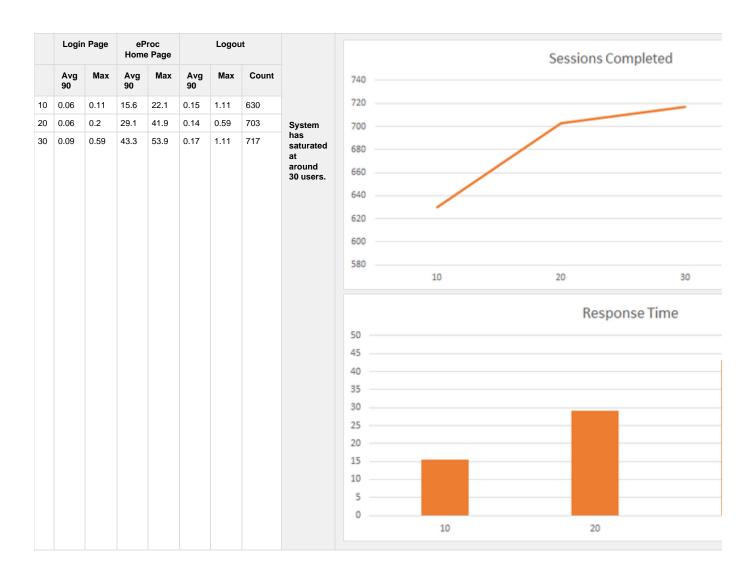
Dew Drops Eproc Result and Observation

CMD: API count on the basis of Client IP

30 users base Line Test Ran for 15 Minutes (no static calls)

	URL	Avg 90	Max
1	Login Page	0.09	0.59
2	eProc Home Page	43.3	53.9
3	Logout	0.17	1.11

Result comparison with 10/20/30 users: (No static pages)



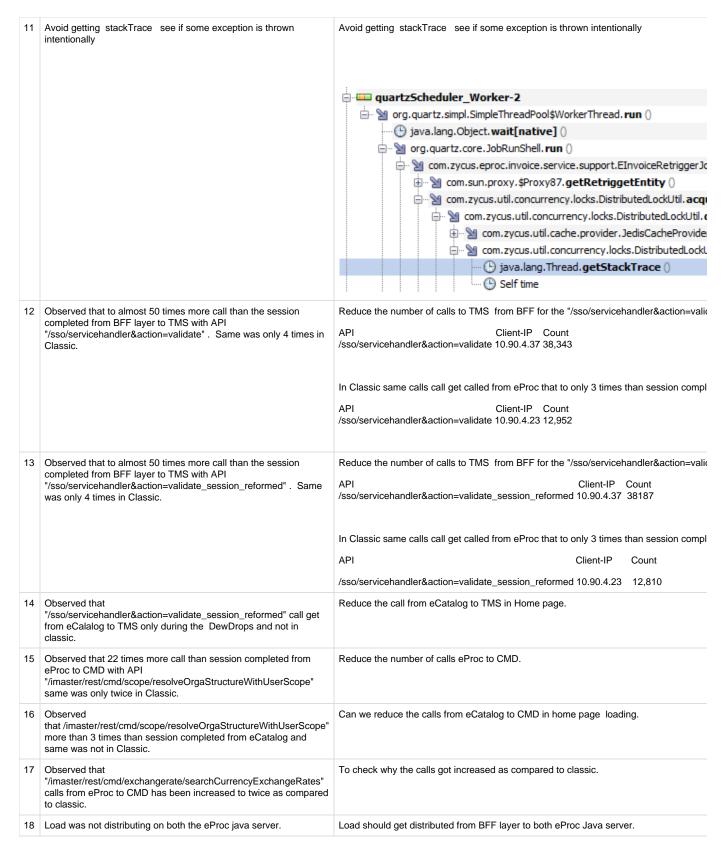
Response Time Data with Static Pages:

Load Generator	No Of Users	No Of Session Completed	Login Page	eProc Home Page	Logout Page
Generator	Users	Completed			

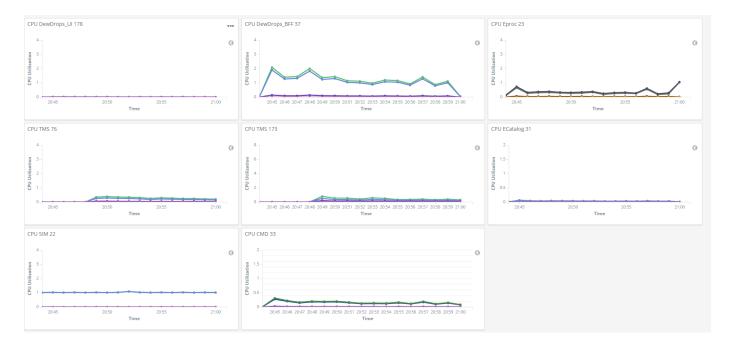
			Avg 90	Max	Avg 90	Max	Avg 90	Max
AWS	5	268	0.24(1.38)	30.1(4.04)	16.7(20.5)	42.6(43.5)	0.6(0.6)	0.17(0.17)
Local	5	171	0.15(1.91)	1.05(3.33)	14.4(25.1)	16.4(27.4)	0.14(0.14)	0.31(0.31)

	Issue	Recommendation
1	51 calls made to backed (Excluding static page calls).	Combine calls to the BFF layer.
		From BFF layer fan out the respective calls on underlying Java layer.Pattern in followin
		https://community.apigee.com/questions/28886/how-to-implement-concurrentparallel-ca
2	Multiple Call of https://ddeproclab.zycus.net/api/a/eproc/configs/ge tDetailsByLevel	Observed that around 9 calls of the same request body make this call as single call.
3	Fonts are served from internet "fonts.gstatic.com"	Fonts file to be served from Ngnix or CDN
4	Two Get calls during the login for:	'getScope' are making two call during the loading home page.
	"https://ddeproclab.zycus.net/api/a/eproc/users/\${userId}/getScope	This call is Get call only with same request.
5	Static contents is coming without gzip .	Static contents are not sent as gzip.
	High network bandwidth consumption.(Around 50 MBPS for 10 users)	
6	Data for the Tabs which are not directly visible like requisition/purchase Order / Punchouts etc should not request data on page load.	Make calls from not visible tabs only when user clicks on the tab.
7	GetAuthorizationContex two call making in single thread stack stack trace while doing the getRepresentation	it should happen only once refer the attached screen shot for more details.
8	getEprocSystemTenantConfig are coming from Redis	It is recommended to make it JVM cache.

9	Execute for describe taking time when fetching Requisition List	Investigation is in progress to avoid this .
9	Execute for describe taking time when fetching Requisition List	⊕ ''g com.xpus.eproc.dendrops.combale. Regulation of the company of the
		© 3 ande ybu driver. Or additive proved Statement Tillingerie executed query () © 3 ande ybu driver. Or additive provides them executed pure y) © 3 ande ybu driver. Or additive provides them executed themseld © 3 ande ybu driver. Or additive themseld the control of the statement of the stat
10	Make gson singleton	Make gson singleton Some and the state of



CPU Utilization:



Top API Response Time from eProc/TMS/CMD:

Eproc					
URL Name	50th Percentile	90th Percentile	95th Percentile	99th Percentile	Average
/eproc/soa-services/restapi/requisition/filter	16,276.83	19,792.24	20,887.17	23,035.92	15,567.44
/eproc/soa-services/restapi/purchaseOrder/filter	5,388.70	15,265.30	16,759	18,710.32	7,098.88
/eproc/soa-services/restapi/previouslyUsed/items/filter	438	1,157.77	1,402.70	1,953.86	584.298
/eproc/soa-services/restapi/category/filter	12.583	919.333	1,300.69	1,890.25	284.529
/eproc/soa-services/restapi/punchouts/filter	81.714	859.554	1,227.96	1,961.06	285.944
/ eproc/web/services/rest&method = master.components.currency.searchCurrencyExchangeRates	131.727	310.13	379.00	520.35	171.256

TMS						
URL name	50th Percentile	90th Percentile	95th Percentile	99th Percentile	Average	Count
/sso/tenant/userauthorization/getRoles	140.333	615.806	789.817	1,148	243.672	2,147
/sso/servicehandler	7.73	10	12	136.853	11.194	47,725
/sso/login	2	3	6	129.68	6.292	1,082

CMD							
URL name	50th Percentile	90th Percentile	95th Percentile	99th Percentile	Average	Count	Observation
/imaster/rest/cmd/scope/resolveOrgaStructureWithUserScope	17	72.051	148.804	273.444	34.683	11,139	This call are getting called multiple time so can we make this call as cache.
/imaster/rest/cmd/exchangerate/searchCurrencyExchangeRates	64.617	208.7	286.8	463.2	79.467	1,446	
/imaster/rest/cmd/category/searchCategories	19	92.4	140	263.96	36.566	1,384	
/imaster/rest/cmd/geography/getAddresses	6	11.15	36.533	234.62	14.876	1,432	
/imaster/rest/cmd/component/searchUOM	68.167	365.667	475.55	648.41	147.653	711	
/imaster/rest/cmd/component/searchCurrency	28	179.2	221.8	372.5	62.678	712	

CMD: API count on the basis of Client IP (Dew Drops) session Completed 730

API	Client-IP	Count
/imaster/rest/cmd/geography/getAddresses	BFF Layer	1,510
/imaster/rest/cmd/category/searchCategories	eProc Java Layer	1,487
/imaster/rest/cmd/component/searchCurrency	BFF Layer	764
/imaster/rest/cmd/component/searchUOM	BFF Layer	763
/imaster/rest/cmd/exchangerate/searchCurrencyExchangeRates	eProc Java server	1,528
/imaster/rest/cmd/scope/resolveOrgaStructureWithUserScope	eCatalog Java Server	2,234
/imaster/rest/cmd/scope/resolveOrgaStructureWithUserScope	eProc Java server	16,364

CMD: API count on the basis of Client IP (Classic)

session Completed 3907

API
/imaster/rest/cmd/accounting/searchAllowedCategoryGeneralLedge
/imaster/rest/cmd/category/getCategoryGroupTree
/imaster/rest/cmd/component/getCurrencyByCode
/imaster/rest/cmd/component/searchCurrency
/imaster/rest/cmd/component/searchUOM
/imaster/rest/cmd/costing/searchAllowedCostCenters
/imaster/rest/cmd/exchangerate/searchCurrencyExchangeRates
/imaster/rest/cmd/geography/getLocations
/imaster/rest/cmd/scope/resolveOrgaStructureWithUserScope
/imaster/rest/cmd/scope/searchAllowedMasterEntity

TMS: API count on the basis of Client IP (Dew Drops)

session Completed 730

API	Client-IP	Count
/sso/login	10.90.4.60	1,781
/sso/servicehandler&action=invalidate	BFF Layer	853
/sso/servicehandler&action=validate	BFF Layer	38,343
/sso/servicehandler&action=validate_session_reformed	BFF Layer	38,187
/sso/servicehandler&action=validate_session_reformed	eCatalog Java Server	884
/sso/servicehandler&action=validate_session_reformed	10.90.4.123	3
/sso/tenant/companyuser	BFF Layer	921
/sso/tenant/getUserByIdFromTMS	eProc Java Layer	1,349
/sso/tenant/getUserByIdFromTMS	eCatalog Java layer	870
/sso/tenant/getUserInstance	BFF Layer	905

TMS: API count on the basis of Client IP (Classic)

session Completed 3907

API	Client-IP	Со
/sso/login	10.90.4.60	8,64
/sso/servicehandler&action=validate	eProc Jav a Layer	12,9
/sso/servicehandler&action=validate_session_reformed	eProc Jav a Layer	12,8
/sso/tenant/abstractcompany	eProc Java Layer	4,29
/sso/tenant/company	eProc Java Layer	4,28
/sso/tenant/companyuser	eProc Java Layer	8,61
/sso/tenant/getUserByIdFromTMS	eProc Java Layer	4,30
/sso/tenant/getUserByIdFromTMS	eCatalog Java layer	18
/sso/tenant/getUserInstance	eProc Java Layer	12,9
/sso/tenant/user/	eProc Java Layer	8,59

/sso/tenant/userauthorization	eProc Java Layer	1,345	/sso/tenant/userauthorization	eProc Java Layer	8,60
/sso/tenant/userauthorization	eCatalog	883			
	Java layer				