

PERFORMANCE TESTING AUTOMATION FOR CI/CD PIPELINES.



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Who is this speaker?



- Henrik Rexed (khnightloader)*
- 14 years of Performance engineering



- Technical Evangelist @Neotys
- Lego Fan
- Focus on technologies for Performance engineers









Performance testing is like going to the Gym

- Over 1 in 5 Americans belong to at least one U.S. health club or studio
- 12% gym members sign up in January
- Most of the people quit or stop going after 24 weeks
- 50% is going to find the soulmate





Ok but let's review our architecture first

From Monolitic





Ok but let's review our architecture first



Let's move to the cloud

- Reduce the cost
- Increase the availability of the approximate

Simplify, modernize





How can we resolve all those challenges?







Performance testing is like





Efficient and realistic workload model







Let's reuse monitoring data



Traditional monitoring

Tracking system

APM



Let's extract data from our APM to learn how our application is used







Architecture is Based on Components





Continuous Performance Testing

Integration Testing API Testing **Application Testing** Test a Component Test a System Test Real World $\bullet \bullet \bullet$ Test Dep/or Build Continuous Testing Embedded in CI/CD Pipelines



The complexity of the test depends of project life cycle















Not limit the evaluation only on response time

Production

- Rendering time
- Number of clicks to achiev an actions
- Average visit time
- 10
- Number of Pods utilizd

User Experience

- On a representative environement:
- Response Time-Rendering time
- Number of container Pods/utilized
- The behavior of the network
- ..etc



Regression

Detecting regression by looking at:

- Response time
- Hit/s
- Memory used
- Cpu

Scalability

If it's a cloud native architecture :

- Number of containers/Pods utilized
- The memory used
- CPU
- Response time









What we prepared for you today





Demo time









• The cost of the environment





