

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
 - GMatix - 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

Projects:

- Windows 2012 and Windows 2016 servers
 - Windows Update Servers
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