ASUG Webcast
Automated Load Testing

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60 percent of all IT projects end in failure - IBM

Lack of Progress Tracking

Competing Priorities

Leadership

Ignored Warnings

Planning

Immature Testing

Lack of Communication

Ethics Violations

Improper Training

Expectation Management

Culture

Cost Estimation

Your IT project faces a variety of dangers

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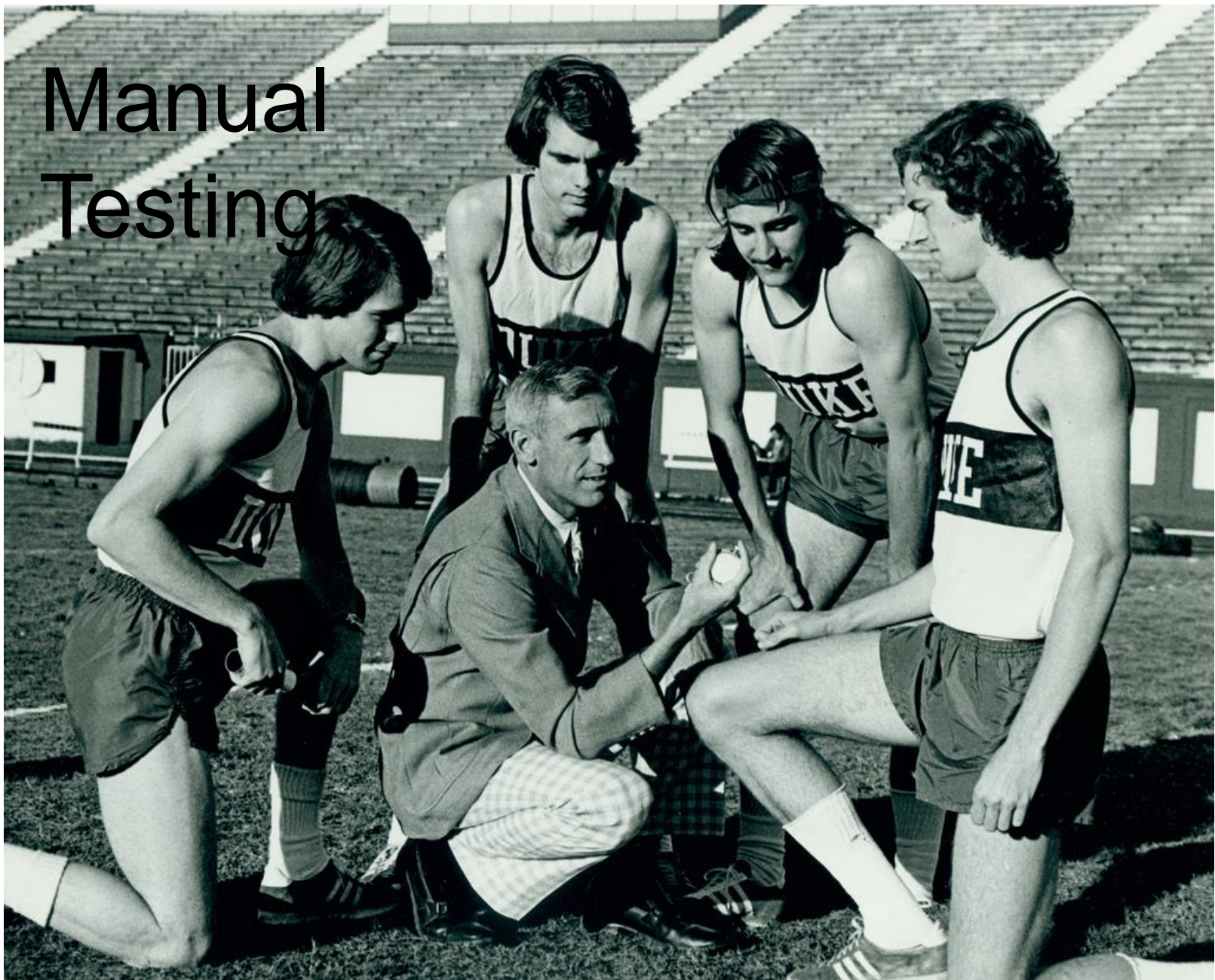
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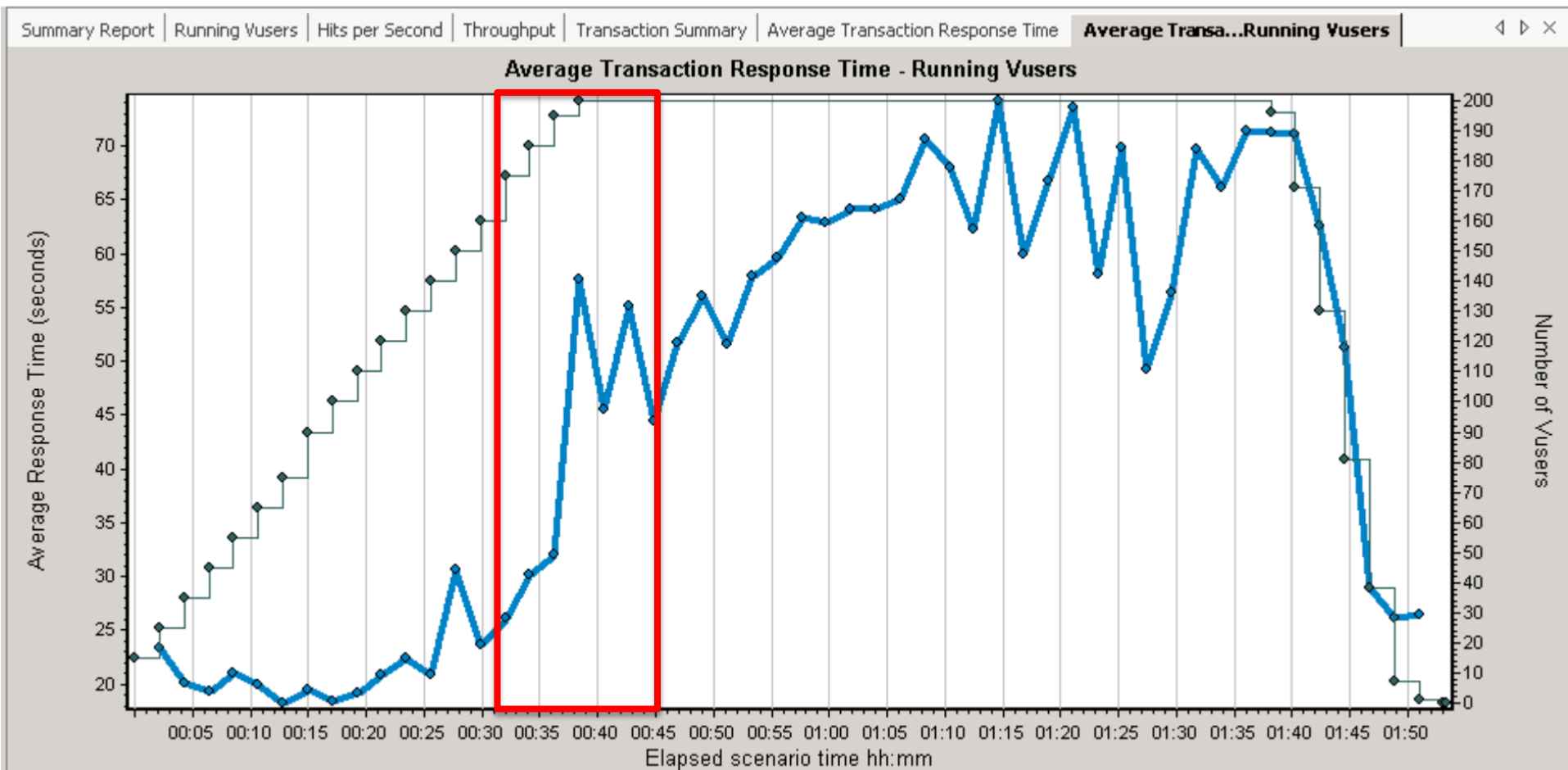
Your IT project faces a variety of dangers

Manual Testing

Manual Underestimates Load

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The Danger of Unknown Load

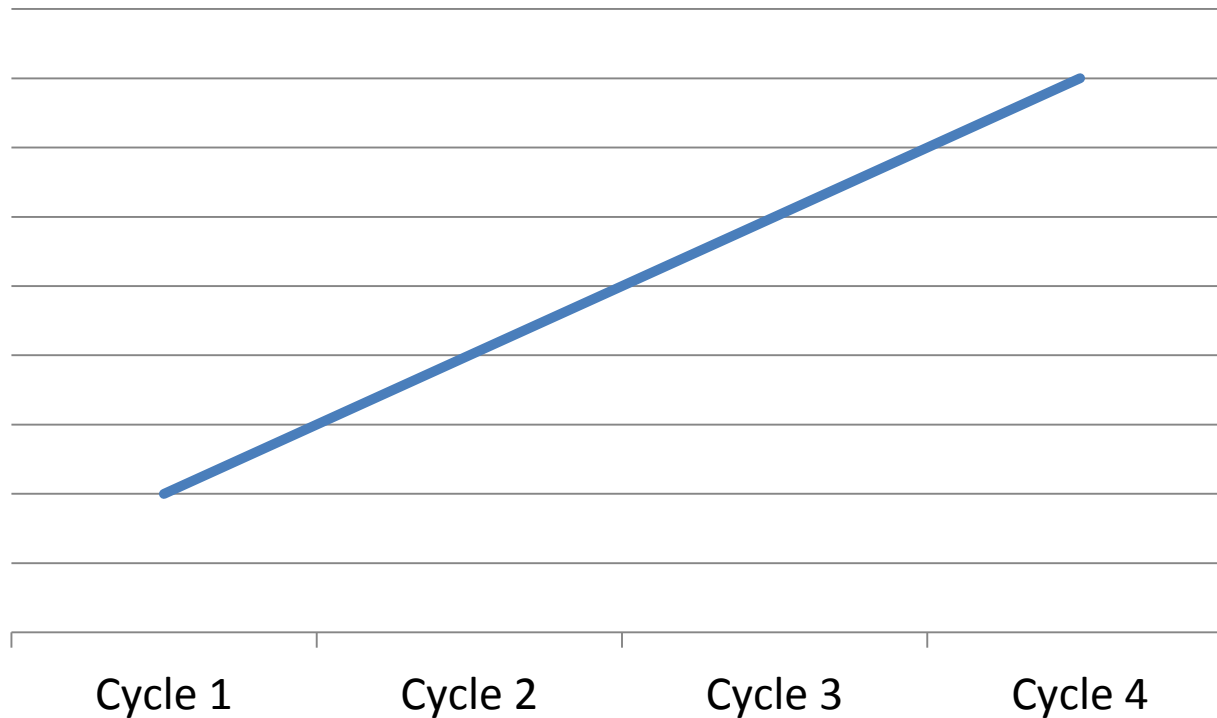# Manual Provides Low Coverage

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Manual is Qualitative

Manual Testing Does Not Scale

Total Effort After Each Test

| Cycle 1 | Cycle 2 | Cycle 3 | Cycle 4 |

Automatic Emulates Load

And Can Expand It

Automatic Provides Coverage

...QTD8TXV	ENTITY	1ROWCOU...	/CPMB/SDATA
E1610	CONSO	492	200,326,489.67084...
E1610	CONSO	366	112,735,792.75692...
A1810	CONSO	327	54,820,074.763850...
A181OC	CONSO	279	45,298,600.000000...
A1810	CONSO	273	70,152,788.784690...
XA1310	CONSO	262	16,682,152.830161...
A1310	CONSO	254	17,155,812.463768...
A181HC	CONSO	236	45,194,600.000000...
A1810	S000	234	2,863,189,459.200...

Automatic Scales

Total Effort After Each Test

Today's Demo

Determine the Data Process to be tested	→	Create a **"Virtual User"**

↓

Define our load test	←	Update our Virtual User to ensure data coverage

↓

Run our load test	→	Analyze our Results
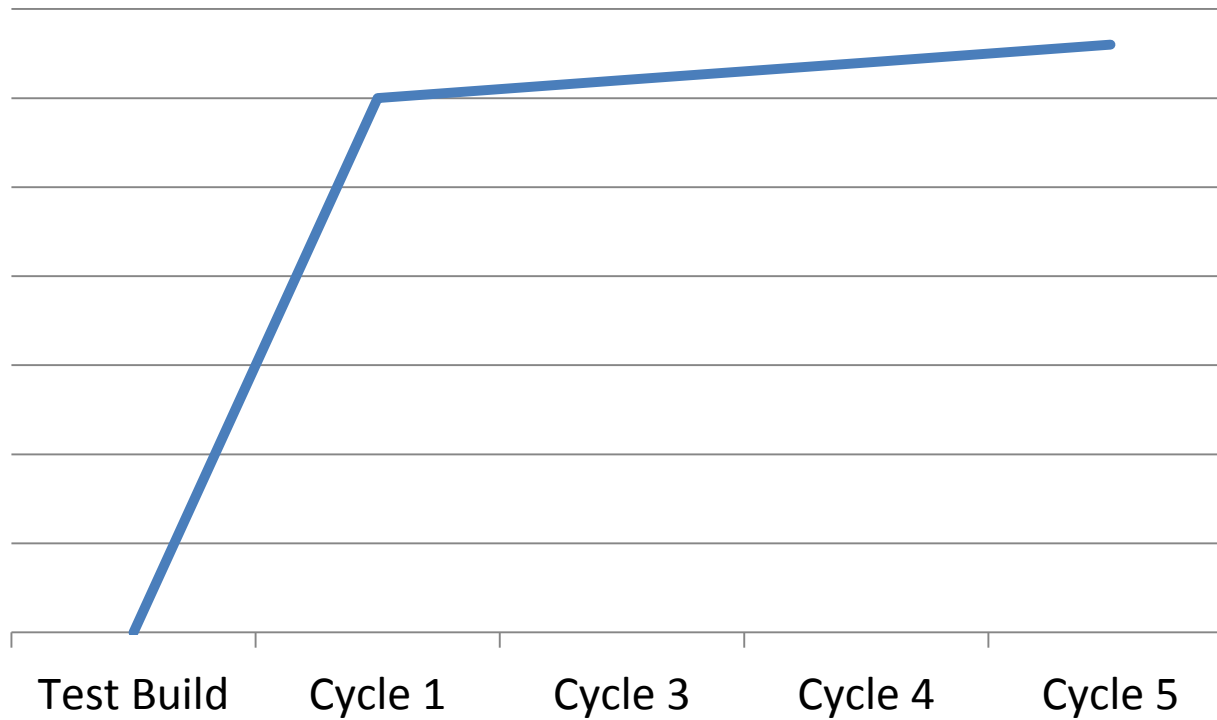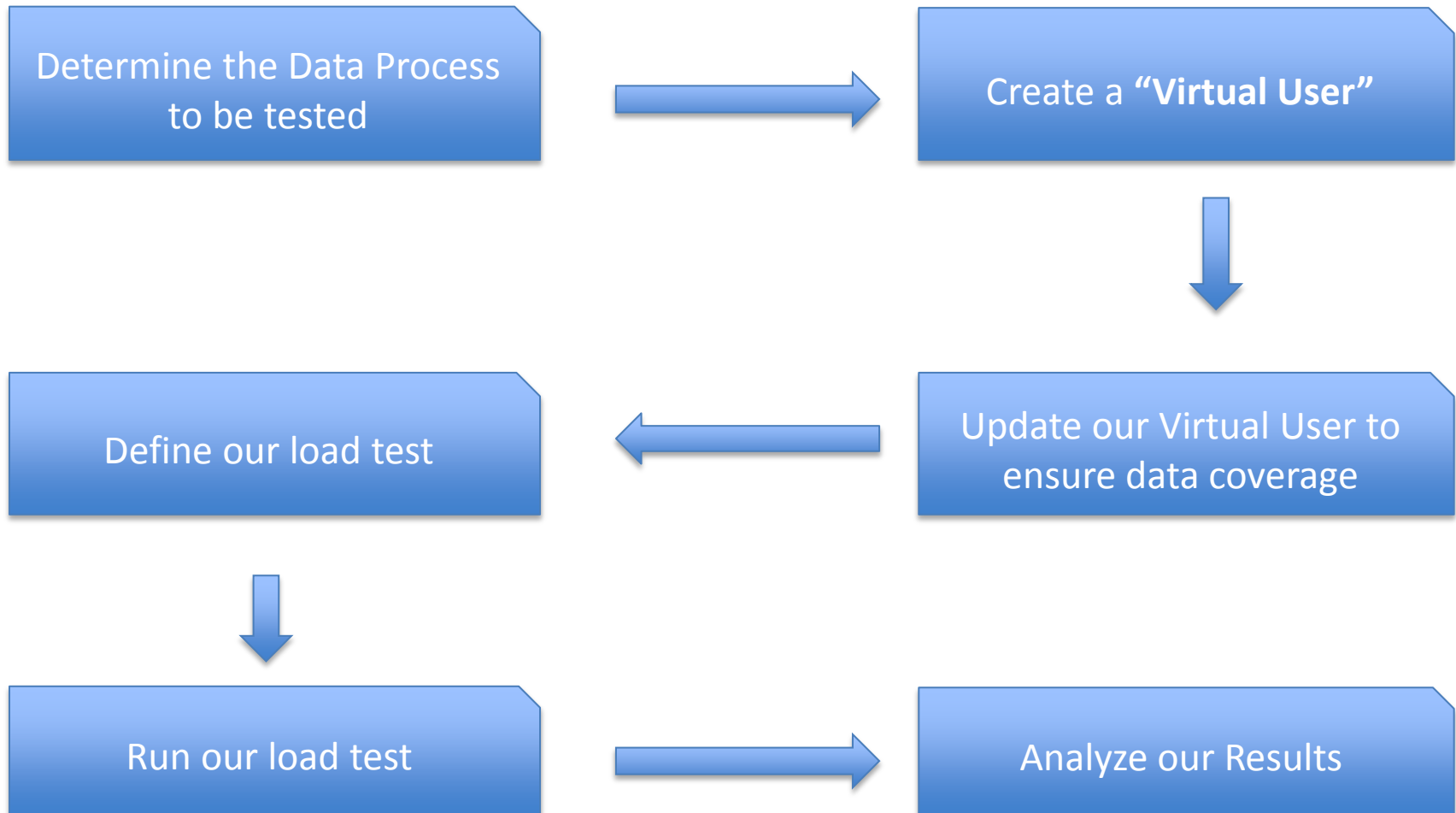
Our Friend Fiddler

- Free to use software
- Allows investigation of web traffic
- Available at http://fiddler2.com

Parameterization
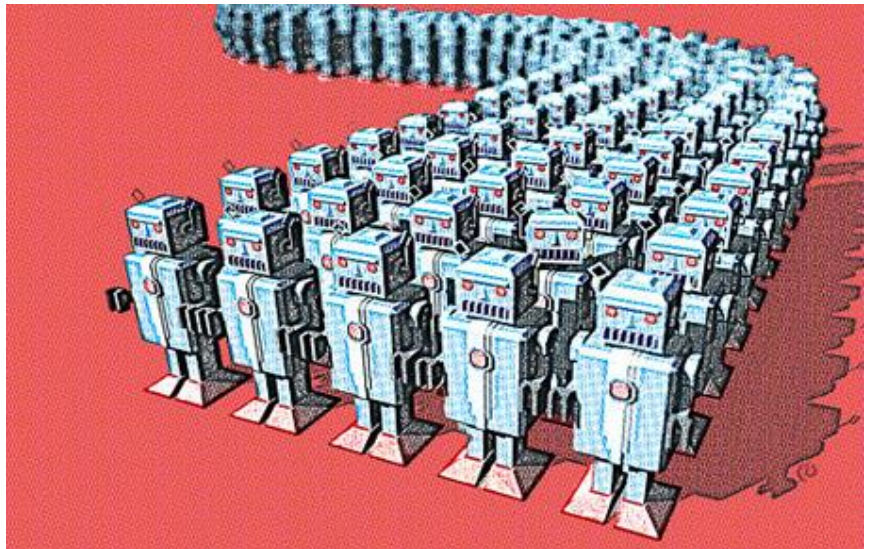
Resources

- Alternatives
  - Jmeter - http://jmeter.apache.org/
  - Jenkins - https://jenkins-ci.org/
  - Custom Load Testing Software
- Links
  - BPC Load Runner Toolkit - http://scn.sap.com/docs/DOC-25732
  - HP LoadRunner Demo - http://www8.hp.com/us/en/software-solutions/software.html?compURI=1175451

Testing Types

Test	Used to Determine
Load	System performance under expected load
Stress	Upper limit of system capacity
Endurance (Soak)	If the system can continuously handle the expected load
Spike	System response to a sudden load increase