Lab - AWS re/Start Monitoreo de las aplicaciones y la infraestructura









Interactuando con AWS CloudWatch

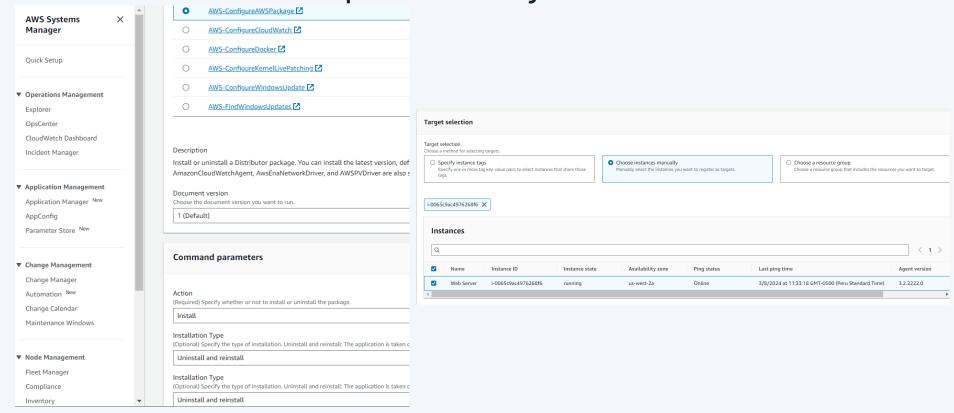
Los objetivos son:

- Utilizar el comando de ejecución de AWS Systems Manager para instalar el agente CloudWatch en instancias de Amazon Elastic Compute Cloud (Amazon EC2).
- Monitorizar los logs de las aplicaciones utilizando el agente de CloudWatch y CloudWatch Logs
- Monitorizar métricas del sistema usando el agente CloudWatch y CloudWatch Metrics
- Crear notificaciones en tiempo real mediante CloudWatch Events
- Seguimiento de la conformidad de la infraestructura mediante AWS Config

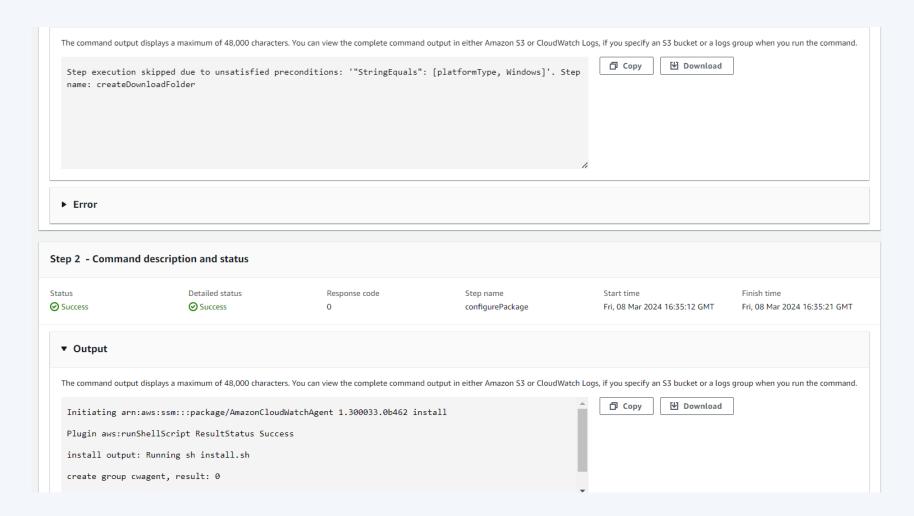




Empezamos instalando el agente de CloudWatch en una instancia de EC2, con ayuda de Systems Manager, para obtener métricas de aplicaciones y sistemas



Ahora veamos el output:







Luego, procedemos a hacer la configuración en el Parameter

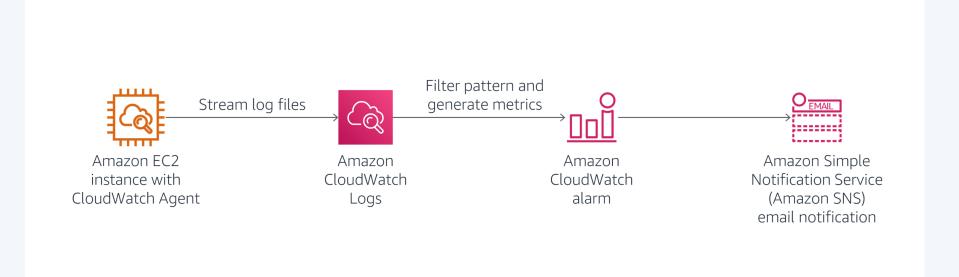
Store

Parameter details				
Name				
Q Monitor-Web-Server X				
When naming a parameter, you can use forward slashes (/) to organize it into a hierarchy. Learn more about hierarchies 🔀				
Description — Optional				
Collect web logs and system metrics				
Tier Parameter Store offers standard and advanced parameters.				
 Standard Store up to 10,000 standard parameters. Store parameter values up to 4 KB. Parameter policies and sharing with other AWS accounts are not available. No additional charge. 	Advanced Store up to 100,000 advanced parameters. Store parameter values up to 8 KB. Add parameter policies. Share with other AWS accounts. Charges apply.			
③ Standard parameters cannot be shared with other AWS accounts. <u>Learn more</u> ☑				
Туре				
 String Any string value. 				
StringList Separate strings using commas.				
 SecureString Encrypt sensitive data using KMS keys from your account or another account. 				
Data type				
text	▼			
Value				
}	_			

Con esto definimos los registros que serán enviados a CloudWatch Logs y las métricas, a CloudWatch Metrics. Luego, otra configuración de Run Command

	Name	Owner	Platform types
0	AmazonCloudWatch-ManageAgent [2]	Amazon	Windows, Linux, MacOS
Descript	tion		
	mmands to Amazon CloudWatch Agent		
	ent version he document version you want to run.		
8 (Defa	ault)		▼
Comm	nand parameters		
Action The action	n CloudWatch Agent should take.		
configu	ure		▼
Mode Controls p	platform-specific default behavior such as whether to include EC2 Metadata in metrics.		
ec2			▼
	al Configuration Source 'configure' related actions. Use 'ssm' to apply a ssm parameter as config. Use 'default' to apply default co	infig for amazon-cloudwatch-agent. Use 'all' with 'configure	(remove)' to clean all configs for amazon-cloudwatch-age
ssm			▼
	al Configuration Location configure' related actions. Only needed when Optional Configuration Source is set to 'ssm'. The value sh	ould be a ssm parameter name.	
Monito	or-Web-Server		
	Il Restart configure' related actions. If 'yes', restarts the agent to use the new configuration. Otherwise the new co	infig will only apply on the next agent restart.	
ves			▼

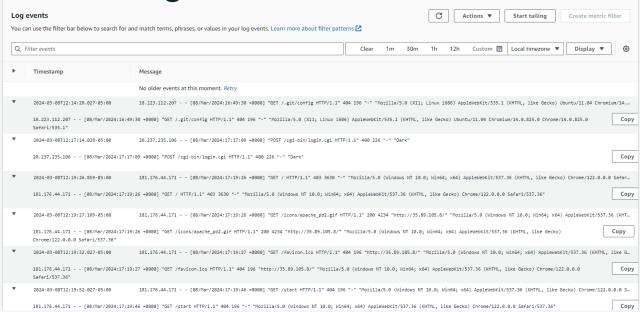
Luego, vamos a monitorear los registors de aplicación utilizando CloudWatch Logs



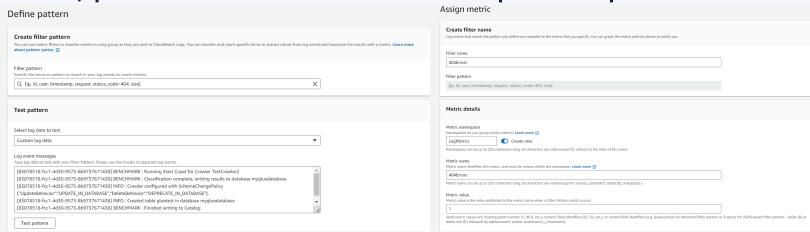




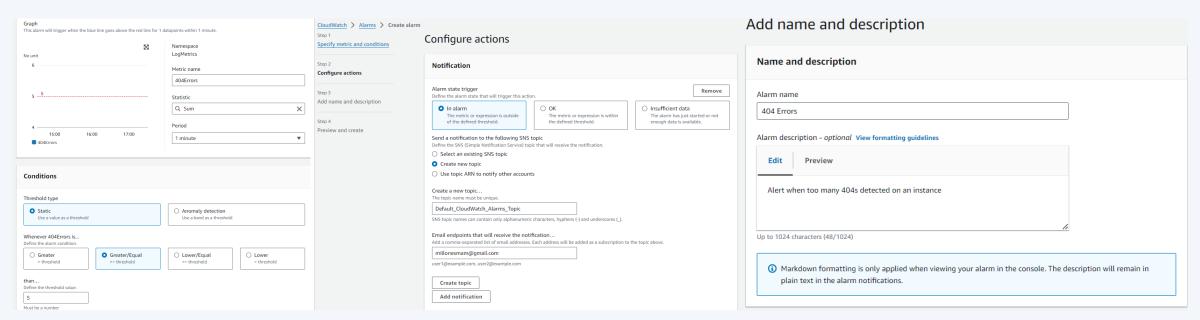
Y estos son los registros:



Asimismo, podemos realizar un filtro patron para la métrica



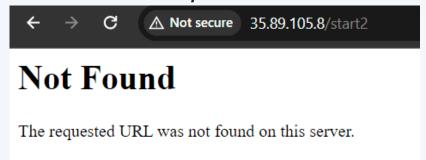
Luego, usando este filtro, podremos crear una alarma



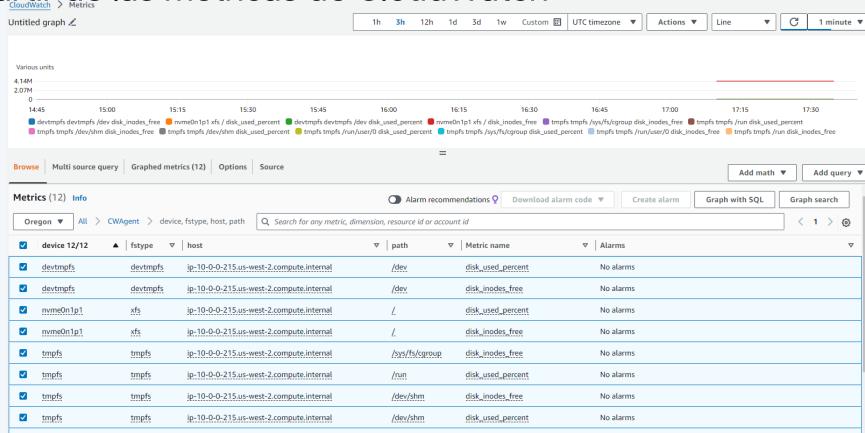




Luego, probaremos la alarma, se envía el correo



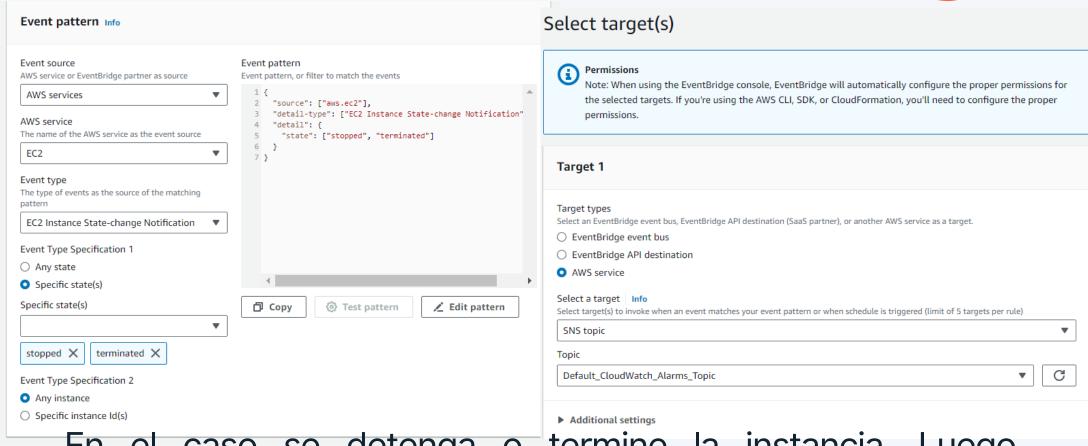
Después de ello, procederemos a monitorear la instancia a partir de las métricas de CloudWatch



Ahora, haremos notificaciones en tiempo real, mediante las reglas de CloudWatch







En el caso se detenga o termine la instancia. Luego, <u>utilizamos Config</u>

