BANKING & FINANCE USE CASE

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VERTICAL: BANKING & FINANCE

TOPIC: BANKING SECURITY

POTENTIAL CHALLENGE:

- Unauthorized personnel gains access to IT infrastructure
- Threats from an internal employee ignoring banking best practices
- Internet outage may cause disruptions in the online portal functionality

POTENTIAL SOLUTION:
NAGIOS XI
OPTIONAL:
NAGIOS LOG SERVER
NAGIOS NETWORK ANALYZER

POTENTIAL RESULTS:

- Accessibility to the IT infrastructure is consistently monitored, ensuring security and data protection
- Efficiently managing user accounts, permitting them access only to infrastructure components they're authorized for
- Reliable internet connection ensures clients are able to complete online transactions without issues
- Identify unexpected network traffic
- Logged activity results for audit and compliance purposes

THE CHALLENGE

In today's banking and financial industries, millions of users manage their finances utilizing online banking. Because of this global shift over the years, the IT infrastructure within financial facilities must be secure, reliable, and available 24/7. Financial service providers must maintain constant visibility into their sites and network. As the digitalization of banking increases, internet banking security concerns are greater than ever.

In the event unauthorized personnel access the IT infrastructure, vulnerable client information and significant financial information could be leaked, damaging a bank and impacting their clients. Preventative steps must be taken in order to protect sensitive customer data. Employees are often the most vulnerable point in a company's security practices, making it more important than ever to monitor employee access and activities. In addition, threats from internal employees may also be a cause for concern. Remote financial employees, call center agents as well as financial developers all need to make use of the digital workspace. IT staff may not have visibility into which user is accessing infrastructure components, thus, lacking the ability to act quickly and protect sensitive client data.

Because online banking relies on a stable internet connection, internet outages and connectivity issues may cause a problem with online portal functionality, ultimately impacting clients and their ability to complete pertinent transactions. In the banking and financial industries, IT downtime is money lost and could play a significant role in the loss of reputation and clients.

THE SOLUTION

Ensuring the security of a financial institution's IT infrastructure and extensively monitoring critical financial components safeguards their entire banking system.

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By deploying a Nagios solution, unauthorized personnel and internal employee threats can be mitigated, ensuring data protection and proactive visibility. Nagios XI simplifies administration with advanced user management, where IT staff can efficiently monitor and manage user accounts within the Active Directory and ensure internal employees can only view the infrastructure components they're authorized for. Nagios Log Server has the ability to collect log events of any of your systems to help identify whenever an individual logs in or logs out, allowing IT staff to have access to the time period of how long a user was logged in and to what machine. Nagios XI's monitoring and alerting capabilities allow IT staff to receive instant notifications of any internal and external threats and system outages, ultimately reducing system interruption and eliminating downtime due to the ability of IT staff to resolve problems quickly.

Whether it is a local credit union or a multinational bank, banking services need to be available to clients 24 hours a day. When connectivity is broken, business continuity plans can be put into action sooner. Whether that be a notification to members letting them know of a website outage or a backup site is automatically activated via an Event Handler and takes over for the production site, immediate notification allows IT staff to determine the best action for that situation and act immediately. Nagios Event Handlers can be scripted to automatically resolve issues without the need of the IT team's attention, meaning less downtime and happier customers and shareholders. XI provides financial facilities with a solution tailored to meet the challenges the banking and financial industries face and enables IT staff to secure internal processes.

The addition of Nagios Network Analyzer allows you to see if there are changes to the networks expected netflow data. This functionality provides IT with the information needed to identify anomalies in network traffic and block unwanted communications.

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THE RESULT

The implementation of Nagios XI will play a vital role in maintaining optimal server performance and ensuring a secure IT infrastructure of banking and financial institutions. By monitoring key performance metrics, banking and financial institutions improve customer expectations, operational efficiency and visibility of their IT infrastructure.