



# Performance Testing

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# Agenda

- What is Performance Testing?
- Understanding How JMeter Works
- JMeter Interface & Vocabulary
- Demo
- Stress vs Load Testing
- Q & A



# What is Performance Testing?

## // NEED

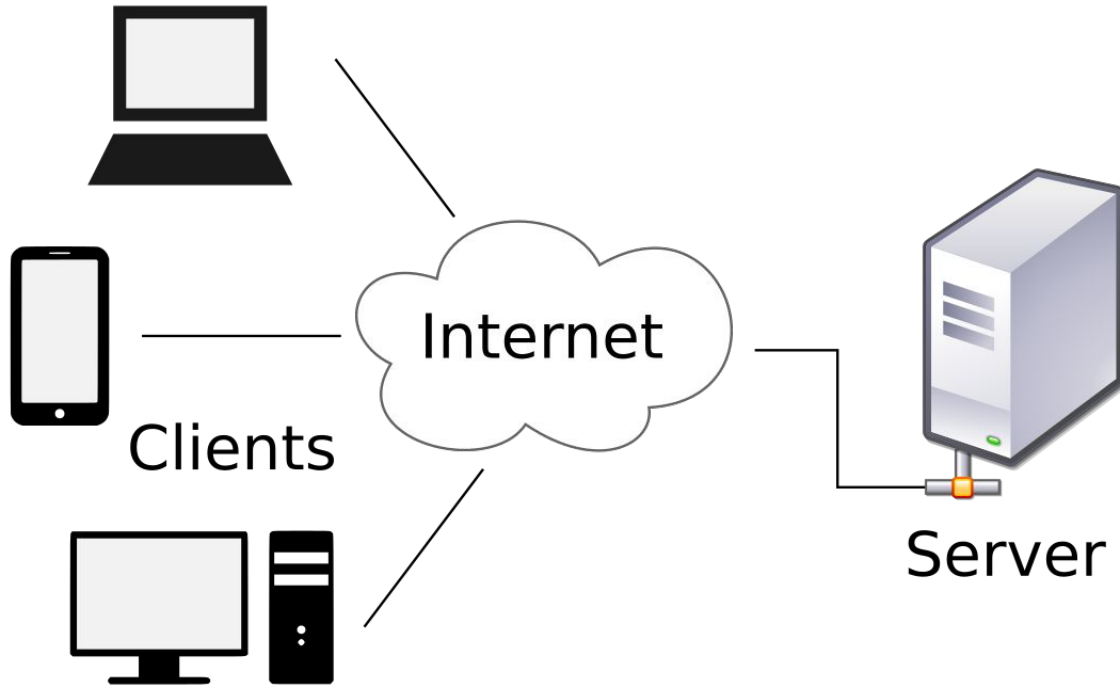
Ensure a good user experience (fast and error free) under any user load.

## // HOW

Create the load.  
Measure the user experience.



# Performance Testing





# Understanding How JMeter Works

# How does a browser work?



1. Browser sends a request (enter URL, click a button, AJAX).
2. Server responds (HTML, images, etc).
3. Browser parses response and executes JS.
4. Repeat



# How does JMeter work?

—

1. JMeter sends a request (HTTP Request).
2. Server responds (HTML, images, etc).
3. JMeter parses response (optional) ~~and executes JS.~~
4. Repeat





# JMeter Interface and Vocabulary

- Test Plan (JMeter script)
- Thread Group (thread = user)
- Samplers (makes a request)
- Config Elements
- Timer (delay)
- Listener (reporting, logging and debugging)
- Assertion (error checking)
- Pre processor (modify the request)
- Post processor (parse the response)
- Logic controller (if, while, switch)





# DEMO



**Simple  
Static  
Script**



**Recording  
Browser  
Activity**



**Data  
Driven  
Test**



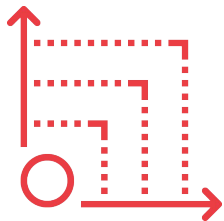
**Reporting**

# Stress vs Load Testing



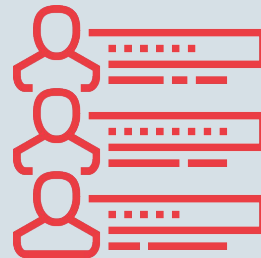
## ***Stress***

- Test the system with an extreme load until the system breaks down.
- Find bottlenecks.
- Graceful recovery?



## ***Load***

- Test the load expected of the system.
- Find bugs, memory leaks, zombie processes, etc.





# Q & A



# THANK YOU

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