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# Dynamic Observability: The Quest for Real-Time Data In Cloud-Native Applications

**Oded Keret**

VP of Product Management

**Sharon Shechner Sharlin**

Director of Product Marketing



# Who We Are

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- Sharon is Rookout's Director of Product Marketing.
- In her free time, she practices Yoga and tries to not take life too seriously.



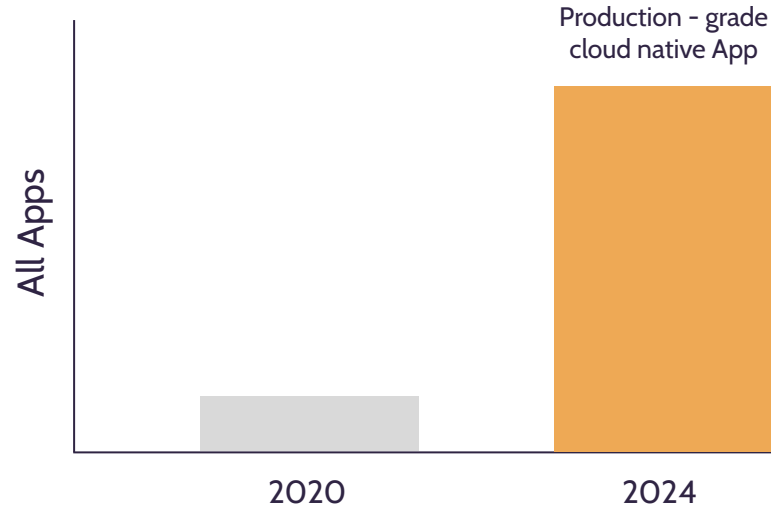
- Oded is Rookout's VP of product.
- Oded is a true believer in having fun while working together. He is also the founder of the Board Games in Tel-Aviv Meetup group.

# Cloud native apps adoption is exploding

Adoption of Microservices, Containers, Dynamic Orchestration, and DevOps Technologies

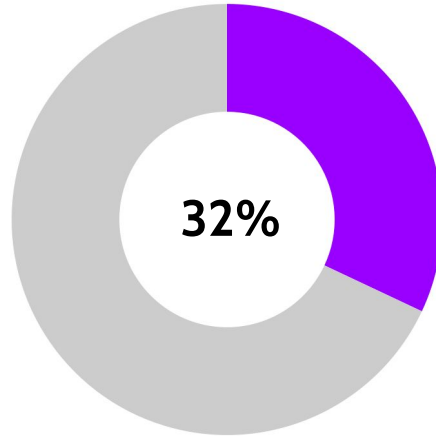
“By 2024 production-grade cloud-native apps will expand to 70% from 10% of all apps in 2020”

IDC 2021

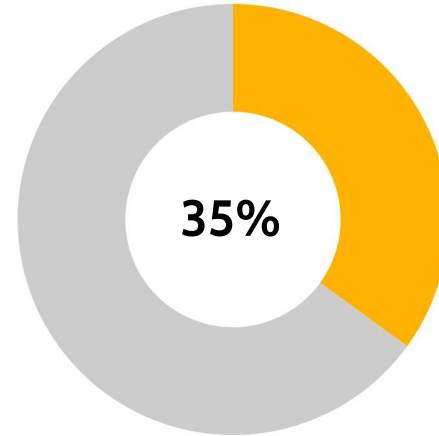


# Observability Adoption

The state of  
Observability  
VMWare 2021



Using or implementing  
observability solutions



Evaluating and planning  
to implement  
in the next 6 – 12 months

# 2021 was "the year of observability"



The term observability has become ubiquitous and although it continuous in many cases to be used **(or misused) as synonymous with monitoring**, organizations are finding that observability thinking provides new solutions to modern problems.

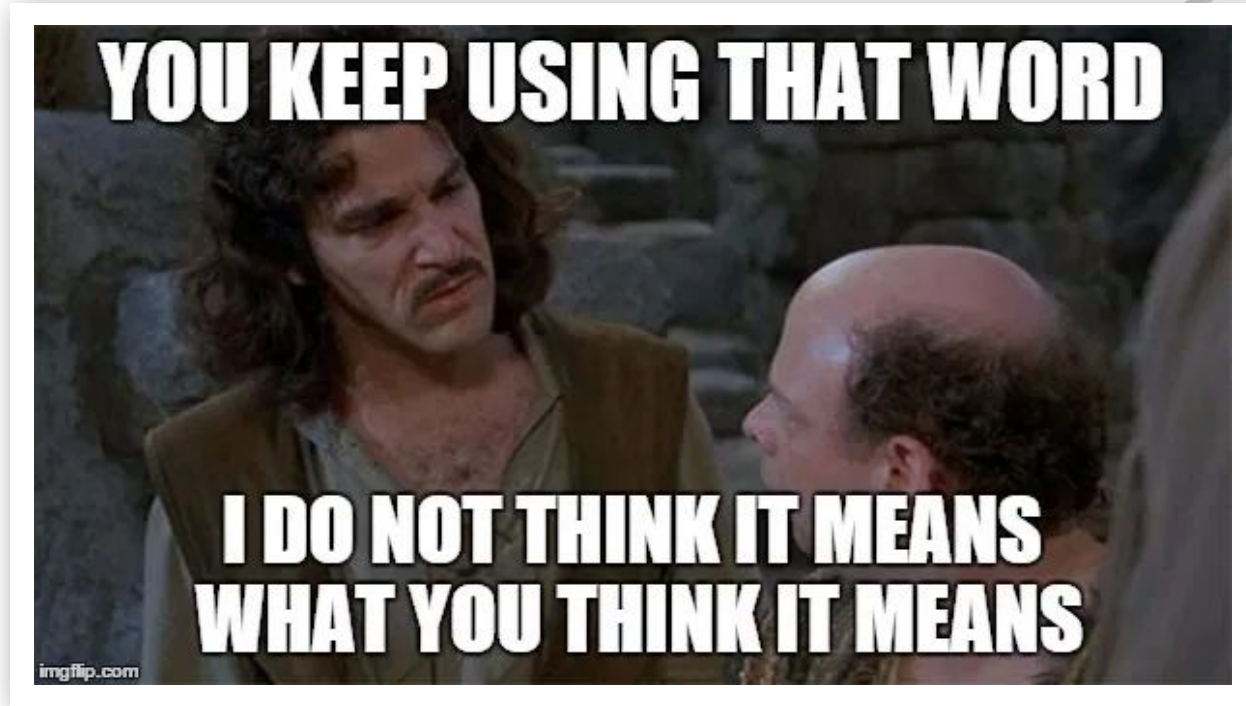
Many early definitions of the term focused on the different ways to ingest telemetry from a system - metrics, logs and traces being the so-called three pillars of observability - but it has expanded to encompass much more.



Gartner Hype Cycle for monitoring and cloud operations 2021



# Observability



# Observability : The three pillars

## Tracing



## Logs



## Metrics





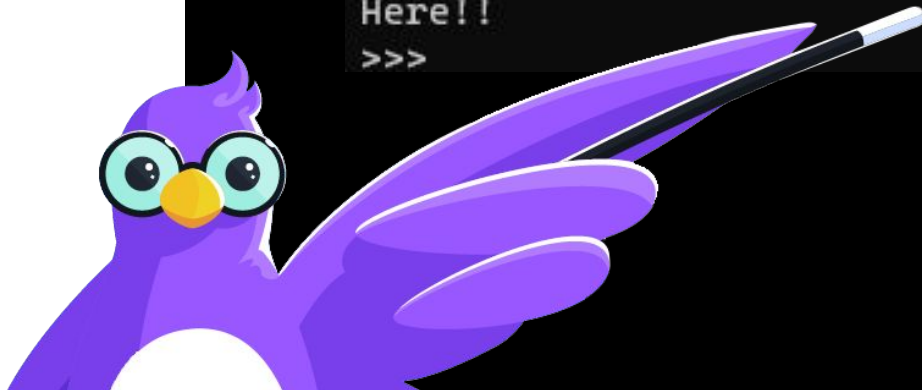
#1

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# Lack of Context

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```
>>> for i in range(10):  
...     print("Here!!")  
...  
Here!!  
Here!!  
Here!!  
Here!!  
Here!!  
Here!!  
Here!!  
Here!!  
Here!!  
Here!!  
>>>
```



#2

Costs are  
skyrocketing



#3

# Black box



# Data extraction tools available today



Command line  
debugging



Local  
debugging



Logging and  
tracing



Remote  
debugging



Deploy to  
production  
blindly

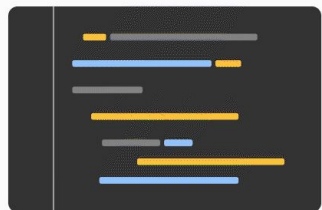
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# Accepting the quest - getting real time data

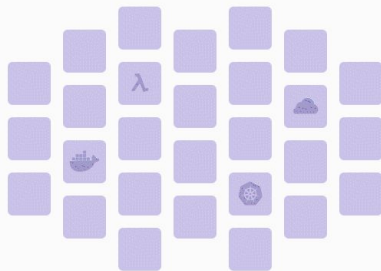
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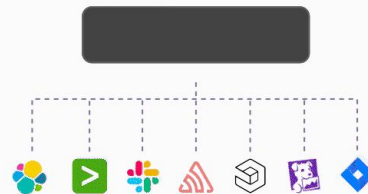
# Introducing Dynamic Observability



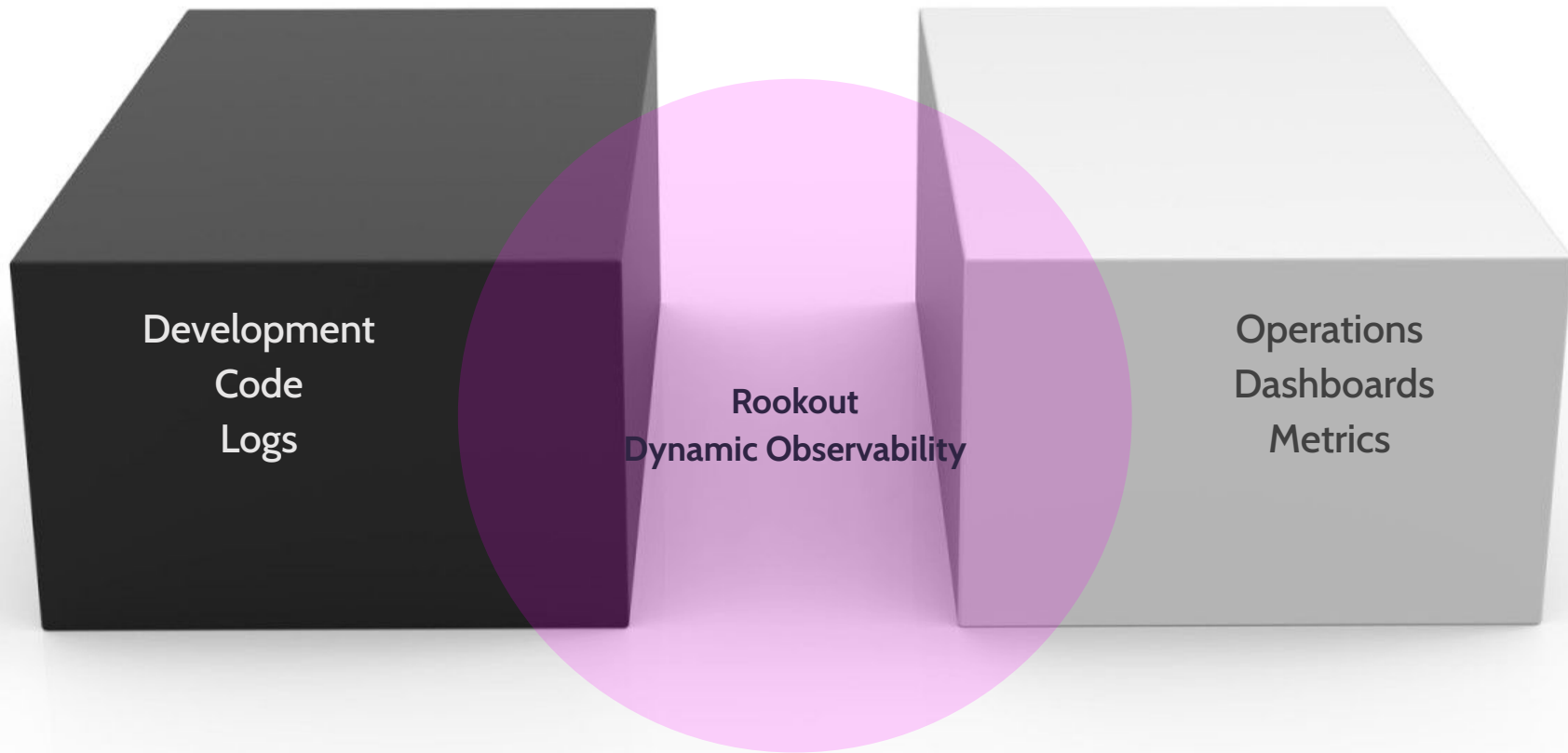
Set a non-breaking breakpoint that will not stop your app



Rookout instantly generates a dynamic, log line into running instances of your application



Get debugging data into your observability tools and fix bugs faster



# The Power of Dynamic Observability

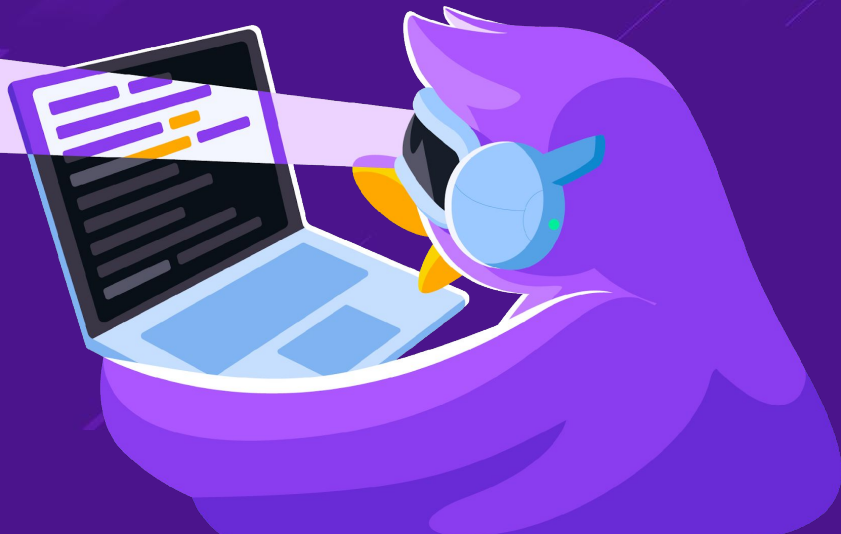
Real Time Context

Quicker Bug Resolution

Increase efficiency

Reduced logging cost

Dev wellness







# Thank You!

## Questions?

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