

# Case Study: E-commerce Load Testing using Redline13



# Background

**Macpac Wilderness Equipment** is a brand specialising in outdoor recreational equipment. It is best known for camping and travel equipment including backpacks, sleeping bags and technical clothing.

Macpac was originally a New Zealand company, but is now 90% owned by the Australian firm Champ Ventures (since January 2016), with Alex Brandon as CEO.

Macpac was founded by Bruce McIntyre in 1973

# Tools

JMeter – Open source tool to prepare the business scenarios script

Redline 13 – We choose the Redline 13 because of its abilities to test from multiple IP within distributed network to accomplish our performance testing goals.

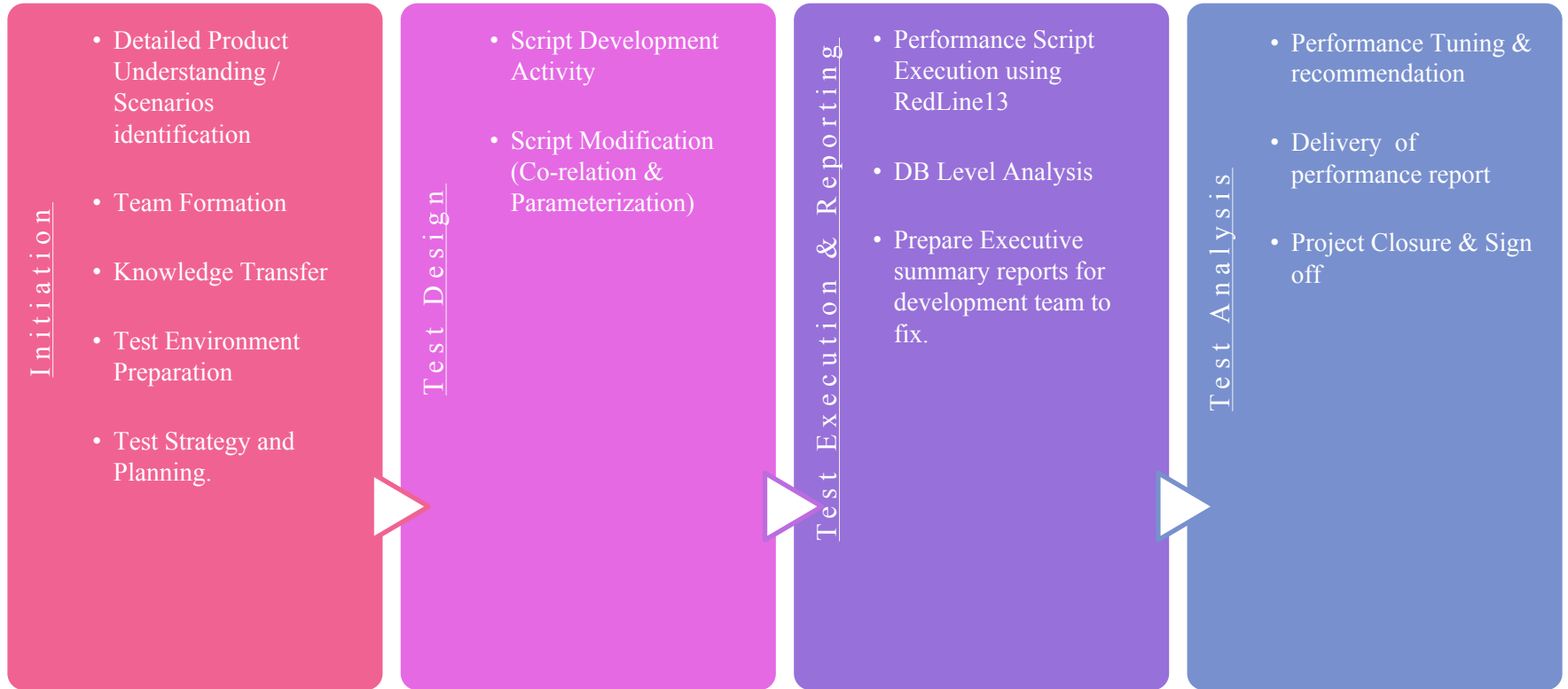
DB Monitoring – It was performed by Salesforce team internally.

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# Business Objective

- Primary objective of the engagement was to develop load testing framework
- Secondary objective of performance testing was to identify performance bottlenecks and scalability of different transactions.
- Certifies if the application is capable to scale and sustain as per the expected load of users.
- Identify the slowest API services & DB queries

# Our Approach



# Value Delivered/outcome

- Identified Top 5 priority issue
  - Minimize redirect
  - Minify JavaScript
  - Optimize images
  - Leverage browser caching
  - Avoid landing page redirect
- All the performance test has been executed in the Pre-production environment.
- Simultaneously user load benchmark was 3000 users
- Concurrent user load benchmark was 300 users
- Server errors was identified on above 3500 Users load.
  - Unauthorized", "error"
  - "Internal Server Error", "error": "
  - Bad Gateway", "error": "

# Our Valued Partner

For more details visit :

<https://www.redline13.com/Plans?partner=kiwi>



# Client Feedback

Thank you for your services in load testing

*Mark Jaggard , Director of Digital Solution*