Service Catalog

KanREN

KANSAS + NETWORKING + COMMUNITY

Connect, Innovate, and Secure Your Institution with KanREN Services

Join the Network that Powers Kansas Research, Education, and Community Anchor Institutions

KanREN operates at the forefront of technology services, specializing in research and higher education network technology and associated offerings for Kansas's profound research institutions and extending our capabilities to all community anchor institutions.

We forge the backbone that supports Kansas' education and research, empowering a culture of modernization. KanREN is not merely a service provider; we are your partner in progress. Through our state-of-the-art network infrastructure and our fidelity to cybersecurity, we sustain an environment where collaboration thrives, academic discoveries are realized, and innovation flourishes.

Discover an ecosystem created to amplify institutional capabilities within Kansas. Join us in this endeavor and unlock your full potential through the expansive range of services KanREN proudly provides.

Contact KanREN:

Office Address
KanREN, Inc.
2029 Becker Dr., Suite 282
Lawrence, KS 66047

Mailing Address
KanREN, Inc.
PO Box 442167
Lawrence, KS 66044

General Contact
Phone : 785.856.9800
Fax : 785.856.9877
Email : info@kanren.net

Technical Support
785.856.9820
support@kanren.net

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KanREN Service Catalog

Connectivity

KanREN, the national leader in public service connectivity, provides Internet and network technologies to research, education, and public service institutions in Kansas. Connect to the exclusive high-speed network that connects Research, Education and Community Anchors throughout Kansas KanREN brings speed, reliability, and responsiveness that is second to none.

High-Speed Internet Connectivity: KanREN's diverse network services include Access Circuit, Network Use, and Layer 3 (IP) connections. These services are backed by proactive 24/7 monitoring to ensure an uninterrupted network experience.

Internet2: As an essential part of KanREN's service catalog, Internet2 delivers advanced connectivity solutions. It acts as a vital bridge, fostering collaboration and innovation among members through reliable, high-speed Internet2 connectivity.

Internet2 Cloud Connect: Unlock the power of cloud computing with KanREN's Internet2 Cloud Connect. Seamlessly extend your data center to AWS Direct Connect, Google Cloud Partner Interconnect, Microsoft Azure ExpressRoute, or Oracle FastConnect. Leveraging four geographically diverse connection points on the high-speed Internet2 national network, this service ensures unparalleled performance and reliability for your cloud operations.

Internet2/GPN (I2 and I2PX): This transformative network service is tailored for research and education. I2PX offers high-speed, low-latency access to leading content providers such as Google, Zoom, and Netflix. With 300,000 routes and ongoing peering expansions, it ensures efficient and diverse connectivity. Supported by the Great Plains Network (GPN), I2PX advocates research collaboration and cyberinfrastructure across the Midwest and Great Plains.

DDoS Scrubbing: KanREN's DDoS Scrubbing service protects your online presence, ensuring uninterrupted availability and security.

KanREN's member-driven service model allows institutions to move forward with greater ambition, leveraging infrastructure and partnerships while paying exactly what services cost without a broker or markups. The next major step for Kansas success, led by KanREN, involves reliable, efficient, resilient, and uninterrupted dedicated fiber interconnecting the state. Let us explore the future together!

Information Management

KanREN's Information Management services offer a comprehensive suite of solutions designed to meet the diverse needs of Research, Education, and Community Anchors throughout Kansas. At the heart of these offerings is an exclusive high-speed network that ensures speed, reliability, and responsiveness. Let us delve into the key offerings:

Infrastructure Management: KanREN's Infrastructure Management service ensures your IT infrastructure operates effectively. It monitors and maintains critical IT components, maximizing resource utilization, safeguarding against data loss, and overseeing local and cloud-based services. This support allows your complex IT functions to meet business operational needs.

Web Hosting: With KanREN's web hosting service, your online presence becomes robust and accessible around the clock. Their seamless and reliable platform ensures your website thrives. Plus, their friendly and expert support team guides you every step of the way.

File Storage (StormCellar): Efficiently store files using KanREN's StormCellar, a cloud-based service co-located at backbone nodes. Access data quickly and reliably, with flexible storage options supporting AFP, NFS, and SMB/CIFS protocols.

Cloud Storage: Optimize data management with KanREN's Cloud Storage service, also co-located at robust backbone nodes. Seamlessly access and organize data using block-based packages (iSCSI protocol) or file-based packages (NFS and SMB/CIFS protocols).

Disaster Recovery/BC Site: Trust KanREN's disaster recovery service for methodical restoration after disruptive incidents. Minimize downtime and data loss through backup procedures, redundant systems, off-site data storage, and defined recovery processes.

System Services: Access essential system services via KanREN's offering. They provide a non-privileged shell account on a shared access virtual machine, pre-loaded with open-source client tools for seamless and efficient computing.

Storage Capacity Planning: Plan your storage needs confidently with KanREN's expert staff. Whether it is on-premises infrastructure or IaaS solutions, they will help strategize for optimal storage capacity.

These services collectively ensure that complex IT functions operate appropriately and meet operational goals.

Monitoring

From proactive 24/7 monitoring and rapid response times with Network Monitoring/Support to sophisticated traffic analysis and graphical visualization with Traffic Analysis/Graphs, our offerings empower organizations to streamline operations and enhance user experience. With NOC services for comprehensive network management, Speed Testing for accurate internet connection assessment, and Flow Analysis tools for advanced security optimization, KanREN is committed to supporting your organization's mission with cutting-edge technology and expert support.

Network Monitoring/Support: KanREN's Network Monitoring/Support ensures optimal network performance and rapid response times with proactive 24/7 monitoring and management. Our dedicated team of experts and cutting-edge technology provide tailored support for your organization's needs and goals.

Network Health/Utilization: Beyond standard monitoring, our Network Health/Utilization service utilizes advanced tools and methodologies to continuously verify network health and utilization. Gain detailed insights to optimize network resources and enhance user experience.

Traffic Analysis/Graphs: Our Traffic Analysis/Graphs service offers a sophisticated approach to network analysis, combining powerful tools with intuitive graphical representations. Visualize traffic patterns and network topology to manage, troubleshoot, and expand network infrastructure with confidence.

Network Operations Center (NOC): More than just monitoring, our NOC service offers comprehensive network management solutions. Streamline operations and enhance connectivity with swift response times, proactive monitoring, and seamless coordination, allowing you to focus on your organization's mission.

Speed Test: Experience a comprehensive assessment of internet connection quality with our Speed Test service. Hosted on dedicated sites, our industry-standard testing methodologies ensure accurate results for optimized online activities.

High Speed Internet Connectivity: Our High-Speed Internet Connectivity services offer modern options tailored to meet diverse organizational needs. Choose from Access Circuit, Network Use, and Layer 3 (IP) connections, backed by proactive monitoring and rapid response support.

Flow Analysis: Dive deep into packet flow data with our Flow Analysis service. Utilize advanced analysis tools to gather, decode, and analyze network traffic, empowering proactive monitoring, capacity strategizing, QoS policy enforcement, and swift security threat neutralization for optimized network performance and security.

Rely on our Network Monitoring/Support service for proactive 24/7 monitoring, ensuring optimal performance with rapid response times. Improve network performance with Traffic Analysis/Graphs and streamline operations with NOC services, ensuring seamless connectivity through Speed Test and optimizing security with Flow Analysis tools.

Security

KanREN provides a comprehensive suite of services designed to ensure the security, efficiency, and reliability of your IT infrastructure. These services include Infrastructure Management, Security Services, Firewalls, DDoS Integration, Vulnerability Scan, and Policy and Compliance Guidance. Each service is meticulously designed to meet your specific needs, ensuring a secure, resilient, and efficient online experience.

Infrastructure Management: KanREN's Infrastructure Management service is a comprehensive solution that monitors and maintains critical IT components. It maximizes resource utilization, protects against data loss, and oversees both local and cloud-based services. This service ensures that your complex IT functions operate appropriately and meet your business operational needs, thereby enhancing the overall efficiency of your IT infrastructure.

Security Services: Shield your network with KanREN's Akamai Enterprise Threat Protection Service. This proactive solution utilizes DNS resolution to safeguard against various cyber threats such as malware, phishing, botnet, and ransomware. Priced based on full-time employee count, this service extends protection to all users associated with the site, establishing a secure and resilient online experience for everyone.

Firewalls: Experience comprehensive protection with KanREN's Vulnerability Scan service. This service features an array of cutting-edge security measures such as Next-Generation Firewall, Intrusion Protection Service, Application Control, network-based Anti-Virus, Web filtering, and Network-based Anti Spam Services. Our service includes detailed log reporting via the KanREN NOC, ensuring that your network stays secure, compliant, and resilient against evolving cyber threats.

DDoS Integration: Safeguard your network with KanREN's DDoS Integration. This service provides cloud volumetric DDoS scrubbing at no additional cost for all KanREN connections. With the capability to absorb 2Tbps of attack traffic and deliver up to 100Gbps of clean traffic, KanREN protects your network during cyber attacks, keeping it secure and operational.

Vulnerability Scan: Stay ahead of cyber threats with KanREN's Vulnerability Scan service. This service offers quarterly scans of your network's external perimeter. Our dedicated team will meticulously test for known vulnerabilities and attack vectors, providing you with a comprehensive summary of findings and actionable mitigation suggestions to enhance your network's security posture.

Policy and Compliance Guidance: With KanREN's guidance, members gain invaluable insights to prevent and address cybersecurity threats effectively. This service safeguards against potential data loss, financial impacts, and reputational harm. Leveraging collective knowledge from peer experts across hundreds of institutions, KanREN offers world-class training and resources, positioning your staff at the forefront of cyber defense.

KanREN's comprehensive suite of services ensures that your network stays secure, compliant, and resilient against evolving cyber threats. By leveraging these services, you can focus on your core business operations, confident in the knowledge that your IT infrastructure is in safe hands. These services not only protect your network but also enhance its efficiency, making KanREN an indispensable partner in your journey towards digital transformation.

Optimization

KanREN, a high-speed network service provider, offers a wide range of optimization services designed to connect Research, Education, and Community Anchors throughout Kansas. With speed, reliability, and responsiveness that is second to none, KanREN ensures a seamless network experience for its members.

IP addresses: Offering flexible provisioning of IPv4 and IPv6 addresses tailored to your specific needs.

Software Reseller: Facilitates seamless software and hardware purchases, ensuring competitive pricing for products/services from other vendors.

Zoom: Offers a range of flexible and scalable options to elevate your virtual meetings and events.

Software and hardware sales/discounts: Provides access to numerous solutions at special discounted rates and a streamlined procurement process.

SaaS products: Embrace the simplicity and accessibility of Software-as-a-Service (SaaS), the preferred business model for digital products today.

DNS: Offers complimentary primary and/or secondary hosting tailored for members with modest needs.

CPE: Provides a friendly and supportive solution for managing both inbound and outbound traffic seamlessly.

LAN/LAN Support: Offers priority access to KanREN's technical team, facilitating architecture, engineering, troubleshooting, and operational support for their enterprise LAN.

Training and Education: Features an Annual Conference and targeted workshops or seminars on current technological trends.

Audio Visual Technology: Designed to enhance communication and problem-solving capabilities effectively.

Proxy Membership – GPN and I2: Provides access to Internet2 CAP (formerly SEGP) program services for all connected members.

Contract Vehicles/Buying Club: Offers access to various national buying clubs and contracts.

Network Troubleshooting: Supports your network's resilience and performance, offering a suite of solutions.

Engineering Analysis/Support: Delivers advanced support tailored to your needs and delivered upon member requests.

VM construction: Offers a range of Virtual Machines (VMs) tailored to suit your needs.

IT Consulting/Resources: Proudly extends our expertise and unwavering support to our members for seamless execution of network projects.

Domains: Offers complimentary domain control and hosting, streamlining management with our intuitive web interface.

KanREN is committed to providing a comprehensive suite of optimization services to meet the diverse needs of its members. With a focus on speed, reliability, and responsiveness, KanREN ensures that its members are well-equipped to navigate the digital landscape with confidence and ease.

Collaboration

KanREN, a national leader in public service collaboration, offers a comprehensive suite of services designed to elevate your organization's communication and networking capabilities. Our Collaboration Services provide a robust set of options for seamless and reliable communication:

Membership: Join a thriving community dedicated to collaboration and high-quality network services, empowering your institution to excel in the digital landscape.

Zoom: Our Zoom services offer flexible and scalable options for virtual meetings and events, ensuring a modern and efficient communication experience.

Training and Education: Stay ahead of technological trends with our workshops and seminars, accessible to both members and non-members, offering valuable learning opportunities.

Community: Strategically collaborate with KanREN and peers in the national community of RENs to shape state broadband landscapes and foster impactful projects.

Video QoS: Our Video QoS prioritizes traffic for higher fidelity site-to-site calling, ensuring seamless video communications.

Voice QoS: Prioritize VoIP/SIP traffic for clear calls, ensuring a seamless and reliable voice communication experience.

Internet 2 (I2): As an integral part of KanREN's service catalog, I2 provides secure high-speed connectivity and tailored services for research and education within the collaborative Internet2 community.

Great Plains Network (GPN): Foster collaboration and cyberinfrastructure support for universities and innovators across the Midwest and Great Plains with GPN.

Energy Sciences Network (ESnet): Connect to a high-performance network supporting scientific research and global collaboration for DOE-funded scientists with ESnet.

Fiber Broadband Association: Join the premier all-fiber trade association advocating for cutting-edge fiber networks and offering valuable resources for success.

SHLB Coalition USAC Funds: Bridge the digital divide with crucial financial backing for schools, libraries, rural healthcare providers, and broadband companies, ensuring accessible services and opportunities for education and growth.

Augmented Administrative Services: Streamline administrative tasks with our hassle-free management services, empowering you to focus on your organization's priorities.

KanREN's member-driven service model allows institutions to move forward with greater ambition, leveraging infrastructure and partnerships while paying exactly what services cost without intermediaries or markups. The next major step for Kansas success, led by KanREN, involves reliable, efficient, resilient, and uninterrupted dedicated fiber interconnecting the state. Let us explore the future together!

KanREN Services Glossary

Advance Network Infrastructure - Fuel your cutting-edge scientific research with KanREN's high-performance, scalable, and secure Advanced Network Infrastructure, facilitating seamless transmission and exchange of petabytes of data daily to accelerate discovery and innovation. Beyond research institutions and universities, KanREN connects government and public institutions, demonstrating our commitment to supporting the scientific and public community we serve.

Audio Visual Technology - Empower your team with KanREN's modern, approach to AV managed services, designed to enhance communication and problem-solving capabilities effectively. Aligned with your institution's needs and goals, KanREN ensures a tailored approach to understanding your IT objectives, enabling us to deliver solutions that mitigate risks and optimize productivity.

Augmented Administrative Services - Experience KanREN's Augmented Administrative Services, designed to streamline the tracking and management of administrative services including disbursement of special program funds to our valued members, conference management, and employment services. Our friendly and supportive approach ensures a hassle-free experience, empowering you to focus on what matters most.

Cloud Storage - Optimize data management with KanREN's Cloud Storage service, co-located at robust backbone nodes. Seamlessly access and organize data using block-based packages with iSCSI protocol or file-based packages through NFS and SMB/CIFS protocols.

Community - KanREN and its peers in the national community of Research and Education Networks (RENs) play a vital role in shaping state broadband landscapes. With extensive knowledge, unique partnerships, and a mission-driven spirit, KanREN strategically collaborates with Kansas Community Anchor Institution (CAI) members and broadband partners, offering efficient communication channels and guidance for impactful projects.

Contract Vehicles/Buying Club - KANREN offers access to various national buying clubs and contracts, including the State of Kansas KANREN Data Communications Contract #06807, eligible for purchase by state entities, Regents Institutions, and public K–12 school districts. Additionally, KANREN members can benefit from discounted pricing on VMWare products through The Quilt consortium, aggressive discounts on Akamai's Enterprise Threat Protection suite, and improved pricing on services such as Amazon Web Services and Microsoft Office 365 Education through the Internet2/CAP Higher Ed Net+ Services Open Subscription program.

CPE - Elevate your network security with KanREN's Managed CPE service, forging secure connections between your organization's internal network and KanREN's network. Offering firewall, NAT, DHCP server, VPN client, and WAN acceleration services, our approach ensures smart, remote configuration and monitoring, providing a friendly and supportive solution for managing both inbound and outbound traffic seamlessly.

DDoS Integration - Safeguard your network with KanREN's DDoS Integration, providing cloud volumetric DDoS scrubbing at no additional cost for all KanREN connections. With the capability to

absorb 2Tbps of attack traffic and deliver up to 100Gbps of clean traffic, KanREN protects your network during cyber-attacks, keeping it secure and operational.

DDos Scrubbing - Protect your online presence with KanREN's DDoS Scrubbing service, ensuring uninterrupted service and business continuity during cyber-attacks. Unlike CDN-based mitigation, our service safeguards across all ports, protocols, and applications in the data center, including web- and IP-based services, providing comprehensive and reliable protection for your network.

Disaster Recovery/BC site - Trust KanREN's disaster recovery service for a methodical approach to restore vital systems, data, and operations after disruptive incidents. Minimize downtime and data loss with backup procedures, redundant systems, off-site data storage, and defined recovery processes.

DNS - Elevate your network experience with our DNS service—offering complimentary primary and/or secondary hosting tailored for members with modest needs, providing a modern and convenient solution. For organizations with extensive requirements, including a large number of zones, entries, or frequent changes, our friendly and supportive team at KanREN is ready to explore personalized options, ensuring your connectivity meets the demands of the future.

Domains - KanREN offers complimentary domain control and hosting, streamlining management with our intuitive web interface. Our platform supports DNSSEC with a simple one-click setup, making it easy to add an extra layer of security to your domain.

Energy Sciences Network (ESnet) - Connect to the Energy Sciences Network (ESnet), a high-performance, unclassified network supporting scientific research. Managed by Lawrence Berkeley National Laboratory and funded by the U.S. Department of Energy's Office of Science (SC), ESnet serves over 50 DOE research sites, including National Laboratories and supercomputing facilities, fostering global collaboration for DOE-funded scientists.

Engineering Analysis/Support - Experience the advanced support of Engineering Analysis/Support from KanREN, tailored to your needs and delivered upon member requests. Our esteemed Technology team, recognized as leading REN experts nationwide, stands ready to champion your team's initiatives with unparalleled support and expertise.

Fiber Broadband Association - Join the Fiber Broadband Association, the premier all-fiber trade association in the Americas since 2001, dedicated to advocating for, educating, and providing resources to companies, organizations, and communities seeking to deploy cutting-edge fiber networks. This diverse membership includes providers, suppliers, consultants, consumers, policymakers, device makers, and application providers, representing the full broadband ecosystem and offering a range of valuable tools for success.

File storage - Efficiently store files with KanREN's StormCellar, a cloud-based service co-located at backbone nodes. Access data quickly and reliably with flexible storage options, supporting AFP, NFS, and SMB/CIFS protocols.

Firewalls - Experience comprehensive protection with KanREN's Vulnerability Scan service, featuring an array of cutting-edge security measures such as Next-Generation Firewall, Intrusion Protection

Service, Application Control, network-based Anti-Virus, Web filtering, and Network-based Anti-Spam Services. Our service includes detailed log reporting via the KanREN NOC, ensuring that your network stays secure, compliant, and resilient against evolving cyber threats.

Flow Analysis - Discover the power of KanREN's advanced flow analysis tools, meticulously crafted to gather and decode packet flow data, delivering essential insights into IP addresses, ports, protocols, and beyond. With these tools at your fingertips, our network administrators and researchers are empowered to proactively monitor performance, strategize capacity, enforce QoS policies, and swiftly neutralize security threats, all while navigating the intricate pathways of data packets within our network infrastructure to optimize bandwidth usage, elevate application performance, and reinforce against potential risks with confidence.

Great Plains Network (GPN) - Join the Great Plains Network (GPN), a non-profit consortium that fosters collaboration and cyberinfrastructure support for universities and community innovators across the Midwest and Great Plains. GPN aggregates networks through GigaPoP connections, providing access to high-speed Internet for big data projects and innovative ideas.

High Speed Internet Connectivity - Select from KanREN's modern network services, including high-speed internet connectivity and Layer 3 (IP) connections. Tailor bandwidth and support features, backed by proactive 24/7 monitoring for an uninterrupted network.

High-Speed Internet Connectivity - Explore KanREN's diverse network services, offering options like Access Circuit, Network Use, and Layer 3 (IP) connections.

Infrastructure Management - Manage your IT infrastructure effectively with KanREN's Infrastructure Management service, which monitors and maintains critical IT components to maximize resource utilization, protect against data loss, and oversee local and cloud-based services. This service helps your complex IT functions operate appropriately and meet your business operational needs.

Internet2 (I2) - Internet2, an essential part of KanREN's service catalog, delivers advanced connectivity solutions that empower members to thrive in today's digital landscape. It serves as a vital bridge, fostering innovation among members through reliable, high-speed Internet2 connectivity. This diverse community includes higher education, research institutions, government entities, corporations, and cultural organizations, promoting collaboration across various sectors.

Internet2 Cloud Connect - Unlock the power of cloud computing with KanREN's Internet2 Cloud Connect, seamlessly extending your data center to AWS Direct Connect, Google Cloud Partner Interconnect, Microsoft Azure ExpressRoute, or Oracle FastConnect. With four geographically diverse connection points leveraging the high-speed Internet2 national network, enjoy unparalleled performance and reliability for your cloud operations.

Internet2/GPN (I2 and I2PX) - Unlock seamless connectivity and enhanced performance with Internet2/GPN (I2 and I2PX), a transformative network service tailored for research and education. I2PX offers high-speed, low-latency access to leading content providers like Google, Zoom, and Netflix, empowering you to embrace network-intensive applications with ease. With 300,000 routes and ongoing peering expansions, I2PX ensures efficient and diverse connectivity, supported by the

Great Plains Network (GPN), advocating research collaboration and cyberinfrastructure across the Midwest and Great Plains.

IP addresses - Empower your network with KanREN's IP addresses service, offering flexible provisioning of IPv4 and IPv6 addresses tailored to your specific needs. Whether you require a standard assignment of 256 unique public addresses (also known as a /24) or a sizable IPv6 subnet, KanREN ensures prompt provisioning, typically within hours of the request, providing you with the necessary resources to expand and improve your network connectivity.

IT Consulting/Resources - Step into the future of network excellence with KanREN, where we proudly extend our expertise and unwavering support to our members for seamless execution of network projects. From emergency services to project-specific consulting, our highly experienced team, specializing in Wide Area Networking and Security for Community Anchor Institutions, ensures cost-effective, scalable solutions, leveraging decades of experience, partnerships, and robust infrastructure operation.

LAN/LAN Support - Experience the constructive collaboration of KanREN's network support seamlessly integrated with our expert consulting services. Members partnering with KanREN for LAN/LAN Support enjoy priority access to KanREN's technical team, facilitating architecture, engineering, troubleshooting, and operational support for their enterprise LAN through familiar communication channels like email, phone, and Slack.

Membership - Join the thriving community of Kansas institutions with KanREN's Membership, offering access to a consortium dedicated to fostering collaboration and providing high-quality network services. Regardless of your institution's size, the membership fee ensures equal access to a supportive network that facilitates communication and connectivity, empowering you to excel in today's digital landscape.

Multi-site – L3 VPN - Elevate your connectivity with KanREN's Multi-site L3 VPN service, offering cutting-edge IPSEC Site-to-Site VPNs for secure, encrypted communication between locations, tailored to your bandwidth needs. Our VPLS solution creates a seamless, private network that connects multiple campuses, ensuring a collaborative and unified network experience for every member.

Network Health/Utilization - Improve your network's performance with KanREN's Network Health/Utilization service, which uses multiple test and data sources to verify network health and utilization continuously. From Ookla Speedtest servers for user connections to perfSONAR installations at core POPs and Kentik Synthetics testing to major cloud providers worldwide, KanREN's proactive approach maintains a reliable and responsive network.

Network Monitoring/Support - Rely on KanREN's Network Monitoring/Support service for proactive 24/7 monitoring, management, maintenance, and operation of your network, ensuring optimal performance and rapid response times. With pricing per connection, benefit from active monitoring and response during and outside business hours, with maximum response times of 1 hour during business hours and 4 hours during secondary hours and holidays, providing you with peace of mind and reliable support.

Network Troubleshooting - KanREN's Network Troubleshooting services are here to support your network's resilience and performance, offering a suite of solutions including Custom REN Implementation, Emergency Consulting, and Technical Security advice. Whether it is proactive planning with our Pre-Paid Technical Consulting or setting up Enterprise Network Operations, our expert team is ready to assist in a friendly and approachable manner, ensuring your network operates smoothly and securely.

Network Operations Center (NOC) - Modern, reliable network management solutions are designed to streamline operations and enhance connectivity. With our forward-thinking approach, friendly support staff, and comprehensive service agreements, outsourcing Network Operations Center (NOC) services to KanREN ensures swift response times, proactive monitoring, and seamless coordination to keep your network running smoothly and securely, empowering you to focus on your mission with confidence.

P2P Connect - Empower secure and efficient communication between two locations with KanREN's P2P Connect service, establishing a Layer 2 data connection for a closed network. By bypassing the public internet, your data remains protected from potential threats, ensuring a secure and reliable connection that may even eliminate the need for extensive data encryption.

Policy and Compliance Guidance - With KanREN's guidance, members gain invaluable insights to prevent and address cybersecurity threats effectively, safeguarding against potential data loss, financial impacts, and reputational harm. Leveraging collective knowledge from peer experts across hundreds of institutions, KanREN offers world-class training and resources, positioning your staff at the forefront of cyber defense while actively participating in initiatives like The Research and Education Networking Information Sharing and Analysis Center (REN-ISAC) to enhance cybersecurity strategies and response capabilities for the benefit of all members.

Proxy Membership – GPN and I2 - Expand your network capabilities with KanREN's Proxy Membership, providing access to Internet2 CAP (formerly SEGP) program services for all connected members. Simplify billing with a single, integrated cost covering all Internet2 and GPN membership and connectivity fees, fostering collaboration and maximizing value for your organization.

SaaS products - Embrace the simplicity and accessibility of Software-as-a-Service (SaaS), the preferred business model for digital products today. Enjoy seamless functionality as maintenance and updates are expertly managed by hosting providers, making SaaS a user-friendly solution for growth without the need for special equipment.

Schools, Health & Libraries Broadband (SHLB) Coalition USAC Funds - Embrace the future with the Fiber Broadband Association, a pivotal supporter in bridging the digital divide by providing crucial financial backing for schools, libraries through E-rate, rural healthcare providers, low-income consumers via Lifeline, and broadband companies in rural and high-cost areas. Their commitment ensures that essential services and opportunities for education, health, and growth are accessible, fostering a more connected and empowered society.

Security Services - Shield your network with KanREN's Akamai Enterprise Threat Protection Service, a proactive solution that utilizes DNS resolution to safeguard against malware, phishing, botnet, and

ransomware threats. Priced based on full-time employee count, this service extends protection to all users associated with the site, establishing a secure and resilient online experience for everyone.

Site-to-Site (VLL) - Seamlessly connect with KanREN's Site-to-Site (VLL) service, a modern MPLS pseudowire providing point-to-point connections. Ideal for remote campus locations, this service ensures reliable data-link layer frame transport.

Software and Hardware Sales/Discounts - Harness the combined buying influence of national R&E networks through KanREN membership. Our member institutions enjoy the privilege of procuring from pre-negotiated Master Service Agreements with a diverse range of hardware and software partners, ensuring not only access to numerous technology solutions at special discounted rates and a streamlined procurement process but also guidance from seasoned experts well-versed in the unique technology requirements of public sector and educational institutions.

Software Reseller - Facilitate seamless software and hardware purchases with KanREN's Software Reseller service, ensuring competitive pricing for products/services from other vendors.

Speed Test - Experience the ultimate test of your internet connection's speed and performance with KanREN's Speed Test service, hosted on two dedicated sites. With Speedtest, you can easily assess the quality of your connection, ensuring optimal performance for your online activities.

Storage Capacity Planning - Plan your storage needs with confidence using KanREN's Storage Capacity Planning service, where our expert staff can assist in strategizing for on-prem infrastructure or IaaS solutions.

System Services - Access essential system services with KanREN's offering, providing a non-privileged shell account on a shared access virtual machine that comes pre-loaded with open-source client tools for a seamless and efficient computing experience.

Traffic Analysis/Graphs - At KanREN, we employ network traffic analysis to gain valuable insights into our network's performance, security, and user experience, using innovative methods to understand traffic patterns and optimize resources. Through intuitive graphical representations, we visualize network topology and traffic flows, empowering our community to proactively manage, troubleshoot, and expand our network infrastructure with confidence and ease.

Training and Education - Elevate your knowledge with KanREN's Training and Education services, featuring an Annual Conference and targeted workshops or seminars on current technological trends, designed to keep you ahead of the curve. These offerings are accessible to both members and non-members, with straightforward pricing per event per attendee for workshops and a one-time fee for the conference, ensuring valuable learning opportunities for all.

Video QoS - Enhance your video conferencing experience with KanREN's Video QoS service, which prioritizes H.323 traffic. Enjoy higher fidelity site-to-site calling by identifying and prioritizing high-priority traffic based on the source IP of member room systems or carts (codecs), ensuring a seamless and reliable connection for your video communications.

Virtual Machine (VM) Construction - Empower your projects with KanREN's VM Construction service, offering a range of Virtual Machines (VMs) tailored to suit your needs. Whether you require large,

medium, or small VMs, each comes with ample resources and unlimited network usage, all hosted on the reliable KanREN Network, ensuring a seamless and efficient computing experience.

Voice QoS - Elevate your voice communications with KanREN's Voice QoS service, prioritizing VoIP/SIP traffic to and from telephony service partners for crystal-clear calls. Enjoy the option of QoS Aware SIP Partner Voice Transport, ensuring a seamless and reliable voice communication experience.

Vulnerability Scan - Stay ahead of cyber threats with KanREN's Vulnerability Scan service, offering quarterly scans of your network's external perimeter. Our dedicated team will meticulously test for known vulnerabilities and attack vectors, providing you with a comprehensive summary of findings and actionable mitigation suggestions to enhance your network's security posture.

Web Hosting - KanREN's web hosting service offers a seamless and reliable platform for your website, ensuring your online presence is both robust and accessible around the clock. Our friendly and expert support team is here to help you every step of the way, making your web journey smooth and secure.

Zoom - Elevate your virtual meetings and events with KanREN's Zoom services, offering a range of flexible and scalable options to suit your needs. Whether you require expanded meeting capacities, cloud room connectors for H.323/SIP connections, or a virtual event platform with HIPAA Compliant PRO accounts, KanREN provides seamless integration and support, ensuring a modern and efficient communication experience for your organization.