ApplicationPerformanceMetrics

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| Projectname | Project-IoTbasedsafetygadgetforChildSafety MonitoringandNotification |
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Analyzeapplicationperformance:

Ihavecollectedafewimportantpiecesofinformationyouneedaboutan applicationyouanalyze;irrespectiveofthetypeofdeviceyoushouldknow these,

1.SupportforOperatingSystem.

2.BrowserCompatibility.

3.Sizeoftheapplication.

4.SecurityProtocol.

5.Thedeviceitisrunningon(Smartphones)

6.UserJourneys(Endtoend)

APMbmetric:

Applicationperformancemonitoring(APM)agentcollectsandcompiles keymetricsofyourapplicationandinfrastructurethatallowyourITorDevOps teamtoidentifyandresolvefunctionalityissuesbeforetheyhaveanegative impactonbusinessoutcomes.

Tomeasuresoftwaredeliveryperformance,moreandmoreorganizations aredefaultingtothefourkeymetricsasdefinedbytheDORAresearch program:changeleadtime,deploymentfrequency,meantimetorestore (MTTR)andchangefailpercentage.

Dataisthefuelthatpowersaneffectiveapplicationmonitoringand managementstrategy.Whenproperlycollected,managedandreviewed, applicationmetricstransform meaninglesschunksoftechnical informationintoacomprehensivenarrativethatrevealsthereliabilityof yoursystemandprovidesimportantcluesregardingtheoveralluser experience.

Applicationperformancemonitoring(APM)agentcollectsandcompiles keymetricsofyourapplicationandinfrastructurethatallowyourITor DevOpsteamtoidentifyandresolvefunctionalityissuesbeforetheyhave anegativeimpactonbusinessoutcomes.Someofthesemetricsare responsetimes,errorrate,throughput,etc.

Thekeytoapplicationmonitoringinvolvesdevelopingagreater understandingofyoursystemanditsusersbycollectingdatathatreveals ifappsarebehavingnormally,alertingifthereareanomalies,providing contextTabouthowfunctionalityissuesimpactbusinessoutcomes,and optimizingtheapplicationtopreventperformanceissues.

Keymetricstomonitor:

Theabundanceofdataavailablecanmakeapplicationperformance managementseem overwhelming.Knowing which application performancemetricstofocusonisessentialtofindinganAPMsolution thatworksforyourorganization.Thefollowingmetricsarecriticalto identifyingapplicationerrorsorsystemissues:

* Errorrates:Monitorhowoftenappperformancedegradesorfails.
* CPUusage:AssessCPUusage,memoryallocation,anddeskread/ writespeedstoevaluatetheeffectofusageonperformance.
* Responsetimes:Determinewhetherspeedisaffectinga

Applicationperformancebytrackingtheaverageresponse time.

* Requestrates:Measureyourapplicationtrafficincluding spikes,inactivity,ornumberofactiveusers.
* Uptime:Trackcompliancewithservicelevelagreementandassess overallreliability.
* Numberofinstances:Scaleautoscaling,basedonthenumberofapp orserverinstancesrunningatanyonetime.
* Garbagecollection:Improveperformancebyidentifyingand eliminatingtheproblemscausedbyheavymemoryuseinJavaor otherlanguagesthatuseGC.
* Customerexperience:Understandandimproveupontheuser experiencebyusingacombinationofApdexscoresandSLA thresholdstomeasurecustomertoleranceorsatisfaction.

