TESTING: THE CONTINUOUS CHANGING PRACTICE Have you covered all levels of continuous testing?

ANDREAS PRINS

TESTING THE CONTINUOUS CHANGING PRACTICE

Part 1

Big picture testing influencers

Responsive enterprise

Lean (IT) the external factor

IT Performance

The Impact of simplification

Part 2

The continuous Shift Left

Testing transformation

The opportunities of stretch right

Endless automation

A JOURNEY IN SOFTWARE DELIVERY

SOGETI

6,5 of test consultancy



- Lean Consultant
- Agile/DevOps Coach
- Team manager 4 DevOps teams

digital.ar

VP Product Strategy





TESTING WILL GO THROUGH CHANGE DEPENDING ON STATE OF THE ORGANISATIONAL TRANSFORMATION



Customer Collaboration



Organizational Simplicity



Data Driven Experiments



THE TESTING DISCIPLINE IS IMPACTED BY THE LEAN PRACTICES AND STRIVE FOR PERFECTION



Lean products and processes



IT landscape Simplicity



Value Stream Management



AUTOMATION IS KEY TO ACCELERATE DELIVERY AND INCREASE OPERATIONAL PERFORMANCE

AUTOMATION AND INTEGRATION BY PERFORMANCE PROFILE

	Low	Medium	High	Elite	With Au
Automated build	64%	81%	91%	<mark>92</mark> %	
Automated unit tests	57%	66%	84%	87%	
Automated acceptance tests	28%	38%	48%	58%	Automa
Automated performance tests	18%	23%	18%	28%	and a la
Automated security tests	15%	28%	25%	31%	
Automated provisioning and deployment to testing environments	39%	54%	68%	72%	
Automated deployment to production	17%	38%	60%	69%	
Integration with chatbots / Slack	29%	33%	24%	69%	The Qua
Integration with production monitoring and observability tools	13%	23%	41%	57%	of the sy
None of the above	9 %	14%	5%	4%	

utomated build as well established practice, teams can move on.

ated testing has a big difference per practice arge distribution from Low to Elite performers.

ality Mindset needs to utilise understanding systems in production

DORA report: Accelerate: State of DevpOps 2019







TESTING TRANSFORMATION

SIMPLIFICATION AND THE IMPACT ON TESTING



IT landscape Simplicity





Value Stream Management

Limitation of combinations

Less complexity in end-2-end testing

Simplification and impact on testing

Flow of activities

 \prec

THE ACCELERATION OF THE SHIFT-LEFT & THE MISSING LINK



laborative?	Meaningful KPIs?	Feedback Loop?
?	?	?
?	?	?

OPPORTUNITIES OF THE STRETCH LEFT



Monitoring





Modern Deployment Patterns

Observability

ENDLESS AUTOMATION LEADS TO CONTINUOUS EXPLORATION



See the interactive landscape at I.cncf.io Greved logos are not open source **Observability & Analysis** Platforms uous Delivery (CI/CD) Monitoring BRIGADE wy Buldete ANNINGAL EXTERNA hobica HELM G 8 ≥go -0-E RACLE ORACLE A CINGA # hanCity and Travis Cl. weave SUSE. -----**OTICIDAE** C CONDUM -55 RIBBON A Kong weave 8 NGMX 0vamp 00 fluentd $\underline{\times}$ 8 . 8 cilium Chesto ZTE CUMALUE, CNI NSX _ 0 Ð 2 Distanting 1 OVS () One Ballos Key Management 0 Serverless ο 6 (Taqua CHBERARK COLOR spiffe 5 Contract of SPIRE 1 2 2 1 1 1 1 **0** 1 - 1 2 2 0 lyA ▼ - 第三部市市市市村 - 東人夫-PRACLE Vault 33 Contractory of DesCoul 8 Q CLOUD NATIVE 0 ¢ **4**) 1222 accenture O Ditrumi ----coverics: claranet CONTINO calcheud. Landscape GeoCloud Seales ince <u>♦</u> MRANTIS 51° 6 kumina CLOUD NATIVE COMPUTING FOUNDATION ve Tau Liverinen Ploodse Roodse Hheptio THE ARTISTACE 10 0 RX.M. Düwer Y Amplify Redpoint Contr • natwoja SAP NTTORTA Downer RX.ML MANUAL DIS. statute 2235 TREASURE .

nirmata

THANK YOU







