1.2.118.22	1.1.92.140	eth:ip:tcp	70	25 > 63530 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170949238 TSecr=170949112
34	0.000097	1.2.118.109	1.1.92.143	eth:ip:tcp	70	25 > 63525 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170949251 TSecr=170949115
35	0.000099	1.2.123.126	1.1.112.154	eth:ip:tcp	70	5060 > 64720 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170949267 TSecr=170949123
36	0.000107	1.1.124.104	1.2.150.102	eth:ip:tcp	70	6213 > 5060 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170949338 TSecr=0
37	0.000108	1.2.204.105	1.1.203.13	eth:ip:udp:rpc:nfs	114	V3 MNT Reply (Call In 31)
38	0.000109	1.1.92.143	1.2.118.109	eth:ip:tcp	66	63525 > 25 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170949357 TSecr=170949251
39	0.000111	1.1.92.140	1.2.118.22	eth:ip:tcp	66	63530 > 25 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170949371 TSecr=170949238
40	0.000115	1.1.112.154	1.2.123.126	eth:ip:tcp	66	64720 > 5060 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170949403 TSecr=170949267
41	0.000118	1.1.156.24	1.2.182.28	eth:ip:tcp	66	14390 > 80 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170949428 TSecr=170949227
42	0.000124	1.2.150.102	1.1.124.104	eth:ip:tcp	70	5060 > 6213 [SYN, ACK] Seq=0 Ack=1 Win=4344 Len=0 MSS=1460 TSval=170949463 TSecr=170949338
43	0.000126	1.1.203.13	1.2.204.105	eth:ip:udp:rpc:data	108	V3 GETADDR Call
44	0.000135	1.1.124.104	1.2.150.102	eth:ip:tcp	66	6213 > 5060 [ACK] Seq=1 Ack=1 Win=4344 Len=0 TSval=170949567 TSecr=170949463
45	0.000142	1.2.204.105	1.1.203.13	eth:ip:udp:rpc	86	V3 GETADDR Reply (Call In 43)
46	0.000161	1.1.203.13	1.2.204.105	eth:ip:udp:rpc	82	V3 NULL Call
47	0.000181	1.2.204.105	1.1.203.13	eth:ip:udp:rpc	66	V3 NULL Reply (Call In 46)
48	0.000196	1.1.203.13	1.2.204.105	eth:ip:udp:rpc:nfs	118	V3 GETATTR Call, FH: 0x615b844a
49	0.000216	1.2.204.105	1.1.203.13	eth:ip:udp:rpc	154	V3 GETATTR Reply (Call In 48) Directory mode: 0000 uid: 0 gid: 1
50	0.000232	1.1.203.13	1.2.204.105	eth:ip:udp:rpc:nfs	118	V3 FSINFO Call, FH: 0x82da47fc
51	0.000251	1.2.204.105	1.1.203.13	eth:ip:udp:rpc	206	V3 FSINFO Reply (Call In 50)
52	0.000267	1.1.203.13	1.2.204.105	eth:ip:udp:rpc:nfs	118	V3 FSSTAT Call, FH: 0x9a4c58bd
53	0.000286	1.2.204.105	1.1.203.13	eth:ip:udp:rpc	210	V3 FSSTAT Reply (Call In 52)
54	0.000303	1.1.203.13	1.2.204.105	eth:ip:udp:rpc:nfs:data	222	V3 CREATE Call, DH: 0xd8acb6b8/nerLC37TnKnX Mode: UNCHECKED
55	0.000321	1.2.204.105	1.1.203.13	eth:ip:udp:rpc:nfs:data	374	V3 CREATE Reply (Call In 54)
56	0.000339	1.1.203.13	1.2.204.105	eth:ip:udp:rpc:nfs	844	V3 WRITE Call, FH: 0xb7aed0cf Offset: 0 Len: 0 DATA_SYNC[Malformed Packet]
57	0.000363	1.2.204.105	1.1.203.13	eth:ip:udp:rpc:data	262	V3 WRITE Reply (Call In 56) Len: 0 UNSTABLE
58	0.000976	1.1.51.201	1.2.53.126	eth:ip:tcp	70	47072 > 5190 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170956292 TSecr=0
59	0.000976	1.1.53.92	1.2.54.65	eth:ip:tcp	70	47078 > 5190 [SYN] Seq=0 Win=3960 Len=0 MSS=1460 TSval=170956293 TSecr=0

```
(3)#
```

Dashboard | IxiaDeveloper RestAPI

https://10.200.105.45/docs/IxDev_RestAPI/Default.htm#RestAPI_Docs.htm%3FTocPath%3D____1

ixia

Contents

- REST API Documentation
- REST API Overview
- Python WebAPI Library

REST API Documentation

OptionsService

ApplicationsService

A web service to show the list of installed applications on this server. The returned values can be used as argument to create a session of a specific type

api/v1/applicationtypes

CaptureService

A web service to list and allow download of previously saved packet captures. New captures can be created at an application specific url

api/v1/captures

api/v1/captures/{captureId}

api/v1/captures/{captureId}/file/{fileName}

TestConfigurationService

A web service for managing (import/export/delete) saved test configurations

api/v1/configurations/{applicationType}

api/v1/configurations/{applicationType}/import

api/v1/configurations/{applicationType}/{configId}

api/v1/configurations/{applicationType}/{configId}/export

ГЛАВНЫЙ ПРИЗ ЛОТЕРЕИ –
ГОДОВАЯ ПОДПИСКА!

НЕ ПРОПУСТИТЕ ☺

СПАСИБО