Windows User Emulator

Increase reliability and reduce testing time!

Records windows user movement and execute later

Lua script extension for automating the Windows GUI simulates keystrokes, mouse movement.

This framework creates initial lua script from user's interaction.

Scalable Windows User Emulator

Records windows user movement and execute later

Presenter:-)

V Singh

Agenda

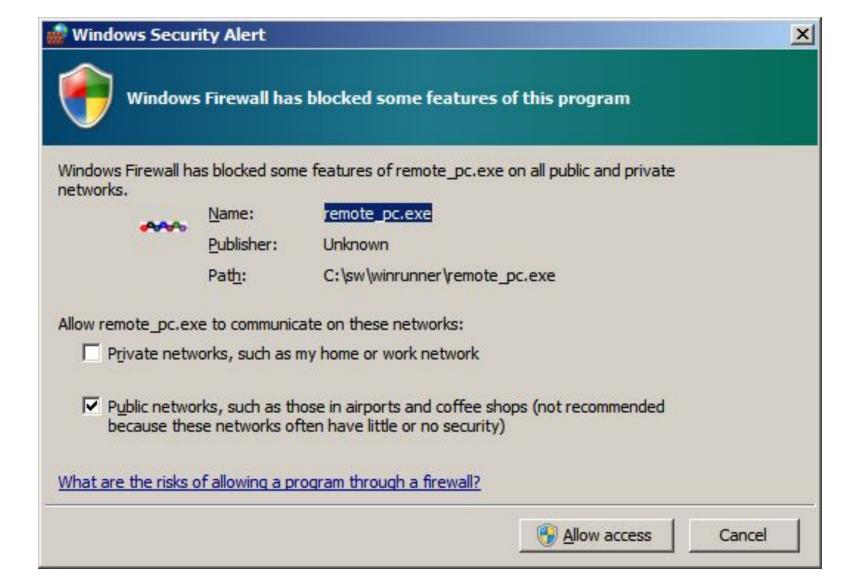
Please follow following slides about How it works!

How to create simple user emulator

Download following zip file (No spyware GCC compiled C++)

Ubuntu32/64 Raspberry PI also available

Common Windows Firewall Warning Message



GUI First Look

--- untitled.txt -- Application Example NONE 192.168.0.6 D WinFrame "Edit" autoexec.lua "lua" Plav DEL CTRL ALT ENTER Record Tp1 Tp2 Tp3 Tp4 remote.pdf Westboro_B., WIN_20171... RasV4.zip charm_time. Templ Save tpSize Template Create 32 x^R ∧ 2 10 108 AM 10/11/2018 100 10/11/2018 및 배 🥝 💢 🔚 🚅 😭 🚥 🔳 Type here to search Single Left Click 0 0 **KEYBRD TX1** NONE browse bat Template Mode

Standard Windows/Web Testing

winRunner.exe



Automatic testing for GUI

NONE

192.168.0.6 D

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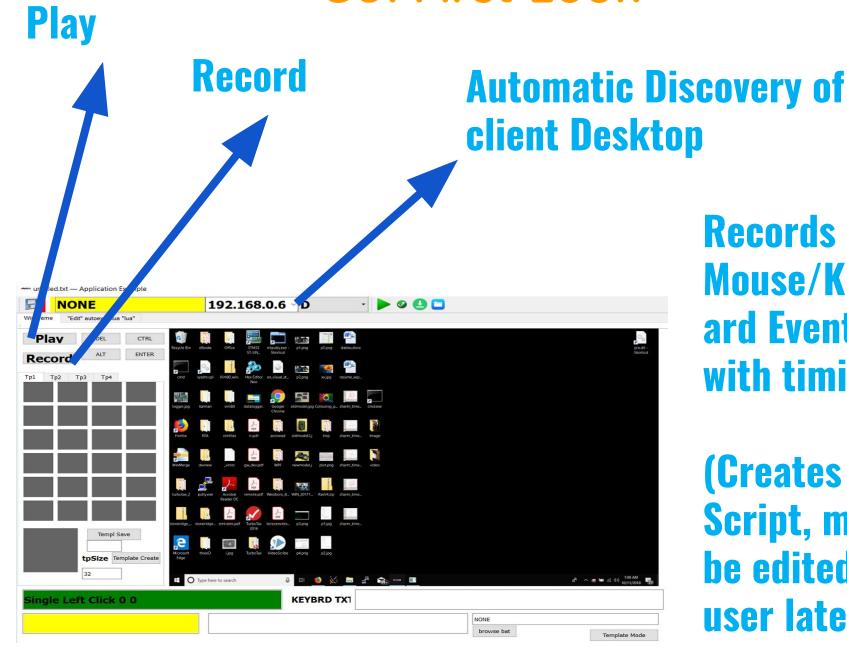
192.16

LAN/Automatic Discovery

remote_pc.exe



GUI First Look



Records HID Mouse/Keybo ard Event with timing

(Creates Lua **Script**, may be edited by user later)

Super simple procedure to create automatic testing

- 1. Unzip maser.zip from GITHUB repository.
- 2. Start Server Application on remote machine (winRunner.exe)
- 3. Start Client Application on Different PC on same network (remote_pc.exe)
- 4. Wait until system discovers IP Address of Remote PC
- 5. Click on Record button
- 6. Right/Left Mouse Click like starting Firefox/Web/App as well as Keyboard and see real time on screen. Once complete click Record button again to stop recording.
- 7. Click on Play button to replay last recorded lua script file.

Feature Under Development

- 1. OCR driven Windows GUI testing.
- 2. Template image search (Already implemented)
- 3. OpenCV3.4 Image analysis for fully automated windows testing system.

How system discovers Device on network



Regular Unsolicited UDP Broadcast on port 5555 From Client machine

Mouse/Keyboard Events



Presenter:-)

V Singh