Solutions for Today’s Challenges

INTERNET2 HAS BEEN SERVING THE RESEARCH AND EDUCATION COMMUNITY FOR OVER 25 YEARS
University Leaders are Under Pressure to Solve Major Challenges

Internet2 was created by universities and provides advanced technology infrastructure and services to support research, to help institutions enhance their operating environments, and to address all of these challenges, and more.
Internet2 is a national organization and community that exists exclusively to support the technology needs and missions of R&E institutions.

### Key Facts:

- **High-performance Architecture & Services (NETWORK):**
  - 320+ Higher Education Members
  - 44 Regional & State Networks
  - 60 Affiliate & Government Members

- **Integrated Cloud Services (CLOUD):**
  - 1000+ InCommon Higher Education, Research & Corporate Participants
  - 100+ Countries & Research Networks Connections

- **Community-developed Solutions (SECURITY):**
  - 750+ Eduroam Subscribers
  - 100+ University Net+ Subscribers

- **Collaborate with R&E Peers (COMMUNITY):**
  - 50+ Industry Members
  - 750+ Net+ Cloud Contracts
  - 100,000+ Community Anchor Institutions
A 5th Generation Internet2 Infrastructure
with high-performance architecture for the future of R&E

- Helping Institutions Connect to the Cloud
- Supporting Data Intensive Research
- Supporting Ecosystem-Wide Network Services
- Enabling Automation, Performance & Operations
- Driving Operational Economics & Scalability

- Embedded Security
- Bandwidth Abundance
- Norms for Routing Security
- Enterprise Support
- Regional/National Integration
- Software-Driven Infrastructure
- Secure Network Management
- Measurement Services
- Connected Research Computing
- Distributed Denial of Service
- Global Reachability
- Infrastructure Sharing

NETWORK
INTERNET2 PROVIDES:

→ the richest virtual R&E experience available by leveraging the largest and fastest national R&E network.

→ the most network flexibility and agility available built for limitless, unanticipated challenges.

INTERNET2 PROVIDES:

- 320+ universities, scientific & research facilities, data assets and HPC resources connected to
- 100 countries
- Across 65+ partner networks
- The 400G Internet2 network with zero congestion
- 30.4 Tb/s of optical capacity
- 15,700 miles of dark fiber capacity
- 350x the Library of Congress equivalent data moved every day

Learn More →
Global High-speed, Roaming Wi-Fi Service

for your researchers, students and staff wherever they are located

All of your institution’s users have seamless, secure and fast internet connectivity across campuses and millions of access points across the globe using your home institution’s credentials. And, you save precious resources by not provisioning guest Wi-Fi accounts.
Integrated Cloud Services & Capabilities
designed by and for the R&E community

SIMPLIFYING
Direct Access to Cloud Providers with Cloud Connect
- Cloud Access
- Best-in-class Cloud Services
- Pre-Negotiation
- Emerging Initiatives

SPEEDING
Deployment of Integrated & Customized Cloud Services with NET+
- Peering Capabilities
- Security & Accessibility Validation
- Cloud Risk Reduction

ACCESSING
Cloud Resources & Collaborators with InCommon Single Sign-on
- Rapid Private Interconnect
- Integration & Optimization
- Enterprise Support

SUPPORTING
Research & Enterprise with Cloud Grants & Credits

SHAPING
New Cloud Capabilities in collaboration with federal agencies
INTERNET2 PROVIDES:

→ easier and more secure access to the largest cloud providers to improve operations, increase capabilities and quickly ramp-up for evolving needs.

→ accelerated deployment of cloud services that are designed and customized by peers for rapid adoption, minimized risks and costs and maximum efficiencies and performance.

Learn More
20+ Leading Cloud Services
chosen by Internet2 members and tailored for R&E

Acquia
Amazon Web Services
Blackboard
Brightspace Learning Environment
Canvas
Code42
DocuSign
Dropbox Education
Duo Security
Google Cloud Platform
LabArchives
LastPass
Mitel/CenturyLink SIP Services
Panopto
ServiceNow
SkySync
Splunk Enterprise On Premise
Zoom
Supporting the R&E Community in the Cloud

Cloud Connect

Networking for the Cloud
- Simplified Direct Access to Cloud Providers

Secure Access to the Cloud
- Cloud Access with Secure, Trusted Single Sign-On

Training & Workforce Development
- Cloud Learning & Skills Sessions

Services, Procurement & Community Engagement
- Customized & Integrated Cloud Services

Enabling Research & Science for Computing Professionals
- Exploring Clouds for Acceleration of Science

InCommon Academy

CLASS

E-CAS

Customized & Integrated Cloud Services

InCommon

Cloud Access with Secure, Trusted Single Sign-On
InCommon-IAM

Identity & Access Management Suite
community-developed and collaboration-ready

SECURITY

SECURING
Access Across the Entire Ecosystem

SUPPORTING
Seamless & Secure Collaboration with InCommon Single Sign-On

EASING
Installation & Configuration with IAM software

EDUCATING
IAM Professionals at Every Level with InCommon Training

PROTECTING
Unlimited Web Servers for One Annual Fee with InCommon Certificates

☑ Secure SSO Access
☑ Single Credential
☑ Shibboleth, Grouper, COmanage, midPoint
☑ Trusted Federation
☑ Global Cloud Services Access
☑ Straightforward Installation & Configuration
☑ Integrated & Sustainable
☑ Guest Account Access
☑ Collaboration-Ready Trust Framework
INTERNET2 PROVIDES:

→ **simplified and trusted single sign-on access** for every user in your ecosystem through InCommon’s community-developed, collaboration-ready identity and access management suite. Your users access trusted single sign-on capabilities to collaborate with millions of people and thousands of applications.

→ **Cloud security, performance & analytics, and routing security programs** help campuses keep cloud information secure, identify problems, and get the latest on routing security issues.

Learn More →
Engage in a Community
of scholars, scientists, industry, government and more

- Participate with Passionately Collaborative Peers, Partners in Initiatives
- Benchmark Solutions & Insights from Peer Institutions
- Shape Internet2 Programs, Solutions & Deliverables
- Collaborate with Research Computing, Federal Agencies, Labs & Industry
- Connect with Members-Only Working Groups, Events & Governance

- Innovation in Action
- Community-Designed Solutions
- NSF, NIH, NASA, NOAA, Smithsonian
- Reduced Rates for Internet2 Events
- Global Computational Science
- Receive Research Support
- Leading-Edge Staff Skill Development
- International Collaboration
- Support R&E Mission
- Set Direction with Board & Program Advisory
INCORPORATE IMPACT:

and knowledge from the power of community, and support the work of your researchers, students and faculty as you collaborate, benchmark, share strategic insights and apply the most advanced technologies, services and partnerships available.

Learn More →
PARTICIPATE AS:

→ co-developers, co-investors and co-owners ensuring your institution’s technologies are always optimized for what's next—no matter how the world changes. Your needs are well-understood and factored into every Internet2 offering due to the high level of collaboration among members, industry partners and the broader R&E community.

Learn More →
Members Find Dollars & ‘Sense’ Value in Internet2

INTERNET2 members receive the benefit of a national network for a fraction of the total cost.

INTERNET2 member institutions have data egress fees waived for AWS, GCP and Azure.

With EDUROAM, institutions sharply reduce administration costs for Wi-Fi user support.

EDUROAM can be leveraged for 10 cents per student per year, and no costs for Internet2 higher education members.

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**Institution A**

- FTE: Approx. 2,500 Students
- Internet2 membership: $12,154 (Minimum sustaining contribution)
- With 1 Net+ service subscription:
  - Potential savings 100% of membership costs

**Institution B**

- FTE: Approx. 30,000+ Students
- Internet2 membership: $100,425 (Maximum sustaining contribution)
- With 1 Net+ service subscription:
  - Potential savings up to 100% of membership costs
- With 2 Net+ service subscriptions:
  - Potential savings 35%-65% of membership costs

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—for example purposes—
With Internet2
you position your organization to flourish, prosper and deliver results

With Internet2
you have access to the most advanced, agile, flexible and efficient technology platforms available

With Internet2
you are part of a community born from the interests and core needs of leading universities
Resources

Learn More

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NETWORK

CLOUD

SECURITY

COMMUNITY