

# Cloud and IT Infrastructure Team Services

Work in progress to update this page to reflect the consolidation of the cloud and on-prem infrastructure team.

## Purpose

This page is a high-level summary of the services offered by the ITS Cloud Team.

## List of Services

- Computing Fundamentals
  - Infrastructure architecture, design, and implementation (mostly internal customers, to do with ITS operations)
  - Networking, reverse-proxying, load balancing (again, mostly for internal ITS operations)
  - Backups (systems, files, file shares, databases, appliances, etc.)
  - Virtual machines (Amazon, Oracle)
    - Windows
    - Linux
  - Enterprise and Individual/Personal Storage
    - Windows file shares (Amazon, obsoletes/replaces on-premise Windows File Shares)
      - FSX-backed
      - S3-backed
    - Linux NFS file shares
    - S3 Glacier long-term / archival storage
    - Disks attached to virtual machines
- Server Administration and Monitoring
  - Operating system updates and patches
  - Response to Qualys vulnerability reports
- Centralized, standardized, secure, and/or mass end-user computing -- setup, administration, operations

- ITS virtual computer labs (<https://remoteaccess.uri.edu>)
    - GIS software - instructors for Dept of Natural Resources Science
    - MATLAB - research team in College of Health Sciences
    - GMatrx - instructors for College of Business
    - Engineering software -- possibly for College of Business
  - AWS AppStream
    - ViewVM -- for URI Facilities
    - SAS, SPSS, R for instructors and teaching
  - AWS Workspaces (VDI-like environment)
    - Experimental use -- ITS staff, secure remote access to sensitive data
  - R Studio (<https://rstudio.uri.edu>)
  - Jupyter Hub (<https://jupyter.uri.edu>)
  - Hosted Websites, Databases, and Applications
    - Website hosting
    - MySQL database hosting
    - SQL Server database hosting
    - Oracle database hosting
  - Application Admin/Support
    - Zabbix system monitoring (<https://zabbix1.its.uri.edu>), for ITS and distributed IT use
    - Sunapsis - URI International Student Office case management software application
    - LegalFiles - URI Office of General Counsel legal case management software
    - REDCap (<https://redcap.uri.edu>) - Research survey platform
  - Facilitation, Implementation, and Consultation
    - Replacement of anything with an Amazon service
    - Migration of anything to an Amazon service
    - Special one-time projects using Amazon services (e.g. NASA satellite orbit processing/analysis by researcher)
    - Design and implementation of new data processes for business process improvement
    - Automation, integration, scripting
    - Process improvement
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Chris Faraone

- Active Directory
- AD user object clean up
- AD auditing report
- AD computer object clean up
- Windows Event Log Collector
- Windows server updates, etc.
- Distributed File Server

Bob Watterson

- PeopleSoft --> AD/Google "connector"
- Password change backend soupy
- Password change page
- Linux server maintenance
- Helping Jill with offboarding -- ITS
  - AD status
  - Windows and Linux servers
  - Special AD/Azure admin users
- DFS and nas01 migration

## Brad Jaspersen

- DNS, Umbrella, DHCP, NTP, SMTP, Arpwatch
- On-Prem Tyler and Warwick VM clusters (200+ vms)
- AWS Backup for VMWare
- Various subnets management & firewalls
- GSuite
- Windows and Linux servers
- Templates
- ... add more...
- ... a lot of similar stuff to above...
- Ton more stuff, going to see how others phrase things before duplicating to keep it consistent

## Emmanuel Pinywah

- General area: Oracle databases
- Projects:
  - Foundation migration into OCI
  - Migration of RAC databases to elsewhere
  - Perceptive Content migration
    - database server provisioned in OCI
- Routine:
  - Database patching
  - Ad-hoc requests for permissions, updates to database structure/data
  - Ad-hoc help for other SQL Server instances
  - Monitor RAC database backups, health

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## Projects:

- Windows 2012 and Windows 2016 servers
  - Windows Update Servers
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