Wipro Healthcare & Life Sciences on AWS

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Serving over 200 customers across more than 50 countries.

Why AWS?

Cloud-based technology is becoming the new normal in healthcare and life sciences—and with good reason. Two-thirds of the average healthcare IT budget is currently dedicated just to keeping the lights on. That amount of spending should reap bigger rewards, and cloud technology offers just that.

Healthcare and life sciences companies around the world are using Amazon Web Services (AWS) to create better experiences and outcomes for patients.

Using AWS saves money with affordable archiving, saves physical space with backup servers in the cloud, and offers new ways to manage patient information. AWS cloud computing also provides access to powerful new analytics capabilities and machine learning, all while meeting the most stringent security and privacy requirements.

It's time to rethink IT in healthcare and life sciences – and reduce complexity, inefficiency, and costs by optimizing your investment in data management. Here are three specific ways AWS can help.

> AWS is collaborating with healthcare providers, public health organizations, government agencies, and life science businesses around the globe to support their efforts to cope with the effects of COVID-19. Our **AWS Healthcare & Life Sciences COVID-19 Resources** page provides up-to-date information and resources for COVID-19 researchers and diagnostics developers.

Incorporate new technology to improve care delivery and product development

You're in the health and wellness business, so it's important to allow your organization to focus more on delivering optimal patient experiences and outcomes, and less on building and maintaining your data infrastructure.

The managed features of AWS provide new ways for life sciences and healthcare customers to connect with patients, providers, suppliers, and distributors. Capabilities such as code-triggered functionality enable customizable reports and personalized notifications, transforming the value chain to help more patients get better, faster. Data analytics empowers researchers, clinicians, and operations and manufacturing teams to make better-informed decisions. Machine learning can support clinical forecasting, personalized engagement, and advanced clinical and product research.

- Customizable reports and personalized notifications
- Make better-informed decisions
- Clinical forecasting, personalized engagement, and advanced research.

> Propeller Health has developed a **digital health platform** that improves outcomes for people with chronic respiratory disease. The company applies machine learning with solutions such as Amazon SageMaker and Amazon Redshift, along with its infrastructure built on AWS, to give patients a forecast of their health based on local weather conditions, recent medication use, and other factors.

Manage your data more effectively

It's not about the data you have; it's what you do with it. AWS offers myriad ways to gain insights from the data you gather and store.

That starts with the ability to get data into the cloud quickly and seamlessly. AWS offers hybrid and customized configurations, so your data-management system does exactly what you need it to. That means easy and secure access for users, with safeguards that ensure secure data and user identities. You can search metadata easily, using tools such as predictive and prescriptive analytics to identify trends and develop new insights. You can also segment your data, creating separate storage for active, infrequently accessed, and archived data. AWS supports HIPAA, HITRUST, FedRAMP, and other compliance requirements, with services designed to conform to global industry standards.

> A major cancer research center uses Amazon Comprehend Medical to identify patients for clinical trials who may benefit from specific cancer therapies, reducing the time to process millions of document from hours to seconds.

Reduce risks and support regulatory compliance

AWS delivers an environment built for the world's most secure organizations. Our infrastructure meets stringent security standards for banking and the military, with a robust set of tools for networking, encryption, identity management, and regulatory compliance.

Insufficient data security, compliance and availability can open the door to sophisticated, hard-to-identify attacks. To stay in front of the latest threats, we continually refine our security measures based on our customers' experiences. And the AWS security team is always available to help.

The healthcare industry is rapidly moving to the cloud, and AWS gives you the best resources to accelerate your journey. In addition to direct support, our AWS Partner Network (APN) connects you with technology and consulting partners who are experts in a wide range of applications. And the AWS Marketplace offers industry-specific software you can deploy with one click.

Wipro Solutions for Healthcare on AWS

Wipro's fast-growing health industry vertical serves over 200 customers across more than 50 countries. Wipro on AWS helps health providers coordinate care teams, increase patient engagement, and improve internal processes, and also offers extensive experience providing solutions for critical functions along the pharmacy value chain – from research and development to manufacturing, distribution, and sales. AWS service integration assists Wipro in building products that deliver unprecedented efficiency, cost savings, and customer satisfaction.

1 Smartance

Wipro Smartance is an end-to-end platform that automates pharmacovigilance (PV) processes by harnessing the power of AWS native artificial intelligence (AI) capabilities. Smartance collects and analyzes adverse event and complaint data from intake channels to reduce processing time and improve consistency and accuracy.

Key features

This solution intelligently collects medical and clinical data from diverse sources, stores information in patient safety databases, and centralizes data into a single unified portal for processing and submission.

- **Case prioritization and triaging.** Smartance uses powerful analytics and AI to flag your most urgent cases.
- **Smart digitization of case forms.** Optical character recognition (OCR) converts printed and written documents into indexable text.
- **State-of-the-art translation capability.** The solution seamlessly translates content from the source language to English, in real time.
- **Automated data entry.** Hands-free case processing tools store data securely in your patient safety database.
- **Adverse drug reaction (ADR) detection, drug coding, and medical coding.** Smartance effortlessly captures and codes for compliance.

Benefits

Smartance PV customers enjoy easy integration with existing infrastructure, plus the ever-expanding benefits of cutting-edge AWS microservices – resulting in immediate time savings, cost savings, and accuracy improvements.

- **Significant reduction in case processing time, effort and cost.** Case time savings translate to labor and cost savings.
- **Increase in quality, accuracy, and consistency.** AWS automation, inference, and digitization tools deliver high-accuracy data.
- **Generates tangible and actionable insights.** A focus on high-impact areas helps predict and prevent adverse events.
- **Simple and scalable.** The model adjusts capacity to meet your case volume, without reducing speed or sensitivity.
- **Single-pane processing.** Your unique processing portal combines all intake channels and is available 24/7.

Learn more

- Pharmacovigilance: Smarter approach to drug safety
- Wipro Smartance: Bringing a revolution in patient safety with Artificial Intelligence
- How Pharma is Adapting to Digital Interventions and Driving Healthcare

2 Collaborative Care Platform

Integrating patient care among providers improves patient outcomes while conserving resources. Wipro's Collaborative Care Platform is built on AWS native architecture. It integrates care teams and leverages AI and IoT tools to provide superior patient experiences and deepen engagement across the health care spectrum, from preventative to acute care.

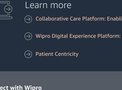
Key features

The Collaborative Care Platform solution coordinates processes such as monitoring, communication, and logistics. It engages care teams and improves care plan adherence, leading to better long-term health outcomes.

- **Patient acquisition tools.** Collaborate with hospitals, agencies, and pharmacies to run digital and nondigital campaigns.
- **Easy referrals.** Manage hospital and physician referrals and scheduling in a single platform.
- **Enhance the patient-provider experience.** Platform tools help providers cultivate effective patient and care team relationships.
- **CarePhone.** Keep a pulse on mobile patient medical monitoring and treatment.

Benefits

Uniting care teams and empowering them with monitoring and engagement tools helps practices achieve the triple aim of health care: better care and better patient experiences at a better value.



- **Curate the patient experience.** Create more meaningful interactions with your patients and improve brand perception.
- **Improve care.** Engaged patients and providers lead to better health care and better outcomes.
- **Gain visibility.** The platform provides comprehensive oversight, from patient enrollment to home care.
- **Integrate care teams and devices.** Design an ecosystem that includes patients, providers, caretakers, and smart medical monitoring tools.
- **Personalize with AI.** Intelligent chatbots give a personal touch to search, discovery, and care.

Customer references

- A leading pharmaceutical company used Collaborative Care Platform to bring together patients, physicians, and sponsors.
- Wipro helped a top healthcare system streamline breast screening and blood donation processes.

Learn more

- Collaborative Care Platform: Enabling a superior patient experience
- Wipro Digital Experience Platform: Collaborative Care Platform
- Patient Centricity

Connect with Wipro

To get started transforming your business, innovating faster, and growing ahead of the curve.

Connect

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