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ALPACKED:

Embark on DevOps and Cloud transformation!

DevOps from Alpacked:
What is it and Why is it needed?

DevOps Services from Alpacked — is a comprehensive range of end-to-end services - from consulting to managed services. Our team of DevOps experts excels in implementing complex practices at every stage and enhancing your team's ability to optimize operations with over 35 years of top-notch expertise.

Who will benefit from this service?

- Those who find starting from scratch easier due to over-complication.
- Those experiencing continuous unpredictable issues slow down time-to-market.
- Those grappling with autoscaling issues and unnecessary costs.
- Those beginning AI implementation but unsure of advancing and securing it.

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How DevOps by Alpacked works

Before Collaboration

1. Needed a solid DevOps foundation but were unsure which strategies would work given your limited resources and time.

2. Sought cost savings and security improvements to reduce expenses and speed up time-to-market.

3. Aimed to break down silos between departments and promote independent teamwork.

4. Believed in AI's potential but didn't know where to begin.

With our discovery, you will get:

1. Operated system 24/7 with zero downtime, smooth rollbacks, and expert management strategies.

2. Speeded up releases and time-to-market according to deadlines.

3. Balanced efficiency and cost-effectiveness, ensuring the system was always ready to autoscale.

4. Protected revenue streams with real-time monitoring and logging insights.

5. Secure and reliable data without slowing down in case of DDoS attacks.

6. Fulfilled multi-region and multi-cloud requests and meeting all SLA requirements

Average results:

1. Faster deployments **by 56%** and **25% quicker** software releases.

2. Reduced system outages **by 40%** and improved stability.

3. Dropped update and rollout downtime **by 35%**, maintaining **98,99% uptime**.

4. Cut resource waste **by 20%** while ensuring peak capacity.

5. Managed disaster recovery, cutting data recovery time **by 63%** post unforeseen events.

6. Decreased security incidents **by 47%** without slowing down deployment time.

What's the secret of Alpacked efficiency?

The client's slow builds were due to poorly programmed IaC, resulting in 6-hour delays for minor change. **The discovery helped** identify three main issues:

1. **Redeployments:** It took 30 minutes for full app redeployment on AWS.
2. **Redundant Builds:** Minor changes triggered 2-hour full system rebuilds.
3. **Multiple Environments:** Updates on DEV, Stage, and Prod took at least 5 hours.

Result for business:

— Slashed build and **deployment times by 75%**, saving costs by minimizing resource usage.

— Streamlined operations, **cutting over 80 hours** per commit and reducing artifact generation.

— Accelerated time-to-market for new features, ensuring timely **delivery within budget**.

— Improved infrastructure **reliability and scalability**, meeting standards **while maximizing cost efficiency**.

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Scalability

In our discovery process on another company, we noticed the existing routing policies were under-optimized for a Web3-based web application.

Hence, we implemented a series of rules that improved the **platform's performance by 25%.**

- **Load balancing:** Distributed traffic across the cluster, reducing load on nodes by 30%.

- **Rule-based routing:** Optimized response times with geographical and latency-based rules, boosting load speed by 20%.

Integrated pre-deployment health checks into CI/CD, increasing deployment success rate by 15%.
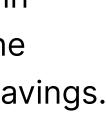
Cost-Optimization

Our client also has many additional microservices. We catchy it with discovery too, a quick overview showed that microservices interact with the main application occasionally, staying idle most of the time.

Eventually, we settled on AWS Lambda, a serverless event-driven computing service.

How this decision went?

Reduced operational costs. AWS Lambda runs the code only in response to events. This means that the client only pays for the computation time they consume, resulting in significant cost savings.

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Logging & Monitoring

The client's team practiced DevOps but lacked the hands-on experience to fix the problems.

We did preliminary research and communicated with the in-house developers to outline the key issues.

1. The current Kubernetes cluster and nginx don't autoscale effectively.

2. While real-time events are managed well, bulk event handling faces limitations with SQS limits, impacting the processing speed.

3. Maintaining the chronological order of the events is a critical need.

Result: 40% boost in autoscaling and 30% increase in scalability.

What we got FOR BUSINESS:

- Scalability with Kubernetes and enhanced auto-scaling based on Pending pods.

- Secured scalability using placeholders and resource optimization by prioritizing workloads.

- Better performance with HPA and effective single-pod processing with VPA.

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Our next steps:

> Thanks to **Alpacked**, the client has been able to scale their platform **by 300%**, which has enabled them **to onboard many customers**. The team has done a remarkable job, and they've stood out for their accommodating and cooperative attitude.
> **They go beyond their duty and manage the project seamlessly.**
>
> — **Founder and CEO of TvCoins**

1. Take 1 to 3 days to get your roadmap prepared to improve your process or build your devops from scratch.

2. We are sure of our results, so the first improvements will be seen from the first weeks (on average).

3. Increased stability of your company will open doors for growth and scalability

4. Up-to-date tools that are not only cutting-edge but really make a difference in your case.

5. Ensure you are 98,99% times uptime and preparing for new heights with frequent releases

Contact Us

Over **35 years** dedicated to DevOps, including **5 years** on the market. Alpacked team of **24 experts**, boasting a track record of successfully passing around **10 security audits** and completed about **50 successful projects.**

Trust in our expertise for your next endeavor.

Learn more about Alpacked at our website, or contact us directly today!

Scan to book a call