

EDUCATION USE CASE

VERTICAL: EDUCATION

TOPIC: SCHOOL NETWORK OUTAGES

POTENTIAL CHALLENGE:

- Inconsistent network traffic due to network extremes
- Poor maintenance of the systems and networks that educational institutions rely on
- Difficulty budgeting for end-of-life issues leading to poor educational services
- Unknown source of network congestion causing slow downs

POTENTIAL SOLUTION:

NAGIOS XI

OPTIONAL:

NAGIOS NETWORK ANALYZER

POTENTIAL RESULTS:

- Proactive alerts of network inconsistency allows IT staff to resolve the impact of poor network performance
- Proper monitoring and effective maintenance of systems and networks improve student and staff experiences
- Effective network budgeting allows educational institutions to plan for the advancement of technology
- Identify areas in the school where network traffic is greatest and proactively solve issues that would arise

THE CHALLENGE

In today's educational institutions, the advancement and reliance on technology enable schools and universities to be more connected than ever by supporting digital learning solutions. However, with the improvement and expansion of technology, educational IT staff are faced with many new challenges.

Educational IT networks are unique in the fact that they are heavily utilized during school hours, Monday through Friday, but during off-peak times such as school breaks or weekends, the IT network remains inactive or underutilized. Because of the unusual and inconsistent nature of the network traffic, the network design has to be able to support these limits by consistently monitoring and alerting staff of system outages.

Additionally, an increase in network usage requires educational institutions to distribute a variety of network devices to facilitate the connectivity students and staff require. An increase of network devices not only requires IT staff to properly maintain but adds an extra layer of support burden for IT staff due to increased points of failure causing network outages as well as an increase of cost ultimately impacting their budget. Difficulty budgeting for end-of-life issues leads to poor educational services, student experiences and operational efficiency.

THE SOLUTION

Educational institutions can benefit from Nagios XI's comprehensive monitoring and alerting capabilities. By providing proactive alerts of network inconsistency, IT staff has the ability to immediately resolve the impact of poor network performance, drastically reducing downtime and keeping systems online and classrooms functioning. Proactive awareness of network and device outages enables IT staff to effectively maintain the systems and networks to improve student and staff experiences.

EDUCATION USE CASE

VERTICAL: EDUCATION

TOPIC: SCHOOL NETWORK OUTAGES

POTENTIAL CHALLENGE:

- Inconsistent network traffic due to network extremes
- Poor maintenance of the systems and networks that educational institutions rely on
- Difficulty budgeting for end-of-life issues leading to poor educational services
- Unknown source of network congestion causing slow downs

POTENTIAL SOLUTION:

NAGIOS XI

OPTIONAL:

NAGIOS NETWORK ANALYZER

POTENTIAL RESULTS:

- Proactive alerts of network inconsistency allows IT staff to resolve the impact of poor network performance
- Proper monitoring and effective maintenance of systems and networks improve student and staff experiences
- Effective network budgeting allows educational institutions to plan for the advancement of technology
- Identify areas in the school where network traffic is greatest and proactively solve issues that would arise

Monitoring key performance metrics provides invaluable information necessary to plan and budget for future system upgrades or prepare for required maintenance. Capacity planning graphs and reporting allow organizations to plan for upgrades and make intelligent financial decisions. Connectivity is an important aspect of educational institutions. By implementing Nagios XI, educational institutions can bring their monitoring to the next level by saving time, efficiently remediating issues and improving the ROI on their IT systems.

Often times a school campus has large auditorium spaces or classrooms that are served by a mesh of several wireless access points. By using the Business Process Intelligence (BPI) feature in Nagios XI, these access points can be grouped into a shared process and only be alerted when essential members go down or enough access points are not functioning to impact the user experience. This can help IT staff prioritize the tickets that are most important to the health of the network and users experience.

THE RESULT

Educational IT teams are faced with many challenges with the increase of digital learning solutions. Nagios XI allows IT staff to balance the constraints of limited budgets, support digital transformations and keep up with modern demands. IT staff can simplify the infrastructure management and extensively monitor critical system components with the implementation of Nagios XI.