

CA supporting cross-functional teams have conducted a root cause analysis on the event reported. This report captures the findings and provides an insight into:

- Causes that contributed to the recent event observed.
- Corrective actions taken by CA Operations / Engineering team to remediate.

Summary

Product/Service Impacted	Rally (Agile Central)	Incident ID Number	N/A
Type of Outage	<input checked="" type="checkbox"/> Unplanned Outage <input type="checkbox"/> Performance Degradation <input type="checkbox"/> Other	Time detected	2019-04-24 06:45 MDT
		Time resolved	2019-04-24 13:20 MDT
Affected Components and/or Applications	User Interface, Search		
Impact to Customer	Application loading slowly or not at all, search unavailable		

Root Cause Analysis

<input checked="" type="checkbox"/> Application	Multiple: 1. A virtual IP (VIP) on the PaaS began flapping between hosts. 2. Cloudflare issues. Their root cause analysis as follows: a. On 24th April 2019 at 08:12 UTC, Cloudflare engineers deployed a previously tested change to the load-balancing system in the Newark, NJ location and continued to monitor its effect. The change was successfully deployed and no adverse effects were observed however after approximately 7 hours, Cloudflare received reports from customers that connectivity problems were being experienced in the region being served by this facility. Reports were of connection resets / timeouts which were escalated to our SRE team who acted immediately to revert the effects of applying the change. This reversion took place at 15:25 UTC. Following the reversion of the change, the effects of the connectivity issue were resolved and traffic was able to be processed as usual. 3. Search service backed up which caused a restart of that service. This results in search issues while the cluster rebuilds, which can take a few hours.
<input type="checkbox"/> Database	
<input type="checkbox"/> Hardware	
<input checked="" type="checkbox"/> Network	
<input type="checkbox"/> Product Defect	
<input checked="" type="checkbox"/> Third Party/Vendor	
<input type="checkbox"/> Configuration/Process	
<input type="checkbox"/> Other	

Recovery Details

Redeployed VIPs, restarted related services and app servers

Immediate Mitigation Steps

<input type="checkbox"/> Replaced Hardware	The following immediate mitigation steps were taken: 1. Redeployed VIPs 2. Restarted routers 3. Restarted search service 4. Rolling restart of all application servers
<input type="checkbox"/> Configuration Changes	
<input type="checkbox"/> Procedural Changes	
<input checked="" type="checkbox"/> Other	

Long Term Preventative Measures

<input checked="" type="checkbox"/> Architecture/Infrastructure Change	1. Look into disabling DRS or switching from VMotion to cold migrations 2. Create a checklist and/or some way to get notifications about status of 3rd party providers and automate the alerts created.
<input type="checkbox"/> Product/Feature Enhancement	
<input type="checkbox"/> Procedure/Process Changes	

<input checked="" type="checkbox"/>	Monitoring/Alerting Change	
<input type="checkbox"/>	Other	
<input type="checkbox"/>	N/A	