NET+ GCP

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 Online Community (Subscribers Only):

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 netplus@internet2.edu to be added.

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

Users of GCP are encouraged to join the GCP Community 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
- Joshua Hyman, University of Pittsburgh
- Maneesha Aggarwal, Columbia University
- Nick Young, University of North Carolina, Greensboro
- Olu Brown, Massachusetts Institute of Technology
- Eric Rau, Michigan State University
- Stratos Efstathiadis, New York University
- Rick Rhoades, Penn State University
- Oren Sreebny, Internet2, Staff Liaison
- Bob Flynn, Internet2, Staff Liaison

To Contact the Service Advisory Board

- Email: gcp-campus-advisory@internet2.edu

Questions?

- Internet2 NET+ Service Management netplus@internet2.edu
- Carahsoft Customer Team i2google@carahsoft.com
- Reseller Contacts
- Internet2 Program Manager: Bob Flynn bflynn@internet2.edu

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.

LabArchives releases Jupyter Notebooks integration

NET+ LabArchives reached 20 subscribers earlier this year. The Electronic Lab Notebook (ELN) is being used successfully enterprise wide by tens of thousands of faculty and researchers in the Internet2 community. In the coming months, the NET+ LabArchives Service Advisory Board members will evaluate for inclusion in the NET+ program two other LabArchives products: LabArchives Scheduler, which has ~70,000 users worldwide, and LabArchives Inventory. Recently, LabArchives integrated with Jupyter Notebooks. The new integration with Jupyter Notebooks empowers users to capture data science, scientific computing, and machine learning workflows within LabArchives ELN for Research.

NET+ GCP offers the easiest path to use of the NIH STRIDES program

The National Institutes of Health STRIDES program offers deep discounts on cloud usage for NIH-funded research work. Enrolling an institution to take advantage of STRIDES with NET+ GCP only requires filling out an additional order form with your chosen NET+ GCP reseller. For more information on using NET+ GCP with STRIDES check out our blog post or email netplus@internet2.edu.

NET+ AWS campuses implement AWS Organizations and Control Tower

AWS Organizations and Control Tower are AWS features that help institutions to manage and govern their multi-account AWS environments. The NET+ AWS Organizations and Control Tower working groups have helped map out strategies for campuses to successfully implement Control Tower in their AWS environments, and Internet2 published a post by Peter Traub outlining the implementation of Control Tower at the University of Virginia. If you are interested in participating in these working groups, please email netplus@internet2.edu

- aws
- gcp

GCP Project Audit scripts shared

Our colleague Nick Young at UNCG has shared his scripts for auditing IAM settings on projects within a GCP organization. The scripts use Python on GCE, pushing the results to BigQuery.

The scripts are available at https://github.internet2.edu/nyoung/gcp-gce-project-audit-bq

Thanks, Nick!

- gcp

Using Terraform with Google Cloud Project Factory to provision GCP accounts

Eric Straavaldsen from UW Madison has shared some code for provisioning GCP accounts with Terraform and Google Cloud Project Factory. The example code configures a repo with three folders mapping to three risk levels (inspired by NIST 800-53).

The code can be found in the Internet2 Cloud Config Github repository at:

https://github.internet2.edu/cloud/GCP-Terraform-Cloud-Project-Factory
• gcp