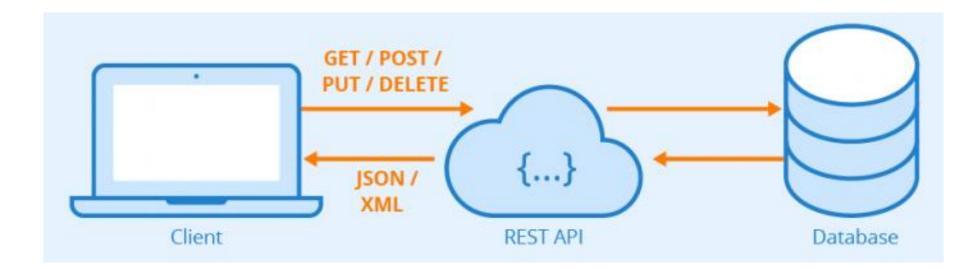
CTAP Test Automation

Images



Abbreviations

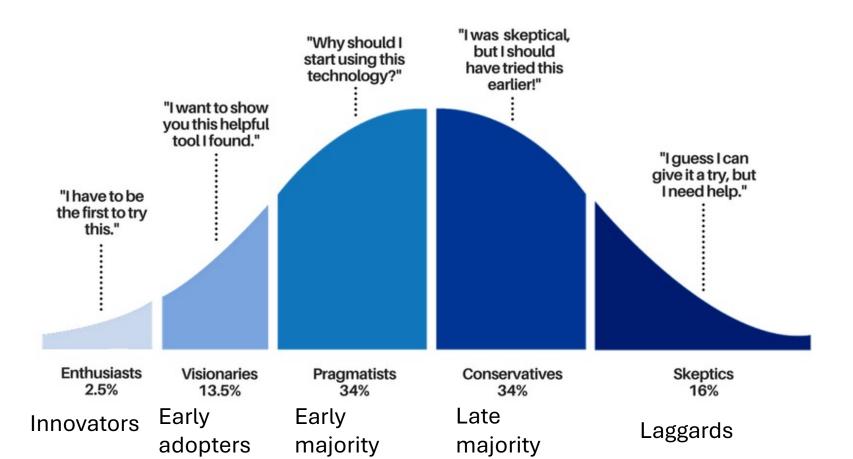
- <u>API</u>: Application Programming Interface
- XML: Extensible Markup Language
- <u>JSON</u>: JavaScript Object Notation
- <u>REST</u>: REpresentational State Transfer
- <u>SOAP</u>: Simple Object Access Protocol

Examples of a web service

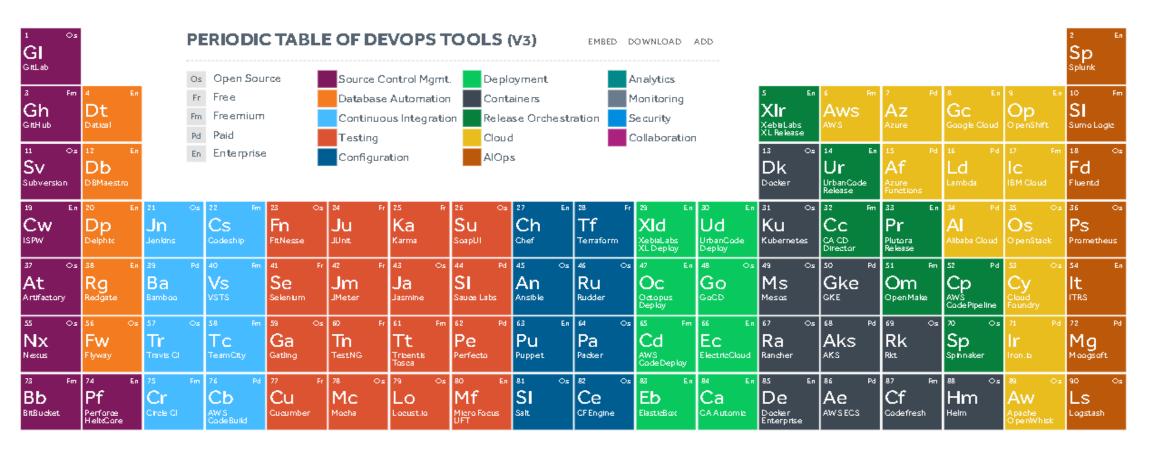
SOAP-ENV: Envelope SOAP SOAP-ENV: Header {REST} SOAP-ENV: Body POST /GetStock HTTP/1.1 GET http://example.org/stock/IBM Host: www.example.org Content-Type: application/soap+xml <?xml version="1.0"?> <soap:Envelope xmlns:soap="http://www.w3.org/2001, envelope" soap:encodingStyle="http://www.w3.org/ 2001/12/soap-encoding"> <soap:Body xmlns:m="http://www.example.org/ stock"> <m:GetStockPrice> <m:StockName>IBM</m:StockName> </m:GetStockPrice> </soap:Body> </soap:Envelope>

Test tool selection

Tool adoption & tool selection



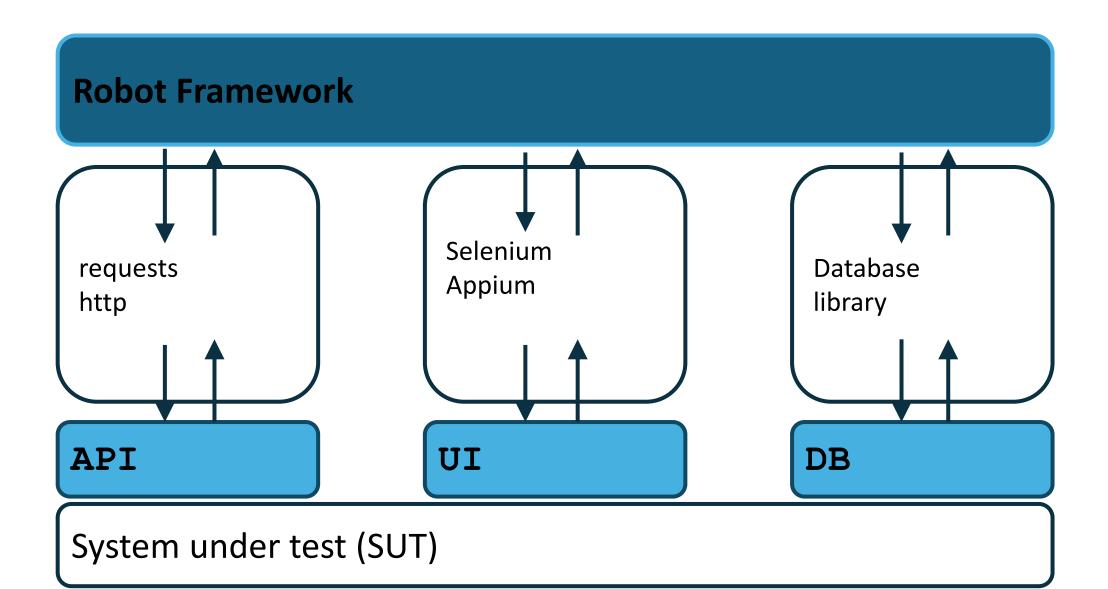
How to find the right tool?





91 En	n S	92 0	s	93	Fm	94 E	n	95 E	En	96 Fm	97	/ Os	98	8 Os	99 Os		100 En	1	101 En	102	En	103	En	104	0s	105	Os
X li XebiaLabs XL Impact		Ki Kibana		Nr New Relia		Dt Dynatrace		Dd Datadog		Ad AppDynamiks	E E Ia				Zb ^{Zab bte}		Zenass		Cx Dheckmarx SAST	Sg Signal Science	25	Bd Blackt	buek	Sr SonarQu	ıbe	HV HashiCor Vault	Р
106 En	n :	107 P	a	108	Fm	109 Fr	-	110 Fr	-	111 En	n 11	12 E.n	1	.1.3 E.n	114 Pd	Т	115 Pd	1	116 Os	117	Os	118	En	119	En	120	En
Sw ServiceNow		Jr Jira		TI Trella		S I Slack		Stride Stride		Cn CallabNet VersionOne		₹y ≊medy			Og OpsGenie		Pd Pagerduty	ľ	Sn Snart	Tw Tripwir	e	Ck Cybe	pAirk r	Vc Veracode		Ff Fartify SC	:A

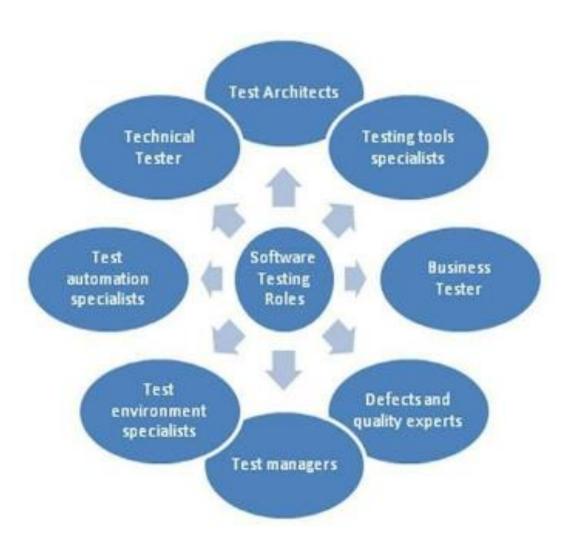
Architecture



The structure for ordering test cases

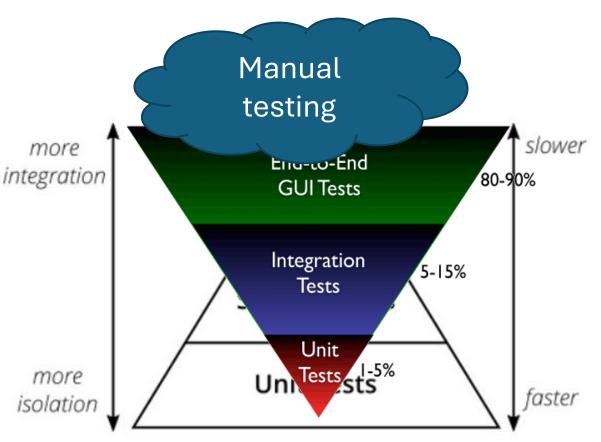
	Sections	To be used for							
*** Settings *** Documentation Library	Settings	 1) Importing test libraries, resource <u>files</u> and <u>variable files</u> 2) Defining metadata for <u>test suites</u> and <u>test</u> <u>cases</u> 							
<pre>*** Variables *** \${MESSAGE}</pre>	Variables	Defining variables that can be used elsewhere in the test data							
*** Test Cases *** My Test	Test Cases	Creating test cases based on available keywords							
	Tasks	Creating tasks using available keywords.							
Another Test	Keywords	Creating user keywords based on existing keywords							
*** Keywords *** My Keyword	Comment s	Additional comments or information. Ignored by Robot Framework							

Test roles

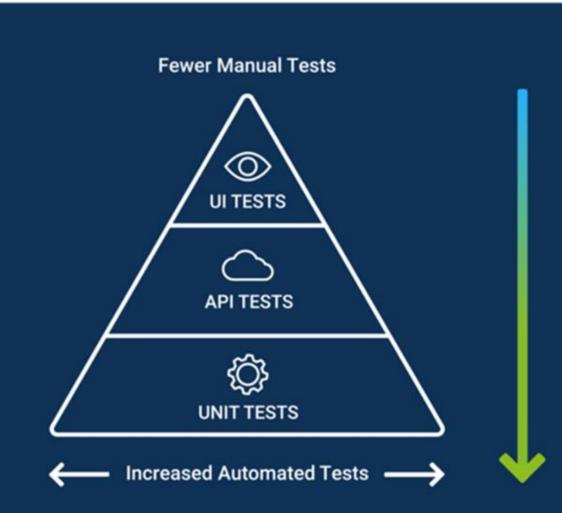


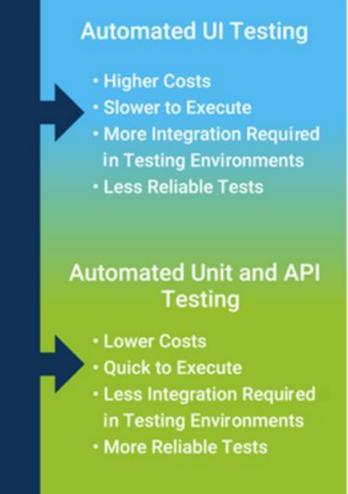
What is a testing pyramid?

- Testing pyramid is a framework that can facilitate both developers and testers in building high-quality software
- The testing pyramid describes the test types that the development and QA teams should incorporate in an automated test suite



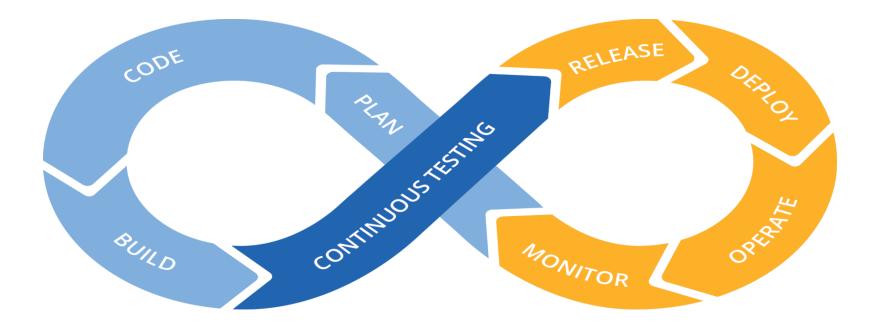
Testing pyramid





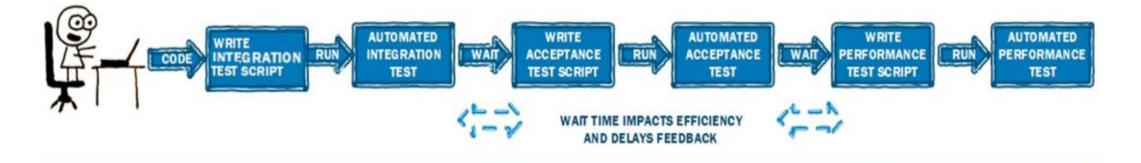
What is continuous testing?

<u>Continuous testing</u> is the process of running automated tests as part of the software delivery pipeline in order to get feedback on the business risks of a delivery as quickly as possible

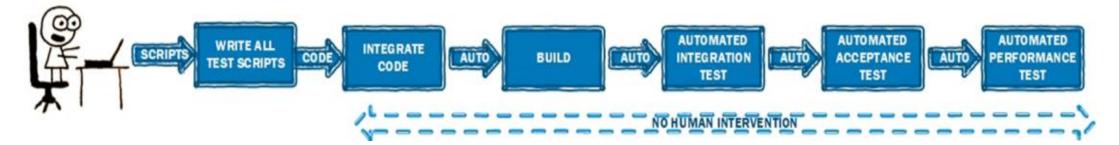


Continuous testing

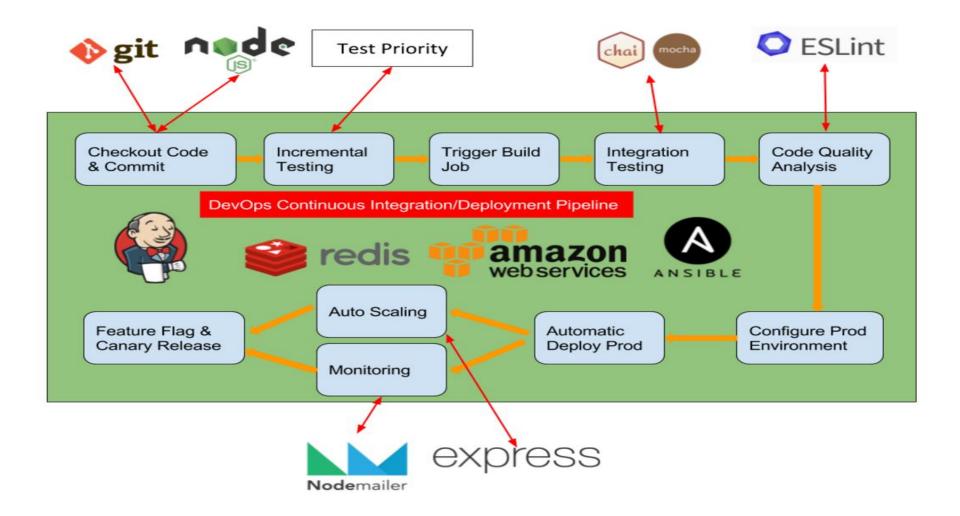
AUTOMATED TESTING



CONTINUOUS TESTING



Deployment pipeline



Deployment pipeline





