

7: Monitoring Framework

WHY THIS FRAMEWORK IS IMPORTANT			EXERCISE		
•	clusters and oscillating applications our Kubernetes environment healt			2 Hours	
This framewo	This framework focuses on tools for visualization, tracing,			Medium Difficulty	
and alerting. monitoring is QA, and etco	s if	*	Enterprise Architect Head of Operations Security Manager		
What solution	n is used to collect container logs?				
	Fluentd				
	Graylog				
	Loki				
	Logstash				
	Other				
What solution is used to visualize logs?					
	Grafana				
	Kibana				
	Other				
Do you use role based access control for different users?					
	Yes				
	No				
	Unknown				
What solution is used within clusters for general system health?					
	Prometheus	☐ Icinga/Nagios	i		
	Dynatrace	☐ EFK			
	Datadog	☐ Jaeger			
	Sysdig	☐ Splunk			
	Cloud native tools	Other			







What is the r	maximum time between an	issue occurring and monitoring system awareness?				
	Less than 1 minute					
	1 - 10 minutes					
	10 - 60 minutes					
	Unknown					
Does the no	Does the notification speed meet organizational expectations?					
	Yes					
	No					
Is there an external monitoring solution being used to ensure internal infrastructure monitoring is operational?						
	Yes					
	No					
Have full len		re all health checks work as expected?				
	Yes					
	No					
Does a reduction in systems performance cause a financial concern to require an application performance monitoring (APM) solution?						
	Yes					
	No					
_						
If yes, has a	financial analysis been perf	formed?				
	Yes					
	No					
What APM tool is used currently?						
] Dynatrace	☐ New Relic				
] AppDynamics	☐ Datadog				
☐ Instana		☐ AWS Cloudwatch				
] Sysdig	☐ Grafana				
Г	Cloud native tools	□ Other				







	rent APM solution monitor Kubernetes?	all interconnected systems & services residing both
	Yes No	
	ent APM solution been cont -time-to-resolution)?	figured beyond the default settings to fully optimize
	Yes No	
La thanna a san		
is there a sep	earate tracing solution curre Yes	ently in place? If so, what solution is it?
	No	
What solutio	n is being leveraged within	clusters to gather container metrics?
☐ Dy	natrace	☐ New Relic
ПАр	ppDynamics	☐ Datadog
☐ Ins	stana	☐ ELK Stack
☐ Su	moLogic	☐ Prometheus + Grafana
☐ Sp	lunk	☐ Other
What solutio	n/s is currently being used	to visualize metrics?
	APM/Metric Solution Grafana Other	
Is a centralize	ed incident management/a	alert aggregation system in place? If so, what is it?
	YesNo	
Are alerts fro	m each monitoring system	shipped to your centralized management system?
	Yes No	







Is a backup/	redundancy system in place for shipping alerts if the primary does not respond?			
	Yes			
	No			
Is there a for	malized process to triage incidents?			
	Yes			
	No			
Is there a solution to monitor, manage & observe kubernetes workloads across multiple clusters?				
	Yes			
	No			

NEXT STEPS

Count the number of times you answered "Yes" and compare it to the number of times you answered "No." This will give you a sense of how well your Cloud, Clusters, Containers and Code is monitored to ensure Kubernetes environment health.

If you identify multiple tools in place, don't be concerned. These tools can be rationalized with a comprehensive monitoring system that can scale with ease.



