Welcome to the NET+ Google Cloud Platform (GCP) wiki

Many Internet2 member institutions take advantage of this service offering. If your institution is one of them then this wiki will provide details on how to make the most of your participation of the programming and interact with peers across Internet2 member institutions.

This program is open to all US higher education institutions. There are additional access fees for institutions that are not members of Internet2. For details on how to join the program, please email netplus@internet2.edu.

You can also find out more about the Internet2 Cloud Connect offering for GCP Partner Interconnect.

Service Documentation and Resources

Accessibility:
- Voluntary Product Accessibility Template® (VPAT) - please email i2google@carahsoft.com
- NET+ GCP has an Accessibility working group - if you would like to join please email netplus@internet2.edu

Identity:
- GCP identities are closely tied to the GSuite environment - schools currently use Google Cloud Directory Sync to sync users and to populate Google Groups
- If you are interested in working on a recommendation for dynamic group population and Role mapping for authorization management - email netplus@internet2.edu

Information Security:
- Google Cloud’s HECVAT can be found on the REN-ISAC Cloud Broker Index

Contract and Pricing:
- NET+ GCP Enterprise Customer Agreement - please email i2google@carahsoft.com
- Looking to issue a Request for Proposal (RFP) for NET+ GCP - check out our template RFP language
- NET+ GCP is designed to be sourced from your preferred Reseller. Choose an existing program Reseller or bring your own!

Community Resources

Participate in our Subscriber Community:
Institutions participating in the NET+ GCP program may take advantage of our email discussion list and Slack channel to receive curated program updates and participate in other activities and events.

The NET+ GCP Service Advisory Board hosts regular subscriber calls where campus cloud teams meet to discuss their challenges, share lessons learned and collaborate to find the best answers for their institutions' GCP deployment. We regularly bring in Google engineers or product managers to discuss services and give feedback on how GCP features could best serve the unique needs of higher education institutions.

Please contact Bob Flynn bflynn@internet2.edu to be added.

Join the GCP Community Forum (Open to all community members):

Users of GCP are encouraged to join the #google channel in the EDUCAUSE Cloud Community Group Slack. See the Higher Ed Cloud Community page on the Cloud Wiki for instructions to join.

Collaborate on the Cloud Wiki:

Speaking of community, did you know about the Cloud Wiki? This was created specifically for YOU, members of the higher education community to collaborate with each other. Log in to see a Cloud Job descriptions page and contribute your knowledge!

Contribute Code:

Looking to share your latest Terraform config? Add it to the Cloud Wiki Helpful GitHub Repos list or email sjeanes@internet2.edu to request access and create a repo in the Community Cloud Config GitHub organization.

NET+ GCP Service Advisory Board

Membership

- John Bailey, Washington University of St Louis (Chair)
- Atul Pala, San Jose State
- Brian Pasquini, University of Pittsburgh
- Damian Doyle, University of Maryland, Baltimore County
- Erik Lundberg, University of Washington
- James Bennett, Indiana University
- Joshua Hyman, University of Pittsburgh
- Maneesh Aggarwal, Columbia University
- Nick Young, University of North Carolina, Greensboro
- Rikus Gosen, Massachusetts Institute of Technology
- Eric Rau, Michigan State University
- Sam Porter, University of Maryland
- Stratos Estathiadis, New York University
- Rick Rhoades, Penn State University
- Oren Streebny, Internet2, Staff Liaison
- Bob Flynn, Internet2, Staff Liaison

Send Feedback or Submit a Feature Request:

The NET+ GCP program is managed by an Internet2 program manager with the support of the NET+ GCP Service Advisory Board.

The NET+ GCP Service Advisory Board reviews and priorities community feature requests on a periodic basis. Feature requests may be submitted to netplus@internet2.edu.
Questions on Offers, Distributors and Resellers, Agreement Structure:

Find answers to frequently asked question in these Knowledge Base articles.

- NET+ GCP Subscriber FAQs and Overview
- Why does the program use Distributors and Resellers?
- Data Egress Fee Waiver
- GCP Teaching and Research Credits

Key Program Updates

Subscribers may review our mailing list archives for monthly program and GCP updates.

NET+ GCP January '22 Newsletter
Bob Flynn posted on Jan 10, 2022
The new year is underway and already there is a lot going on. I’m going to order this edition’s content based on how soon the deadline is approaching and how urgent it is for your attention.

Three Alarm

Kion Infoshare

Over the past year we have been hearing from schools in the higher education cloud community that they are looking for some help sorting through the plethora of 3rd-party tools swirling around the cloud infrastructure space. The top needs expressed were:

1. account automation and maintenance
2. security monitoring and remediation
3. cost tracking management and savings

One product specifically suggested and already being piloted by a few schools is Kion (formerly known as cloudtamer.io). We asked Kion to show the community around their tools and answer your questions.

- What: Demo of Kion.io’s cloud enablement tools with a focus on higher education enterprise cloud use
- When: Tuesday January 11 at 11am PST/2pm EST
- Where: Register for zoom link
- Will it be recorded? Yes. It will be posted on the Higher Ed Cloud Community page

Research Innovators Program

Google Cloud is committed to supporting researchers across the globe who are solving complex challenges. As part of our efforts, we are relaunching the Google Cloud Research Innovators program. Applications are open until January 14th, 2022. To apply, please fill out this short form. For additional information about eligibility for the program, please visit the Research Innovators overview.

Two Alarm

Funding opportunity from NSF + Google
For the second year in a row, Google has partnered with the National Science Foundation (NSF) to offer cloud funding and training through CISE-MSI solicitation 22-518. The CISE-MSI program offers $7M in funding for PIs at Minority-Serving Institutions (see list here). Applicants who request funding for Google Cloud via NSF 22-518 are eligible for a 50% match in cloud funds from Google, expanding their total possible NSF award amount by the matched number. Awardees will also gain access to free, live, instructor-led workshops and classroom tools from Google Cloud. Applications are due February 11th, and details for how to apply can be found in the solicitation documentation.

Program Satisfaction Survey

One of the vital roles of the NET+ team is to bring the community together, making and sharing opportunities to learn from each other and from the cloud vendors. NET+ Program Development Manager Tara Gyenis has put together a brief survey to get your take on how well we are doing with community engagement. We also want your feedback on vendor (GCP) and resellers’ performance. The survey is designed to get input from everyone from the cloud team to procurement to management. We ask that you share it with others at your institution. Please respond by January 31, 2022.

Speaking of engagement...

One of our most powerful engagement tools are our meetings. Yeah, yeah, I know, meetings… But no, seriously. When we bring you, the members of the community together, magic happens. The sharing of challenges, successes, approaches, obstacles, plans, etc. sparks some of the best conversations and most productive networking and collaboration.

We are sprucing up the NET+ GCP engagement calendar for 2022. Here’s what we have planned. Calendar invitations to come out soon.

- **NET+ GCP Technology** – We are going to spin up something new for the NET+ GCP program that has already been very successful in the NET+ AWS program – regular “open mic” technical discussions. These calls are for your GCP architects, admins, etc. to discuss technical questions and challenges you might encounter when managing Google Cloud at your institutions. We’ll share the questions, answers, lessons learned and challenges that remain. (monthly to start)

- **NET+ GCP Subscribers** – By adding the technical call, the Subscribers meeting will be able to focus more on strategic discussion. The target audience will be the cloud managers, infrastructure directors, etc. who drive cloud enablement and infrastructure strategy. Twice over the course of the year we’ll ask you to invite your leadership and we’ll invite GCP and Google Edu leadership to attend as well. (quarterly)

- **NET+ GCP Town Halls** – We will bring the community together to learn from Google (or other presenter/panel) about a big picture topic/approach/strategy/trend. Attendees come away from these sessions with greater understanding of the topic and how they might take advantage of this knowledge within their institution, where to go to learn more, etc. Community interest will drive the topics. If you have ideas, please send them to bflynn@internet2.edu.

We will be sending calendar invitations to all of these to the NET+ contacts we have. Please accept the invitations for the meetings that interest you and decline the rest. And please do forward them on to others in your organization for whom they may be appropriate.

Make a difference in your community. Join the NET+ GCP SAB

While NET+ Cloud IPS Manager Bob Flynn provides the staff time to address program mechanics and keep things running, it is the NET+ GCP Service Advisory Board (SAB) that provides the leadership and guidance to move the program forward. We are seeking new voices, new schools and new perspectives on the SAB. Make 2022 the year you get more involved in this community. Help make a difference to schools all across the country. Submit your name to be on the NET+ GCP SAB by emailing netplus@internet2.edu.
ICYMI – For higher education community, choosing Google Workspace for Education is a team effort

GCP administrators have always had to be cognizant of the connection between GCP and Google Workspace. Increasingly Google Workspace users are leveraging GCP in both subtle and sophisticated ways. In a nod toward keeping your GCP teams abreast of developments with Google Workplace for Education, I recommend this blog post by Steven Butschi, Head of Education for Google. It recounts the hard work done by many of you in this community to bring Google to the table to work out a path to grow with Google’s cloud and productivity platforms.

Credits

The images in this newsletter come from a variety of sources. Credit where credit is due.

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Requests?

Do you have ideas or requests for a future newsletter or engagement event? Email bflynn@internet2.edu

Events

GCP Summer Camp

This one is red hot because the first Camp session takes place today (6/23) at 11 am PT/2 pm ET. If you missed out on earlier announcements, there is still time to register and attend. Today’s topic is a Showcase of Teaching and Learning Use Cases. You absolutely want to check these out. Naturally, we will make recordings available later, but we'll hope you'll join us live. Go on, register now. The rest of the newsletter will be here when you get back.

NET+ GCP Subscribers Call
The next GCP Subscribers call is currently scheduled for Tuesday, July 6 at 11:30 am PT/2:30 pm ET. I am going to push that back a week to Tuesday, July 13 (same time) because all of the Googlers are off that week. (Nice, huh?) If you have topics you would like to see discussed, let me know and I’ll add them to the agenda. If they would benefit by having Googlers in the conversation, I’ll make those invitations. Send me your suggestions and requests at bflynn@internet2.edu.

**News and Notes**

**Are You Making STRIDES?**

I hope your campus is working to make STRIDES available to all of your NIH-funded researchers. Wait, you aren’t familiar with STRIDES? Wha?? OK. No shame in that. Go read this. It’s not long. We’ll wait. Alright, so you want to get moving with STRIDES, but there are...issues. No worries, tell us what they are. We want to help you be a star for your researchers. Take a couple of minutes (no more than five, really) to fill out this STRIDES Adoption Barriers survey so we can help you remove them.

**The Training Landscape**

If you watch the online cloud training space you will have noted the purchase of Linux Academy by A Cloud Guru in 2019. Now comes word that A Cloud Guru is being acquired by Pluralsight. The NET+ GCP program has been working with Pluralsight for our Professional Cloud Architects training cohort. They’ve been great partners. Maybe this will make them even better to work with going forward. Stay tuned.

**Opportunities to Get Involved**

**Help Us Get Creative with Teaching**

I am working with the team supporting faculty for teaching and learning. Think curriculum, compute credits for class, Qwiklabs credits, etc.. We are looking to brainstorm with some faculty who teach using GCP (or would like to) and cloud teams who want to develop programs to make it easier for faculty to do so. If you or someone you know would be interested in giving us feedback, possibly piloting some things on your campus, please email me at bflynn@internet2.edu.

**What Services Are You Missing?**

A school does not succeed with GCP alone. Shocking, right? In order to make cloud a success at your campus, it takes a solid platform but also management and security tools, training, code repos, unit testing tools, and more. Well, I want to know what you are using and what the community would get behind for new NET+ services with better contract terms to match our collective effort. I’ve spelled this effort out in the first of a series of blog posts. Take a minute to read the post and share your thoughts.

**Resources**

Accelerating Student Success with AI
Long-time friend of the higher ed GCP community, Jesus Trujillo Gomez, has written a nice article about Google’s services to help institutions increase student success. It’s a quick but informative read.

### Platform/Service Comparison

If you have come to GCP from another cloud platform or you are trying to speak GCP to your AWS colleague (and need a translator) or maybe you have to manage all three platforms and you’d like your head to stop spinning for just a moment. Check out this new cross-platform product map put together by the Google team.

### Platform Conversion

Not quite religious conversion, but close. While this is technically an Event, It was an event in the past so I’m calling it a Resource. Feel free to edit your copy of the newsletter if you disagree. Back in April the Googlata held a couple of Cloud OnAir sessions, one each for AWS professionals moving to GCP and Azure professionals moving to GCP. They cover a lot and are quite informative. You may just be coming to GCP and have a frame of reference from another platform. These will help speed your journey.

### Not Your Grandma’s GCP Cheat Sheets

OK, so maybe your grandma was the kind of GCP dev who didn’t need cheat sheets, but if she did, you can bet they would have been the purplish ink on white paper and smelling of mimeograph fluid kind, not these fun and amazing works of art by Google developer advocate Priyanka Vergadia. While you are on her site, check out the About tab for other excellent resources. (And kids, if you don’t know about mimeograph machines, go ask grandma.)

### From the Slack-o-sphere

If you aren’t on the Cloud Computing Community Group Slack workspace you are missing out on the higher ed cloud conversation with your peers. (Jump over to https://tinyurl.com/edu-cloud-community to find the latest join link.) Here are a couple of tips that popped up recently in the #google channel.

- Object storage vs block storage vs file storage: which should you choose? | Google Cloud Blog
- Have a cool summer with BigQuery user-friendly SQL
- Domain-wide Storage Reporting using Built-in Usage Exports to BigQuery & Data Studio
- BigQuery provides tighter controls over data access | Google Cloud Blog

### Thanks

#### Content

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