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# Success story

**Peruvian  
Healthcare Leader  
Reduces Response  
Times Eight-Fold  
and Reaches  
System Stability**

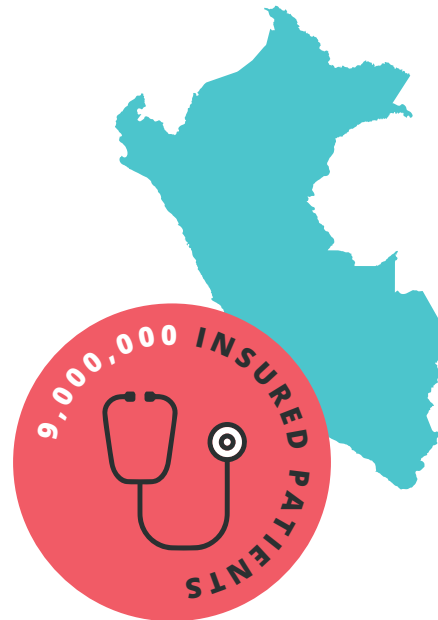




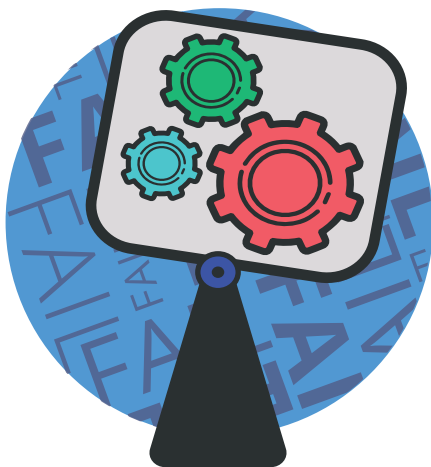
## EsSalud Case Study

EsSalud is a leading national insurance company in Peru that provides healthcare services to the working population and their families within its national facilities and hospitals.

With more than 9,000,000 insured patients across the country, EsSalud assists an average of 200,000 patients per day.



## The Problem



In early June 2013, EsSalud's system was highly unstable, presenting failures every 48 hours.

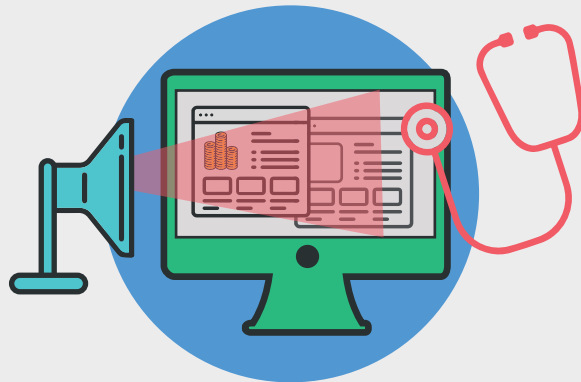
There was a desperate need to diagnose, monitor, and evaluate the system's performance and then specify the correct settings for the hardware, software base and/or applications needed to improve application performance.



## Our Solution

*We completed an initial diagnosis of the system, which allowed us to assess the situation and define the steps required to stabilize it.*

*We then performed a technical analysis and carried out monitoring and performance evaluation activities using JavaCore, Jconsole/JvisualVM, IBM Tivoli, Nmon and JMX.*

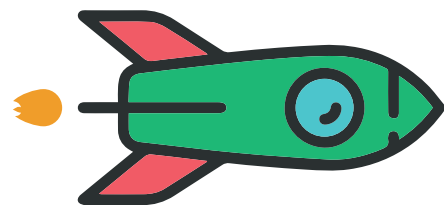
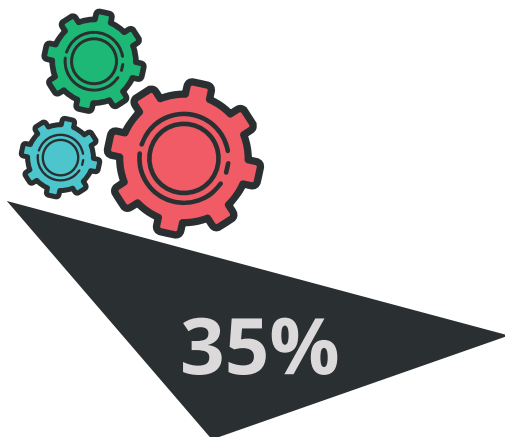


**ANALYSIS, MONITORING  
AND EVALUATION**

## A+ Results

*Within one month, Abstracta was successful in:*

- Stabilizing the system from project completion to date.
- Reducing response times from an average of 1.5 seconds to 175 milliseconds (more than 8 times faster).
- Reducing the consumption of resources across server applications by 35%, enabling them to use an average of 10% of their processing capacity.
- Increasing the amount of free memory from being almost saturated to having 10GB available.
- Resolving all memory leak problems; this helped EsSalud avoid restarting all of its application servers every night. It also prevented a daily window of service downtime and materially reduced maintenance costs.



# Looking to improve the performance and quality of your systems?

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