

END-TO-END MONITORING WITH ALYVIX

APM On Open Source Basis: Do Users Really Suffer That Much?



Würth Phoenix: Alyvix' Sponsor

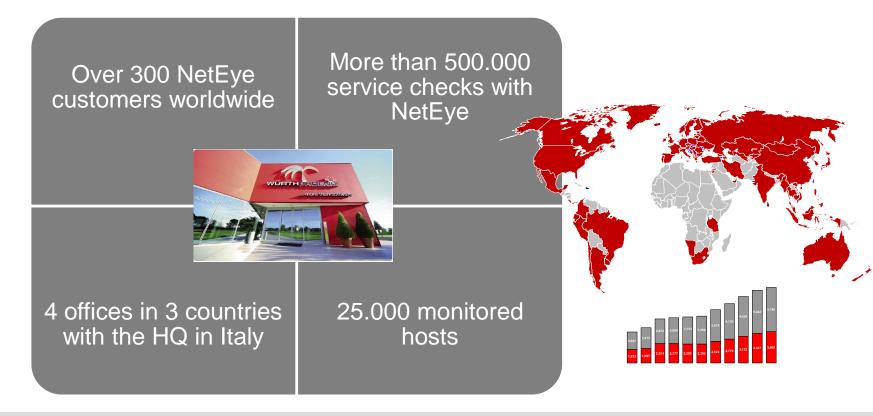


- IT and Consulting Company of the Würth-Group
- Headquarter in Italy, European-wide presence, more than 100 employees
- International experience in Business Software and IT Management
- Core competencies in trading processes, wholesale distribution, logistics and System Monitoring
- ITIL certified, Nagios Solution Provider, OTRS Service Partner, Microsoft Gold Certified Partner



Würth Phoenix: Facts And Figures





Our **mission** is to create the right balance between technology and services for our customers to support their IT operations and deliver in that way a better business result

Alan Pipitone: Alyvix' Founder



- In 2012 Alan Pipitone created a company with the primary purpose of providing consultancy applied to the world of robotics and automation
- By combining the experiences gained in the world of automation with the experiences gained in the information technology area, intelligent monitoring systems have been created
- Alan Pipitone started to produce custom software to simulate human behavior necessary to monitor specific applications or to interact with them
- In 2012 the Open Source project of Alyvix was born in collaboration with Diesel S.p.a. and Würth Phoenix S.r.I.

End User Experience Monitoring

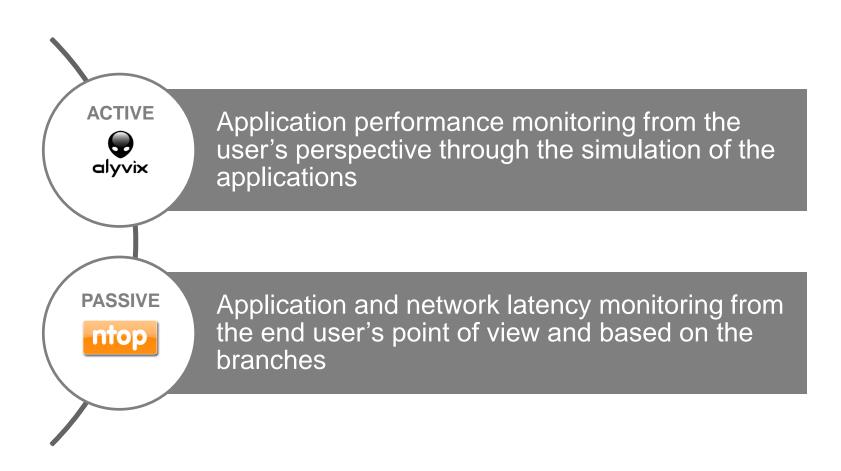




- End User Monitoring (often referred to as End User Experience Monitoring) controls the performance of business-critical applications from the perspective of the end user.
- The concept of **end user monitoring** is based on the assumption that the quality control of a certain application has to be made from the **user's point of view** rather than through the monitoring of the single IT components. Single Databases, web servers and hosts can work properly, although users might encounter possible anomalies on the application.

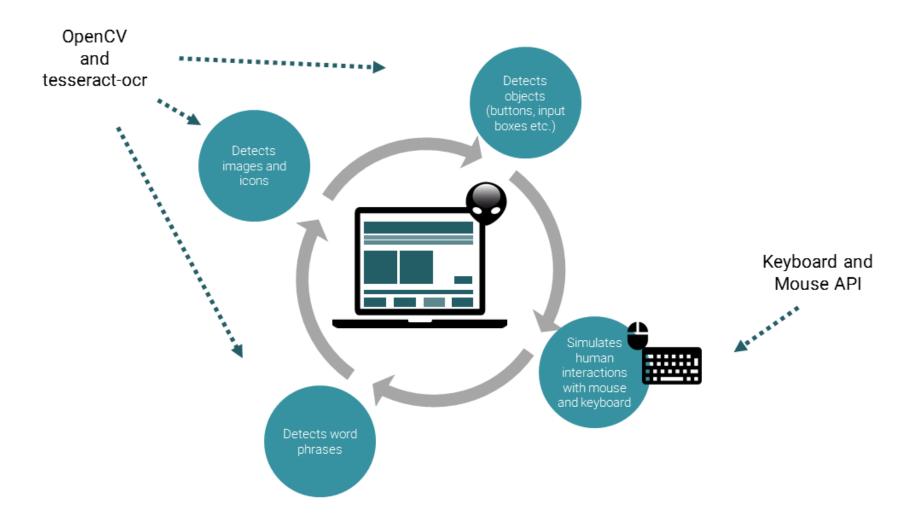
Active Vs. Passive Approach

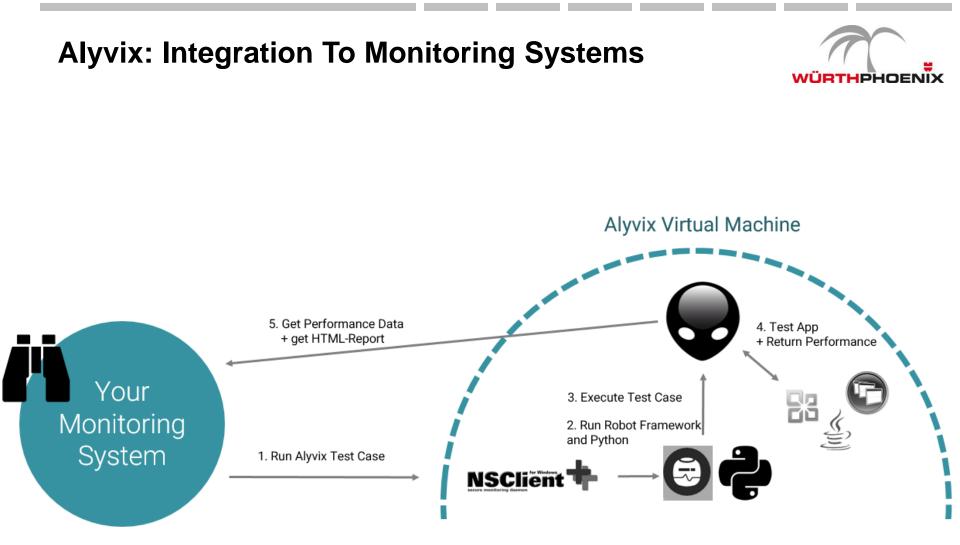




Alyvix: How It Works







New Release: Alyvix 2



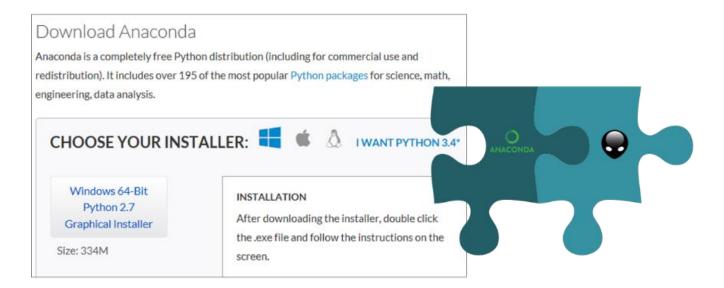


- Released on 18th September 2015
- Integration of Robot Framework
- Integration of Anaconda
- Many new features ...

New Features: Simple Deployment



• Through the integration of Anaconda, the deployment of Alyvix 2 and all required components, can be done in 2 steps.



New Features: Enhanced Computer Vision



• To be sure, that it has recognizes the correct object, Alyvix 2 checks if other related objects are present in the same region.

	<u> }////////////////////////////////////</u>		D	ocument - Wor	dPad	
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New Features: Test Case Creation



 Thanks to the integration of Robot Framework, it is now possible to create test cases without any Python knowledge. The new RIDEplugin allows to automatically create Python methods, which can be easily recalled by the usage of keywords.

	RIDE - WordPad	
File Edit Tools Navigate Macros Alyvix He	ειρ	
⇔ ⇔ ≥ =	Edit Text Edit Run	Form ×
External Resources	test_zoom Settings >>	Rect Finder
	1 run_wordpad 2 Click on View Tab	Text Finder
	3 Zoom In 4 Type String	Object Finder
	5 Close Wordpad 6	Custom Code
		Cancel

New Features: HTML Reports



 Alyvix 2 automatically creates HTML Reports, to get information about performance and other significant metrics. For an easier troubleshooting, screenshots of the tested application are directly shown within the HTML reports.

Test Execution Log

TEST SUITE: Wuerth Rd	esktop	00:01:28.420
Full Name:	Wuerth Rdesktop	
Source:	C:\alan\ride_test\wuerth_rdesktop.robot	
Start / End / Elapsed:	20150904 15:04:36.042 / 20150904 15:06:04.462 / 00:01:28.420	
Status:	1 critical test, 0 passed, <mark>1 failed</mark> 1 test total, 0 passed, <mark>1 failed</mark>	
TEARDOWN: Finish		00:00:00.046
Start / End / Elapsed:	20150904 15:06:04.416 / 20150904 15:06:04.462 / 00:00:00.046	
KEYWORD: Screen	shot.Take Screenshot	00:00:00.046
TEST CASE: outlook		00:01:27.828
Full Name:	Wuerth Rdesktop.outlook	
Start / End / Elapsed:	20150904 15:04:36.588 / 20150904 15:06:04.416 / 00:01:27.828	
Status:	FAIL (critical)	
Message:	step reinsert_creds timed out, execution time: 60	
KEYWORD: Operat	ingSystem.Set Environment Variable alyvix_testcase_config, C:\\alyvix\\config.xml	00:00:00.000
KEYWORD: Proces	s.Start Process C:\\Program Files (x86)\\Internet Explorer\\iexplore.exe, https://rdweb.wuerth-phoenix.com, -private	00:00:00.000
		00:00:13.182
KEYWORD: Alyvix	Proxywuerth_rdesktop.App Folder	00:00:04.821
KEYWORD: Alyvix	Proxywuerth_rdesktop.Open Outlook	00:00:04.804
		00:00:04.852
KEYWORD: Alyvix	Proxywuerth_rdesktop.Reinsert Creds vx/FkBOCpqR46w==, qQ36zEzEIJJe	00:01:00.154
Start / End / Elapsed:	20150904 15:05:04.262 / 20150904 15:06:04.416 / 00:01:00.154	
15:06:04.416	FAIL step reinsert_creds timed out, execution time: 60	

New Features: HTML Reports

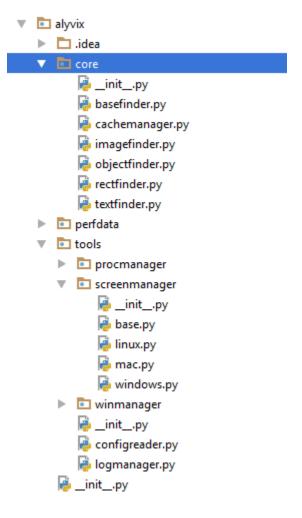


TEST SUITE, Wuseth Dd		REPORT
TEST SUITE: Wuerth Rd Full Name:	Wuerth Rdesktop	00:01:28.420
Source:		
Start / End / Elapsed:	C:\alan\ride_test\wuerth_rdesktop.robot 20150904 15:04:36.042 / 20150904 15:06:04.462 / 00:01:28.420	
Status:	1 critical test, 0 passed, 1 failed 1 test total, 0 passed, 1 failed	
TEARDOWN: Finish Start / End / Elapsed:	20150904 15:06:04.416 / 20150904 15:06:04.462 / 00:00:00.046	00:00:00.046
KEYWORD: Screen		00:00:00.046
Documentation:	Takes a screenshot in JPEG format and embeds it into the log file.	
Start / End / Elapsed:	20150904 15:06:04.416 / 20150904 15:06:04.462 / 00:00:00.046	
15:06:04.462	INFO INFORMATION INTERCOMPTICATION INTERCOMPTIC	Friday, Septembe

New Features: API



 Well documented APIs allow to develop plugins, which can be reused and shared with the community.



New Features: Less CPU Consumption



Alyvix 2 is optimized to run on machines with lower CPU performance.

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WordPad	Edit Text Edit Run	$\triangleleft \triangleright \times$				
External Resources	test_zoom					
	Settings >>					
	1 run_wordpad	^				
	2 Click on View Tab					
	3 Zoom In					
	4 Type String					
	5 Close Wordpad					
	6					

New Features: Log Retention



• Alyvix 2 provides detailed logs and further grants to overwrite old logs. The log retention can be configured.

KEYWORD OperatingSystem. Set Environment Variable alyvix_testcase_config, c:\\alyvix\\config.xml	00:00:00.001
Documentation: Sets an environment variable to a specified value.	
Start / End / Elapsed: 20150806 17:35:42.978 / 20150806 17:35:42.979 / 00:00:00.001	
17:35:42.978 INFO Environment variable 'alyvix_testcase_config' set to value 'c:\alyvix\config.xml'	
Eurorb Builth . Comment run_wordpad	00:00:00.001
Documentation: Displays the given messages in the log file as keyword arguments.	
Start / End / Elapsed: 20150806 17:35:42.979 / 20150806 17:35:42.980 / 00:00:00.001	
KEYWORD \${process_id} = Process calc.exe	00:00:00.006
Documentation: Starts a new process on background.	
Start / End / Elapsed: 20150806 17:35:42.980 / 20150806 17:35:42.986 / 00:00:00.006	
17:35:42.980 INFO Starting process: ['calc.exe']	
17:35:42.982 INFO \${process id} = 1	
- KEYWORD Builth . Sleep 2	00:00:02.002
Documentation: Pauses the test executed for the given time.	
Start / End / Elapsed: 20150806 17:35:42.987 / 20150806 17:35:44.989 / 00:00:02.002	
17:35:44.989 INFO Slept 2 seconds	-
KEYWORD Process .Terminate Process \${process _id}, Kill=True	00:00:00.102
Documentation: Stops the process gracefully or forcefully.	
Start / End / Elapsed: 20150806 17:35:44.989 / 20150806 17:35:45.091 / 00:00:00.102	
17:35:44.990 INFO Forcefully killing process.	
17:35:45.091 INFO Process completed.	

New Features: Enhanced Security

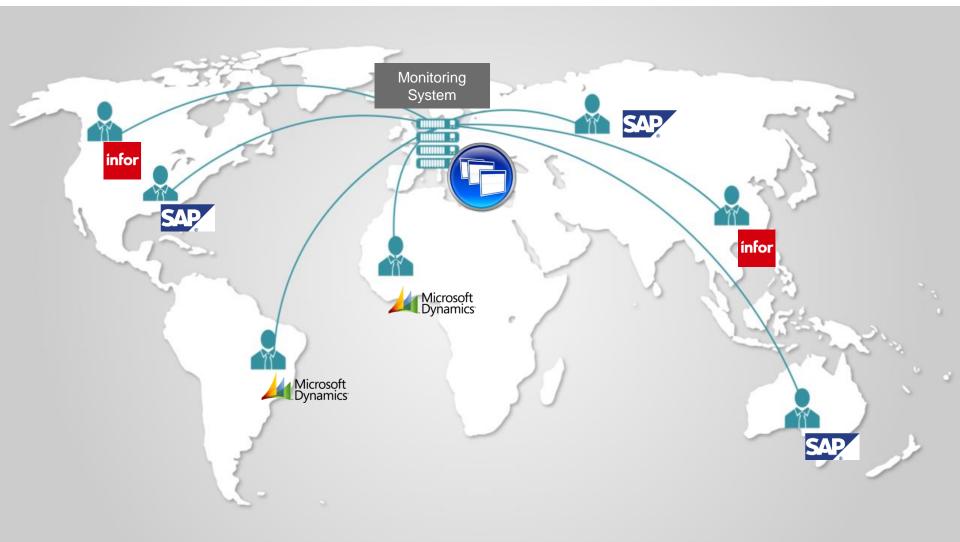


• For security reasons, credentials within the test cases are encrypted.

C:\Anaconda\Scripts>python alyvix_cry	/pto	_utility.py			
Alyvix crypto utility, by Alan Pipito http://www.alyvix.com	one				
Press e to encrypt data, press d to d Press k to set the key to encrypt/dec Press q to quit.					
Type your choice: e Type the text to encrypt: domain\myus rADOnBeZib1k70x/7g==	er				
Type your choice: e Type the text to encrypt: mypassword pRbpnA2Eor9v/Q==	1	Start Process	C:\\Program Files (x86)\\Internet Explorer\\jexplore.exe		-privat
Type your choice:	2	Login	rAD0nBeZib1k7Ox/7g==	pRbpnA2Eor9v/Q==	
	3	Open Outlook			
	4	New Mail			
	5	Insert and Send			
	6	Terminate All Processes	Kill=True		

Distributed Testing of a Citrix Farm



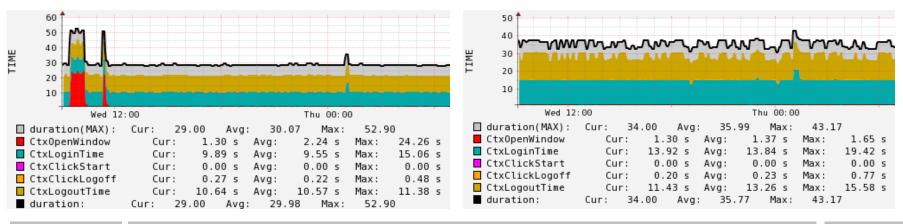


Performance Statistics



				34	lect host / services with leftclick to send select all (hosts) - unsele	multiple commands. Select multiple wi ct all - all problems - all with downtime	th shift + mouse.	
Host	A.W.	Service + T		Status 🖛	Last Check AV	Duration +*	Attempt **	
neteve03	w 📕	ALEXA_Otrix/	3 🖂	OK	10:02:27	11d 6h 53m 33s	1/3	OK: all steps are ok
		ALEXA_CitrixAppliant	2 📈	ОК	10:01:53	10d 6h 43m 22s	1/3	OK: all steps are ok
		ALEXA_CitrixC	3	OK	10:01:19	3d 7h 22m 13s	1/3	OK: all steps are ok
		ALEXA_Citrix	2 20	OK	10:00:47	3d 7h 23m 3s	1/3	OK: all steps are ok
		ALEXA_Otrixi and a	3	ОК	10:00:16	3d 8h 23m 31s	1/3	OK: all steps are ok
		ALEXA_Citrix	2 📈	OK	09:59:38	14d 22h 51m 25s	1/3	OK: all steps are ok
		ALEXA_CitrixRum	2 📈	OK	09:58:59	19d 19h 34m 2s	1/3	OK: all steps are ok
		ALEXA_CitrixS	2	OK	09:58:30	0d 8h 47m 4s	1/3	OK: all steps are ok
		ALEXA_Citrix	2 20	OK	09:57:49	18d 8h 36m 50s	1/3	OK: all steps are ok
		ALEXA_CitrixSuling	2 📈	OK	09:57:13	3d 7h 36m 45s	1/3	OK: all steps are ok
		ALEXA_Obtix100	2 10	OK	09:56:37	0d 8h 49m 13s	1/3	OK: all steps are ok

Same check performed from different access point



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THANK YOU FOR YOUR ATTENTION!



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