



End-to-end Infrastructure Vulnerability Assessment and Penetration Testing for a Leading Health Tech Giant in Europe

Improved cyber risk posture by reducing the overall security testing efforts by 65% and increased the quality of defects by 300% via DevSecOps automation.



01 About the client

The client is one of the leading health technology companies in the US and has been associated with LTIMindtree for more than three years. As healthcare is one of the most targeted industries by cyberattacks, the client wanted to secure their application framework and infrastructure ecosystem to ensure robust security of their web applications to prevent unauthorized access and potential data breaches.

The scope of the work includes performing on-demand security testing that includes:

01	Security Code Review (SCR)	05	Web Services Security Testing (WSST)
02	Web Application Manual Testing (WAMT)	06	Mobile Application Security Testing (MAST)
03	Web Application Penetration Testing (WAPT)	07	Guided Web Services Security Testing (WSST)
04	IT Infrastructure Vulnerability Assessment and Penetration Testing (VAPT)	08	Guided DAST (Dynamic Application Security Testing)

02 Challenges

As a long-standing client partner for more than three years, we understand the client's key business drivers impacting security. The key challenges they faced were as follows:

01



High number of false positive alerts

04



No defined approach to consult for security testing

02



Ineffective vulnerability management operation

05



Complex policies and processes

03



No security testing was performed during development and in-sprint





03 LTIMindtree solution

LTIMindtree streamlined the complex policies and defined a process for continuous security testing across the software development lifecycle. We have also deployed vulnerability assessment, web application scanning framework, penetration testing, and dynamic application security testing.

Key solution highlights

Performed in-depth analysis

of the client's current security architecture operation.

02 Defined process

for continuous security assessment across the software development lifecycle..

Performed different levels of testing

based on the complexity of applications and implemented continuous security testing.

- Proposed automation
 of dynamic and web application security testing.
- 1mplemented In-Sprint CI/CD-based dynamic security testing execution using Azure DevOps.
- Deployed Qualys Web Application Scanning (WAS)
 in the Azure DevOps environment to detect vulnerabilities on all networked assets, including servers, network devices, etc.





04 Business benefits

LTIMindtree's structured approach to security testing and DevSecOps automation helped the client achieve the following key business outcomes:

01



65%

reduction in the overall efforts for the security testing program

02



300%

increase in the quality of defects using DevSecOps automation

03



70%

reduction in false positives

04



2500+

vulnerabilities found and remediated

05



Reduced time to mitigate

vulnerabilities and avoid slippages

06



Improved security testing

workflow and plan

07



Reduced effort required

for performing dynamic security testing

About LTIMindtree

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 82,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit https://www.ltimindtree.com/.