

## JavaCro 2023. Rovinj 12-15. 10. 2023.

**Title:** "Elevate The Cloud Game: Unveil the power of AWS Cost Optimization for business growth"

**Subtitle:** "The real tale from trenches about saving money and scale for success"

### **Presentation abstract:**

*"Cloud computing has revolutionized the way organizations manage their infrastructure and applications, empowering them with unparalleled flexibility and scalability. However, the true potential of cloud platforms like Amazon Web Services (AWS) lies in optimizing costs to maximize value. Join the author for an engaging presentation where he hunts through the world of AWS cost optimization, exploring diverse strategies and best practices that will revolutionize the way you leverage the cloud.*

*In the first part of the presentation, the author will demystify the art of cost optimization, unveiling a treasure trove of techniques that can help your organization minimize expenses without sacrificing performance or scalability. From rightsizing instances and optimizing storage and data transfer costs to intelligent workload management and containerization, author will provide you with actionable insights to unlock significant cost savings.*

*But that's not all! In the second part of the presentation, we invite you into the captivating realm of Jatheon ErgoCloud platform, a complex and groundbreaking solution. Get an exclusive overview of the services and resources utilized during its development, witnessing firsthand the powerful capabilities of AWS in action. Dive deep into a real-world example that showcases how Jatheon team transformed from zero to hero, going above and beyond to optimize costs and derive maximum value from their AWS investments.*

*Prepare to be inspired as we share our firsthand experiences, highlighting the challenges, triumphs, and lessons learned along the way. You'll witness a thrilling journey where cutting-edge technology meets innovative cost optimization strategies, resulting in a remarkable success story.*

*Join Aleksandar on this extraordinary adventure into the realm of AWS cost optimization, and learn how to unleash the true potential of cloud infrastructure while reaping substantial cost benefits. Discover the path that will elevate your organization from simply utilizing the cloud to becoming a master of cost optimization – a hero in your own right."*

<https://wa.aws.amazon.com/wat.pillar.costOptimization.en.html#cost.cfm>

<https://spacelift.io/blog/terraform-cost-estimation-using-infracost>

<https://spacelift.io/pricing>

<https://github.com/infracost/infracost>

<https://www.infracost.io/>

<https://www.youtube.com/watch?v=DDi6GE9Rlik>

### **Top 5 Ways to Optimize for Cost Efficiency with the Cloud**

<https://www.slideshare.net/AmazonWebServices/top-5-ways-to-optimize-for-cost-efficiency-with-the-cloud>

### **Cost optimization on AWS**

<https://www.slideshare.net/AmazonWebServices/cost-optimization-on-aws>

### **Cost Optimisation on AWS**

<https://www.slideshare.net/AmazonWebServices/cost-optimisation-on-aws-99806765>

### **AWS Cost Optimisation Best Practices Webinar**

<https://www.slideshare.net/AmazonWebServices/aws-cost-optimisation-best-practices-webinar>

### **Cost Optimization Strategies for Compute Instances**

<https://dzone.com/articles/cost-optimization-strategies-for-compute-instances>

### **The Ultimate Guide to Cloud Cost Optimization**

<https://dzone.com/articles/the-ultimate-guide-to-cloud-cost-optimization>

### **5 Tricks to Help You With AWS Cost Optimization**

<https://dzone.com/articles/5-tricks-to-help-you-with-aws-cost-optimization>

### **Cost Optimization on AWS EKS Clusters**

<https://dzone.com/articles/cost-optimization-on-aws-eks-clusters>

### **Journey Through the AWS Cloud: Cost Optimisation**

<https://www.slideshare.net/AmazonWebServices/journey-through-the-cloud-cost-optimisation>

### **AWS Cost Optimization 101**

<https://clouonaut.io/aws-cost-optimization-101/>

### **!!! TITLE !!!**

### **Efficiency at Scale: A Tale of AWS Cost Optimization**

<https://www.toptal.com/aws/aws-cost-optimization-at-scale>

### **AWS Cost Optimization Planning**

<https://www.aimably.com/aws-cost-optimization-planning>

### **AWS Cost Optimization E-book**

<https://www.microtica.com/aws-cost-optimization#ebook>

### **Nerd for Tech - Cloud Cost Optimization — AWS Cloud**

<https://medium.com/nerd-for-tech/cloud-cost-optimization-aws-cloud-e5d0fd870f67>

### **AWS Cost Optimization Tools and Tips: Ultimate Guide [2023]**

<https://spot.io/resources/aws-cost-optimization/8-tools-and-tips-to-reduce-your-cloud-costs/>

### **AWS Cost Optimizations: Tools, Checklist, and Best Practices**

<https://bluexp.netapp.com/blog/3-ways-to-save-big-and-10-price-variations-to-know-aws-cvo-blg>

### **8 AWS Cloud Cost Optimization Strategies and Tools**

<https://www.stormit.cloud/blog/cloud-cost-optimization-strategies-and-tools/>

### **AWS re:Invent 2022 - Simplify your AWS cost estimation (COP205)**

<https://www.youtube.com/watch?v=IGWyBdKeplQ>

### **How to manage AWS Costs to avoid huge bills - cost optimization**

<https://www.youtube.com/watch?v=gb9Qgc30X8s>

### **Guaranteed Savings on AWS: Yes, it's really possible!**

[https://www.youtube.com/watch?v=eDVqZ2T\\_GwE](https://www.youtube.com/watch?v=eDVqZ2T_GwE)

### **AWS Well-Architected for Startups - Cost Optimisation | Amazon Web Service**

<https://www.youtube.com/watch?v=tXRPicLruWc>

### **AWS re:Invent 2022 - Optimize your AWS cost and usage with Cloud Intelligence Dashboards (BSI304)**

[https://www.youtube.com/watch?v=BNYhk\\_wm4no](https://www.youtube.com/watch?v=BNYhk_wm4no)

### **Optimizing storage costs using Amazon S3 - AWS Online Tech Talks**

[https://www.youtube.com/watch?v=AfZAh\\_7w71o](https://www.youtube.com/watch?v=AfZAh_7w71o)

### **Choosing the right tools to optimize AWS costs | AWS Events**

<https://www.youtube.com/watch?v=uMMBEoeqOKM>

### **AWS re:Invent 2022 - Cloud cost optimization: Only paying for what you need (COP207)**

<https://www.youtube.com/watch?v=GFakkHD9aQY>

## **Quick Guide to Cost Optimization with AWS Managed Services | Amazon Web Services**

[https://www.youtube.com/watch?v=IMU871\\_1XrU](https://www.youtube.com/watch?v=IMU871_1XrU)

## **Why is my EC2 instance slow, unresponsive, or inaccessible but my CPU and memory consumption is low?**

<https://www.youtube.com/watch?v=1LzKxpLWLYw>

Title: "Elevate The Cloud Game: Unveil the power of AWS Cost Optimization for business growth"

Subtitle: "The real tale from trenches about saving money and scale for success"

tell application "Keynote"

- Create a new presentation

- set newDocument to make new document

- set newSlide to make new slide with properties {base slide:master slide 1 of newDocument}

- Slide 1

- tell newSlide

- set the title to "AWS Cost Optimization"

- set body to {"- Analyzing Cost Drivers",

- "- Right-sizing Resources",
- "- Utilizing Reserved Instances",
- "- Implementing Spot Instances",
- "- Leveraging AWS Cost Explorer"

set presenter notes to "Welcome to our presentation on AWS Cost Optimization. In this presentation, we will explore various strategies to optimize your AWS costs. By analyzing cost drivers, right-sizing resources, utilizing reserved instances, implementing spot instances, and leveraging AWS Cost Explorer, you can effectively manage and optimize your AWS spending.\n\nMid-journey prompts:\n1. How can we identify the cost drivers in our AWS infrastructure?\n2. What are the benefits of utilizing reserved instances?"

end tell

-- Slide 2

set newSlide to make new slide with properties {base slide:master slide 1 of newDocument}

tell newSlide

set the title to "Analyzing Cost Drivers"

set body to {"- Monitoring resource usage",  
"- Identifying cost-intensive services",  
"- Optimizing data transfer costs",  
"- Analyzing storage usage"}

set presenter notes to "In order to optimize AWS costs, it's crucial to analyze the cost drivers in your infrastructure. This involves monitoring resource usage, identifying cost-intensive services, optimizing data transfer costs, and analyzing storage usage.\n\nMid-journey prompts:\n1. What tools can we use to monitor resource usage in AWS?\n2. How can we optimize data transfer costs in our architecture?"

end tell

-- Slide 3

set newSlide to make new slide with properties {base slide:master slide 1 of newDocument}

tell newSlide

set the title to "Right-sizing Resources"

set body to {"- Choosing the right instance types",  
"- Scaling vertically and horizontally",  
"- Implementing auto scaling",  
"- Optimizing storage sizes"}

set presenter notes to "Right-sizing resources is a key aspect of AWS cost optimization. By choosing the right instance types, scaling vertically and horizontally, implementing auto scaling, and optimizing storage sizes, you can ensure that your resources are efficiently utilized.\n\nMid-journey prompts:\n1. How can we determine the appropriate instance types for our workload?\n2. What are the benefits of implementing auto scaling?"

end tell

```

-- Slide 4
set newSlide to make new slide with properties {base slide:master slide 1 of
newDocument}
tell newSlide
  set the title to "Utilizing Reserved Instances"
  set body to {"- Understanding reserved instances",
    "- Reserved instance purchasing options",
    "- Calculating cost savings",
    "- Balancing reservations with on-demand instances"}
  set presenter notes to "Reserved instances offer significant cost savings in
AWS. By understanding reserved instances, exploring reserved instance
purchasing options, calculating cost savings, and balancing reservations with
on-demand instances, you can optimize your AWS costs effectively.\n\nMid-
journey prompts:\n1. How can we calculate the cost savings of utilizing
reserved instances?\n2. What factors should be considered when balancing
reservations with on-demand instances?"
end tell

-- Slide 5
set newSlide to make new slide with properties {base slide:master slide 1 of
newDocument}
tell newSlide
  set the title to "Implementing Spot Instances"
  set body to {"- Understanding spot instances",
    "- Benefits and use cases",
    "- Spot instance pricing",
    "- Handling interruption"}
  set presenter notes to "Spot instances provide a cost-effective way to run
fault-tolerant and flexible workloads. By understanding spot instances,
exploring their benefits and use cases, understanding spot instance pricing,
and handling interruption, you can leverage spot instances to optimize your
AWS costs.\n\nMid-journey prompts:\n1. What are the benefits of using spot
instances in AWS?\n2. How can we handle interruption when using spot
instances?"
end tell

-- Save the presentation
set presentationPath to (path to desktop as text) &
"AWS_Cost_Optimization.key"
save newDocument in file presentationPath
end tell

```

**LLMa - Hugging Face**

<https://streamyard.com/watch/ujrA4pG3ixAm>

