Telemedicine security made easy

A remote brainwave testing startup helps overcome medical shortages in half an hour.

NEXT GEN NEURO

In the waiting room

Real-time remote brainwave testing or continuous cEEG monitoring services are in high and growing demand. Especially under pandemic conditions, they add value by efficiently delivering remote, on-demand, pay-as-you-go telemedicine services.

"We partner with facilities across the country to provide dependable, high-quality EEG services precisely at the right time and in the right place," explains Olivia Martinez, Director of Marketing at Next Gen Neuro, a woman- and veteran-owned startup based in Indianapolis. "There is a big need for this service due to the fact that we have a nationwide shortage of providers, and we know that quicker testing, results and treatment lead to better patient outcomes."

Next Gen Neuro has remote EEG technologists, neurodiagnostic assistants, and specialty boarded Epileptologist physicians on staff ready to provide coverage, whether the need is just a few hours a day, an entire weekend or 24/7.

"Continuous EEG detects silent seizures, which have no visible symptoms, in about 20% of ICU patients," says Jonathon Osburn, the company's Information Systems Architect. "With real-time continuous monitoring, a remote registered EEG technologist (R. EEG T) can immediately alert medical staff of a patient's condition so they can provide care as appropriate."

Profile

- Provides remote neurodiagnostic and brainwave monitoring (EEG) services for U.S. patients, in-place, on-demand, 24/7/365.
- Headquartered in Indianapolis, with approximately 50 employees.

Challenges

- Strict telemedicine security compliance standards when gathering, monitoring, and sharing patient data in the cloud
- Requires extensive reporting to demonstrate compliance
- Must ensure that cloud-connected network is fully secured against cloud attacks, data loss, and hackers

Solution

- Barracuda Cloud Security Guardian
- Barracuda Web Application Firewall
- Barracuda CloudGen Firewall

Results

- 30-minute installation: no training required to configure, integrate with Azure and get their first report.
- Able to automatically analyze the company's entire cloud deployment across multiple infrastructures, recommend standard policies and allow custom configurations.
- Better visibility: Award-winning and confidence-boosting reports

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Information Systems Architect
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"The doctor will see you now"

When deciding on which security platform to use for their cloud native service, Osburn says he went with a company that had a proven track record of not only affordability and features, but one that integrated tightly with their chosen cloud platform (Microsoft Azure).

After installing Barracuda Web Application Firewall, the company then deployed Barracuda Cloud Security Guardian in Azure to address the exploding complexity of intersecting cloud services that must be configured at all levels and locations to comply with industry regulations. "As an IT security guy, the features alone sold it for me, but the business value and integration with Azure really sealed the deal," he says.

"We were up and running in half an hour. With Barracuda, we get better security and visibility, which is a major component of our success."

Jonathon Osburn
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"Surprisingly, we were up and ready in half an hour," Osburn says of the initial setup. "Turned it on, entered my license key, connected it to Azure and I had my first report in 30 minutes. It went really well." Although it took him additional time to sync the system with the Barracuda Web Application Firewall and other applications. "This was mostly due to the extra security configuration our industry requires," he says. "So that was expected."

All told, Osburn estimates that the automatic detection and remediation saves him at least two person-hours a week. "Which doesn't sound like much," he says, but it goes a long way in not only improving performance, but also reducing costs. "It's a huge time-saver, far more reliable than manual monitoring, and has excellent reporting that our sales team depends upon when demonstrating our security to prospective clients."

And that's a nice bonus to have in his line of work. "The hardest part of my job is not keeping the technical aspects working, but reassuring clients that we can and do protect their medical data better than they expect us to in the cloud," he concludes. "With Barracuda, we get better security and visibility, which is a major component to our success."

Learn more about Barracuda Cloud Security Guardian, Barracuda Web Application Firewall and Barracuda CloudGen Firewall

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