13.2 AppStore Performance Test Plan

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Overview,

This document outlines the load test related information for AppStore. It includes AppStore functionalities, PSR requirements, test scenarios and cases. This test plan focuses on E2E testing. Destructive or negative test is NOT included.

# Objectives

* Provide some information about many concurrent VUs can one instance handle and where the bottleneck is when it hits its maximum capacity.
* Verify there is no obvious performance degradation when the load reaches 80% of its maximum capacity.
* Verify the application can be up long enough when it’s running under a load of 80% of its maximum capacity.

# How AppStore Works

AppStore contains 3 standalone ADF applications: Marketplace, Admin App and Partner App.

Below is a feature list for each ADF applications:

1. Marketplace: Marketplace provides anonymous access to all users. User can browse /search applications being published to market, write/view application reviews and providers details. User is required to sign-on by using Oracle SSO account before placing an purchase order for the APP.
2. Admin App: Provides functionalities for admin users to manage applications, partners, review abuses, leads, categories and other system settings.
3. Partner App: Provides functionalities for partner users to manage partner profiles, applications and leads.

In production, Marketplace is deployed in one WLS domain. Partner, Admin apps (both Partner and Admin app are together in one JVM) in another WebLogic domain.

Architecture graph TBD. (This section needs to be updated when we successfully deployed AppStore in our lab environment)

Questions,

1. How many clusters in production?
2. How many servers per cluster for each application?

Web Browser

Web Browser

Web Browser

Web Browser

Load Balancer Routers???

OHS??(AppStore, Cloud Portal)

3000 connections max

OHS??

RAC DataBase for APPSTOREDS

# PSR Requirements

Marketplace should be able to handle 1000 concurrent users per managed server. 90% of the users’ navigation should be handled within 4 seconds.

Admin and Partner App(on the same domain) should be able to handle 10 Admin concurrent users and 50 Partner concurrent users.

# Server Configurations

1. OHS:

Version 2.2.22

1. WebLogic(10.3.6.0) Configuration:

Marketplace:

|  |  |
| --- | --- |
| JVM Memory | -Xms8g –Xmx8g |
| JBO Settings | -Djbo.doconnectionpooling=true |
| Data Source Configuration | Initial Capacity: 100  Maximum Capacity: 350  Minimum Capacity: 100  ‘Connection Retry Frequency’ to 60 |
| Session Timeout | 10 min |

Admin App and Partner App:

|  |  |
| --- | --- |
| JVM Memory | -Xms8g –Xmx8g |
| JBO Settings | none |
| Data Source Configuration | Initial Capacity: 10  Maximum Capacity: 50  Minimum Capacity: 5  ‘Connection Retry Frequency’ to 60 |
| Session Timeout | 10 min |

1. Database: (RAC in production, same database with Cloud Portal???)

Oracle Database 11g Enterprise Edition Release 11.2.0.3.0 - 64bit Production

PL/SQL Release 11.2.0.3.0 - Production

"CORE 11.2.0.3.0 Production"

TNS for Linux: Version 11.2.0.3.0 - Production

NLSRTL Version 11.2.0.3.0 - Production

# Test Scenarios

There are different test scenarios for Marketplace, Admin App and Partner App. As the marketplace is for public access, it should be able to handle 1000 concurrent VUs.

## Marketplace

Marketplace is allowed for public access so it should be able to handle high concurrent users.

|  |  |
| --- | --- |
| Setting | Value |
| Max VU Number | 1000 |
| Think Time Delay between page navigations | 15-45 seconds |
| Iteration Delay | 30 seconds |
| Iteration End Condition | 24 Hours |
| Mock Data | 1000+ applications for marketplace in 5 categories and 5 partners. |

## Admin App

|  |  |
| --- | --- |
| Setting | Value |
| Max VU Number | 10 |
| Think Time Delay between page navigations | 15-45 seconds |
| Iteration Delay | 30 seconds |
| Iteration End Condition | 24 Hours |
| Mock Data | 1000+ Applications , 50-60 partners. |

## Partner App

|  |  |
| --- | --- |
| Setting | Value |
| Max VU Number | 50 |
| Think Time Delay between page navigations | 15-45 seconds |
| Iteration Delay | 30 seconds |
| Iteration End Condition | 24 Hours |
| Mock data | ?? (1000?)Leads for the partner under test. |

# Test Cases

Test cases are described in the form of single-user activities. During load test, there will be multiple VU who are doing the same operations. The number of VU depends on the number being described in section ‘Test Scenarios’.

## Marketplace

|  |  |  |
| --- | --- | --- |
| # | Step | Comments |
| 1 | Navigate to Marketplace home page. |  |
| 2 | Click ‘Sales’ on left hand categories list. |  |
| 3 | Input a search keyword and click search button. |  |
| 4 | Navigate to next page. |  |
| 5 | Repeat step #4 until it arrives on last page. |  |
| 6 | Select the first application on last page to view the details of selected APP. |  |
| 7 | Click ‘Ratings’ tab to view the reviews of selected APP. |  |
| 8 | Click ‘Provider’ tab to view the provider info of selected APP. |  |
| 9 | Click ‘Get APP’ button and sign-on by using SSO account. |  |
| 10 | Fill required data after successful sign-on and submit the ‘Get APP’ form. |  |
| 11 | Sign-off and close the browser. |  |

## Admin App

|  |  |  |  |
| --- | --- | --- | --- |
| # | Area | Step | Comments |
| 1.1 | Applications | Navigate to Admin APP home page and sign-in. |  |
| 1.2 | Applications | (Default landing page is Applications page)Search applications by: status =‘reviewing’ and a unique application name. |  |
| 1.3 | Applications | Click ‘View Details’ link on first search result then close the popup dialog. |  |
| 1.4 | Applications | Click - Change Status link of searched application (1st selection) |  |
| 1.5 | Applications | In popup dialog, change status to ‘approved’ and click button ‘OK’. |  |
| 1.6 | Applications | Search applications by selecting option ‘approved’ in filter ‘status’ |  |
| 1.7 | Applications | In popup dialog, change status to ‘reviewing’ and click button ‘OK’. |  |
| 2.1 | Partners | Click ‘Partners’ on left hand menu. |  |
| 2.2 | Partners | Search partner by: status=’Approved’ and a unique partner name. |  |
| 2.3 | Partners | Click ‘View Details’ link on first search result then close the popup dialog. |  |
| 2.4 | Partners | Click ‘Change Status’ on first search result and change partner status to ‘suspended’ then click ‘OK’ |  |
| 2.5 | Partners | Search partners by: status = ‘Suspended’ and the unique partner name. |  |
| 2.6 | Partners | Click ‘Change Status’ on first search result and change partner status to ‘approved’ then click ‘OK’. |  |
| 3 | Abuses | TBD (figure out how add mock data for abuses) |  |
| 4.1 | Leads | Click ‘Leads’ on left hand menu. |  |
| 4.2 | Leads | Search ‘Leads’ by a unique application name. |  |
| 5.1 | Categories | Click ‘Categories’ on left hand menu. |  |
| 5.2 | Categories | Expand the first node then collapse the first node. |  |
| 5.3 | Categories | Click ‘Add Subcategory’ then close the dialog |  |
| 5.3 | Categories | Click ‘Edit’ then close the popup dialog. |  |
| 5.4 | Categories | Click ‘Sequence” then close the popup dialog. |  |
| 6.1 | Users | Click ‘Users’ link on left hand menu. |  |
| 7.1 | Search Settings | Click ‘Search Settings’ link on left hand menu. |  |
| 8.1 | Settings | Click ‘Settings’ on left hand menu. |  |

## Partner App

|  |  |  |  |
| --- | --- | --- | --- |
| # | Area | Step | Comments |
| 1.1 | My Profile | Navigate to Partner home page and sign-in. |  |
| 1.2 | My Profile | Select default partner, click ‘Edit’ link then click ‘submit’ button on the popup dialog. |  |
| 2.1 | Manage App | Click ‘Manage App’ link on left hand menu. |  |
| 2.2 | Manage App | Select 'Started' tab. |  |
| 2.3 | Manage App | Select 'Published' tab. |  |
| 2.4 | Manage App | Selected 'Submitted' tab |  |
| 2.5 | Manage App | Click ‘Edit’ on first application to view Application Detail-> Basic Info. |  |
| 2.6 | Manage App | Click next to view Application Detail - Details |  |
| 2.7 | Manage App | Click next to view Application Detail - Media Related |  |
| 2.8 | Manage App | Click next to view Application Detail - Support |  |
| 2.9 | Manage App | Click next to view Application Detail - Preview |  |
| 2.10 | Manage App | Click 'Back To List' to return |  |
| 3.1 | View Archived App | Click ‘View Archived App’ on left hand menu. |  |
| 4.1 | Leads Management | Click ‘Leads Management’ link on left hand menu. |  |
| 4.2 | Leads Management | Change search filter status to ‘New Status’ |  |
| 4.3 | Leads Management | Click ‘View Notes’ on first lead. |  |
| 4.4 | Leads Management | Change first lead to status ‘Contacted’ |  |
| 4.5 | Leads Management | Change search filter status to ‘Contacted Status’ |  |
| 4.6 | Leads Management | Change first lead to status ‘Purchased’ |  |
| 4.7 | Leads Management | Change search filter status to ‘Purchased Status’ |  |
| 4.8 | Leads Management | Change first lead to status ‘Delivered |  |
| 4.9 | Leads Management | Change search filter status to ‘Delivered Status’ |  |