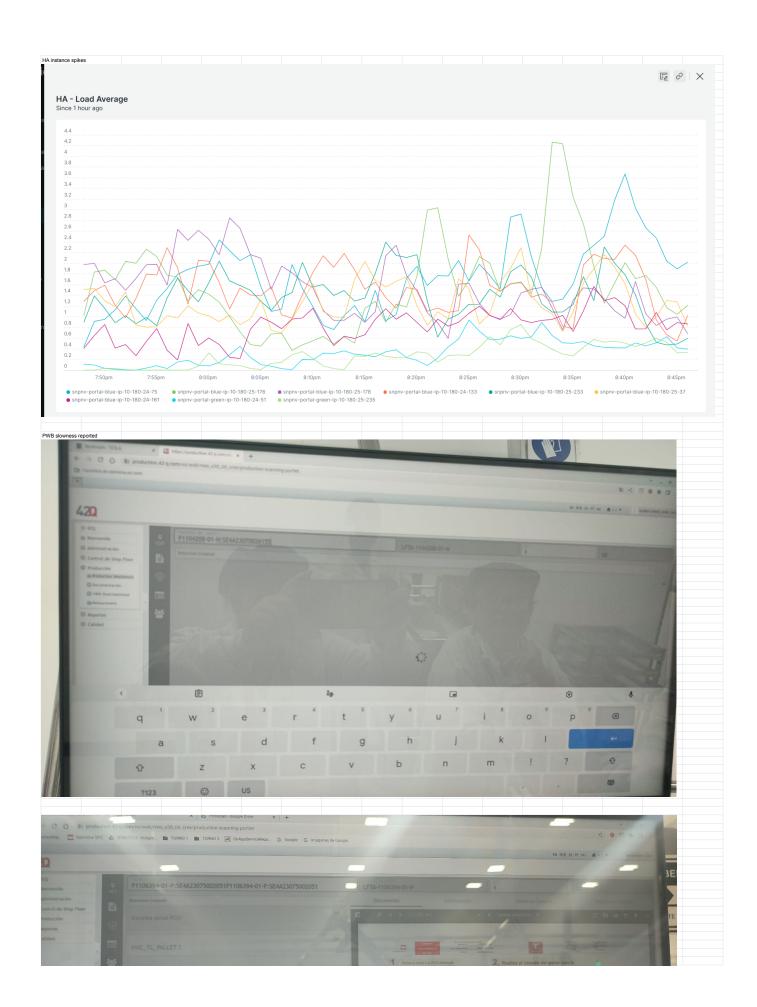
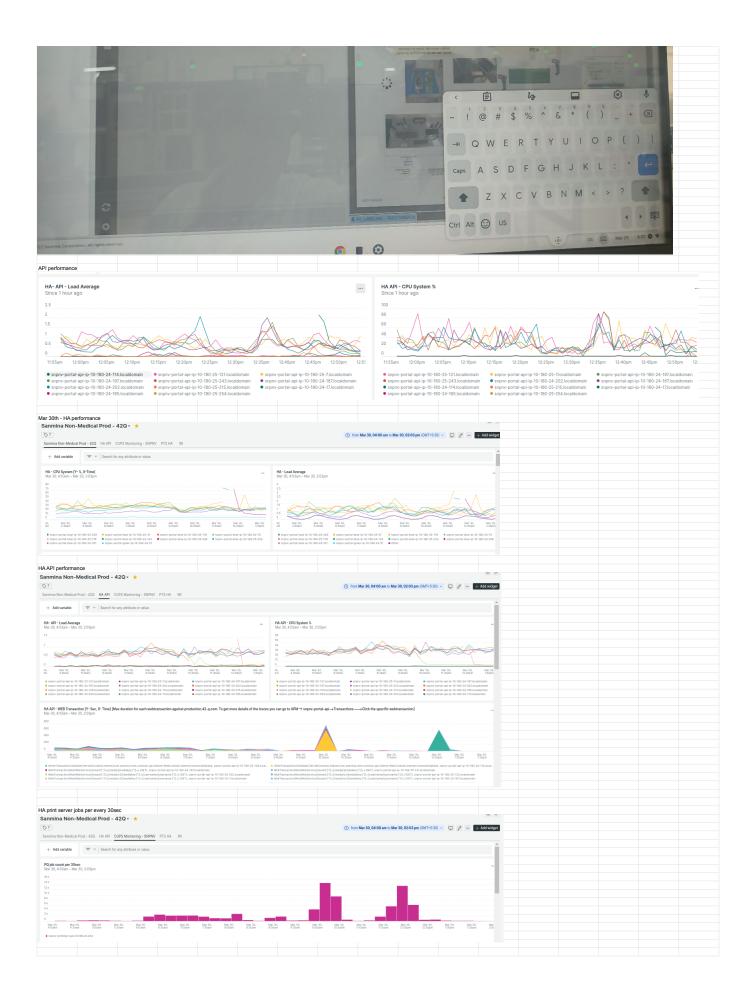
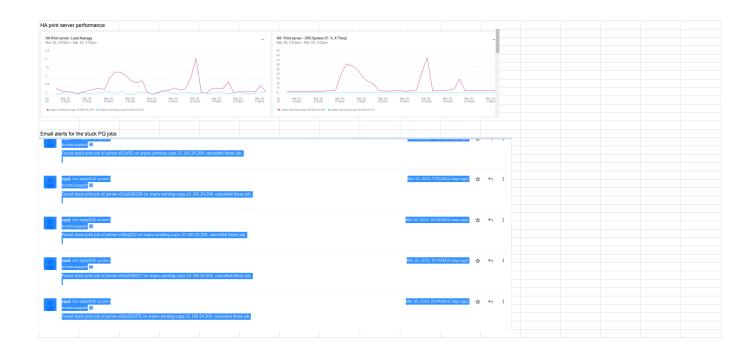
			Root	t Cause Analysis 420				
Event's date:	Mar 30t	h 2023	Title:	PWB Slowness and unable to print labels	Event Description			
Event Des	cription	Label pri	nting issue obs	erved and Production workbench appeared to be slow and it took more s unable to proceed scanning any serials	This section provides a description of the event that is being analyzed. It provides a clear and concise description of the problem that triggered this Root Cause			
	SR	Plant	Priority	Impact	Analysis. It should state the date, time, detailed description of the event/problem, who detected the problem, who it affected, and how it affected them. It is important that the descriptions are as detailed as possible since this problem is the source of the entire RCA.			
	5380152	E51	P2	PWB slowness observed and units unable to be scanned for Arista Customer in e51 Plant also problem observed while printing labels.				
	\$380303 \$380303	K03	P2	PWB slow in processing and printing stuck				
	\$380169 \$380344	E30	P2 P2	Delay in response from PWS while scanning the serials All labels from MDS and LE labels are unable to print in e90_55_hpas site				
	5380344	190	1/2					
Impact					Impet			
impact	Plants like ES1, unable to print i	KOD & E30 rej sbels	ported production wor	Scherch slowness and it impacted productivity of the plant. Additionally Plants ES1, KID & END were	This section prevides a description of the symptom that users faced during the outage including the estimated downtime.			
Known po	ssible car	ises			Known Possible Causes			
	Team confi	rmed with:	Possi	ble Cause	This section provides a description of other system issues that could cause the			
					ACTIONS for each in order to minus the risk of face this problem in the future.			
			•					
Corrective	/ Contain	Status	tions (short	term) Action	Corrective Action			
	Date	Status	1. First occurance.	there are few stuck print jobs cancelled automatically by the spript. Autospaling also replaced bad HA				
	2023-03-30	Closed	instance and API in 2. Second occuran	whence on. We had a bunch of printing pools trippered by one of the SR2 printer via SFDC portiet. The printer				
			was not reachable. and also removed t	We had to cancel the stuck job and then kill one of the bad HA instance which was triggering the call the printer from the LE admin.	As the purpose of the Root Cause Analysis is to determine the root cause of a problem, it should result in some corrective actions that may be taken to ensure the same problem is not repeated. These actions are the ones taken in order to			
					temporarily miligate the issue while final corrective actions are completed and implimented.			
		-	-					
Root Caus					Presention Action			
Root Caus	se				Preventive Action			
	issues more that	n thrice onthe	same day. We had Si	is ame day, Upon on checking IN Am APP Instance with splass and the pint server had performance (Chip de quautic gain in them the pint server securious silization politicases. While had print instance caused the performance issue in the PVMC, mee-spland print (quival-) pick are not critical but user keyst send repeated pibs. Lizer we had spool of request triggered from on the IAA are not critical but user keyst send repeated pibs. Lizer we had spool of request triggered from on the IAA are considered to serve keyst send repeated pibs.	Once investigation is completed, in this section the final root cause(s) of the lease must be lieted.			
Preventiv	e Actions	(medium :	and long term)		Preventive Action			
	Date	Jira	Status	Action Shance the prints monitoring script to cancel all the print lobs for the specific printer if the printer is				
	2023-03-30	TRO	Open	unreachable. This will reduce the load against number of request spooled by the client. Review the print queue server performance or any improvement in opening.	Actions defined to be taken as a fix for the root cause and in order to prevent new incidences of the particular problem faced. Could be taken in medium and long term. Often, these corrective actions will result in changes to a project's scope, schedule,			
	2023703730	-	Open	Never the birst dates server becommend or and improvement in obserbo	or cost. It is imperative that all of the findings and preventive actions are detailed and formally communicated with the project team so changes can go through the change management process and be implemented in the project plan upon approval.			
		_	1					
Investigat	ive Team				Investigative Team and Method			
Team	Men	ber		Role				
Mes Support Mes Support	Shimey Liu Ramesh Pichair	nuthu	MES Supervisor MES Supervisor		This section of the Root Cause Analysis should describe how the investigative team is assembled, who it consists of, and how			
					It gashes the data to be used in the analysis. As with any process, it is important in the RCA that clear roles and mixture be established in order to allow for the process to move in a controlled and deliberate manner. This is also an important part of the RCA because a mander of time sent in PCA is carefrend each allow the PCA is carefred and deliberate manner. This is also an important part of the RCA because a mander of time sent in PCA is carefred each all south the ventor roller or the PCA is carefred and also also the ventor roller.			
					are not oppose a capital to the special notes a gardening was about the event-photoses.			
Chronolog		ts/Timel	ine					
Date	Time (US Central)			Event				
2023-03-29	10:37 PM	ES1 Plant re	ported they are havin	ig issues with PWR for Arista Customer by creating the SR				
2023-03-29	11:06 PM		ported they share the		Chronology of Events/Timeline			
2023-03-29	11:39 PM 12:15 AM			is in stations PWB and test equipment for the stoc p3449dc/to and the conduit service was restared by MES support team				
2023-03-30 2023-03-30	12:17 AM	All Plant con	firmed it working ok		In this section of the Root Casue Analysis you are to provide a detailed chronology of the events leading up to,			
2023-03-30	12:20 AM 12:52 AM	E90 plant re	ported the issue with ain reported issues w	MDS & LE label printing process	and following, the problem. This is an important piece of the RCA as the chronology of events may lead to class in determining how or why the problem occurred. Be sure to include names, times and detailed			
2023-03-30	1:12 AM	Additionally i	KIDD and ES1 plant re	ported issue with tabel printing as well	descriptions of all activities.			
2023-03-30	1:16 AM 1:29 AM			nters, MEG support cancelled it				
2023-03-30	1:49 AM	Found stuck	print jobs for ES1, KO	23 & other plant's like ES1 's printers, MES support cancelled all those stuck jobs				
2023-03-30	2:36 AM	K00 & E51 c	onfirmed the product	ion lines back normal without any issues in PMIQ and printing process.				
Findings	(modernoon)	and has be	amounted take.		Findings			
rmumgs	(wyldences ci	and de in se	pow asso racs)		renerge			
	See the aborhoment				This part of the Stout Cause Analysis should describe the findings of the investigation and organin the root cause) loses or have findings. It is possible that it SCA result in findings that are cut may related by the control of the stouth of the control of the through the producing cut is imported to the find the stouth of control of the stouth the control of the stouth of the stouth of the stouth of the stouth o			
	1							







Problem	The
Conclusion	Issue happened

	1st Why	2nd Why	3rd Why	4th Why	5th Why	Actions per case:	Type of action
		Q: Why? A: The	Q: Why? A: The	Q: Why? A: The	Q: Why? A: The		Select an option
	Q: Why? A: The		Select an option				
Possible		Q: Why? A: The	Q: Why? A: The	Q: Why? A: The	Q: Why? A: The		Select an option
reasons		Q: Why? A: The	Q: Why? A: The	Q: Why? A: The	Q: Why? A: The		Select an option
	A: The	Q: Why? A: The	Q: Why? A: The	Q: Why? A: The	Q: Why? A: The		Select an option
	Q: Why? A: The		Select an option				

Instructions:

- The first question must be created based on what the symptom the final users are facing.
 Each case could have possible causes, but we must focus on and go deeper investigating the things that made 42Q systems to have not correct behavior. Also consider that during the analysis some preventive actions could be found.
 Highlight in GREEN corrective action and roct cause identified for this incedent.
 Harn, highlight in YELLOW, preventive actions found. These could be root causes in the future.
 Add as many possible reasons and WHYs if needed until root cause is identified.

Check below example as reference of a real case.

	EXAMPLE
Problem	Multiple 42Q features not available
Conclusion	DNS server unavailable in Hunstville. This caused that MES servers in AWS could not be reached by the SFDC PCs. We know that the main problem was power outage in HSV datacenter. BUT 42Q ROOT CAUSE was that SFDC PCS were not properly configured to use a DNS server in AWS as primary DNS instead of use a server in ground.

	1st Why	2nd Why	3rd Why	4th Why	5th Why	Actions per case:	Type of action
	Q: Why were multiple 42Q features not available? A: 42Q portal server was down.	Q: Why was 42Q portal server down? A: 42Q portal server was NOT down.	N/A	N/A	N/A	N/A	N/A
Dansible		Q: Why were AWS instances not reachable? A: There was a network issue in Hunstville data center.	Q: Why was a network issue in	Q: Why did DNS in HSV caused connectivity issues to AWS cloud instances?	Q: Why was Huntsville listed as primary or Primary and Secondary in many servers? A: There are 2 fast DNS servers in Huntsville. Manual changes were made to improve DNS performance but not changed in an optimal way.	Correct DNS configuration in the servers, to have configured different primary and secondary DNS servers	Preventive Action
Possible reasons	Q: Why were multiple 42Q features not available? A: Amazon instances were not reachable.		HSV datacenter? A. Power outage in HSV datacenter took down DNS servers.		Q: Why was Huntsville listed as primary or Primary and Secondary in many servers? A: It was not needed before for 420 servers to use a DNS server hosted in AWS.	Configure as primary DNS the AWS DNS server in all AWS instances	Corrective Action (root cause)
		Q: Why were AWS instances not reachable?	Q: Why is AWS tunnel down? A: AWS tunnel was not down.	N/A	N/A	N/A	N/A

Technical Root Cause Analysis summary

						<u> </u>		
	RCA document name: [Parent RCA name here & Link]			DATE OF EVENT:	Jan 12, 2019	PENDING actions:	0	
	RCA responsible person: [Support's team member name]			Type of downtime:	Select	WIP Actions:	0	
				Downtime (mins):		COMPLETED actions:	0	
ADDITIONAL INFO								
	TAKEN ACTIONS BY TEAM	Status	Last update	Type of action	Should this be applied to more servers?		Comments	
	MES DBA							
;	1st action	Please select	Jan 1, 2001	Please select	Please select			
	2nd action	Please select		Please select	Please select			
	3rd action	Please select		Please select	Please select			
2								
	Select a team							
	1st action	Please select		Please select	Please select			
	2nd action	Please select		Please select	Please select			
	3rd action	Please select		Please select	Please select			
	Select a team							
	1st action	Please select		Please select	Please select			
	2nd action	Please select		Please select	Please select			
	3rd action	Please select		Please select	Please select			
į.								
	Select a team							
	1st action	Please select		Please select	Please select			
	2nd action	Please select		Please select	Please select			
	3rd action	Please select		Please select	Please select			
	Select a team							
	1st action	Please select		Please select	Please select			
	2nd action	Please select		Please select	Please select			
	3rd action	Please select		Please select	Please select			
•	Calcat a trans							
· Ω	Select a team 1st action	Please select		Please select	Please select			
	2nd action	Please select		Please select	Please select			
		Please select		Please select	Please select			
	3rd action	r lease select		r-rease select	riease select			

In order to have in a quick look an idea about the RCA documents and where they are, please take a look at the below naming convetion.

RCA's Format name

RCA mm/dd/yyyy - Issue's description - Status suffix

Where:

RCA Fixed element to identify the type of document.

mm/dd/yyyy - Date of the first incidence of the event. US date format is MANDATORY.

Issue's description - Brief description of the issue.

Status suffix Current status of the issue and the team that needs to complete opened actions.

See below suffixes definition.

Example: RCA 05/30/2019 - Alfresco (fail to save) - WIP ENG

Status Suffix convention

WIP SUP: When RCA document is still being filled out by Support team.

WIP DEVOPS: Issue is partially solved but DEVOPS team still needs to apply some changes in

order to complete pending actions to solve the root cause.

WIP ENG: Issue is temporarily mitigated and Engineering team still working in final fix.

WIP MED: Issue is solved and containment actions applied but final solution deployment is

not medically released yet.

COMP: Issue is solved and there are no more actions opened assigned to any team.

TO DELPOY: Issue is solved, fix tested in UAT and it is pending to be deployed in production.