Arkloud™

Apps > My Apps

My Apps

📁 My Apps   🔑 Request Access   ⊙ Create Virtual Machine

Web Apps
This selection lists all the web applications you have privileges to access. If you do not see an application you need please click on the request access link above

Coder   GitLab   VDI

Virtual Machines
This selection lists all the Virtual Machines that you have configured. You can modify the VMs with the buttons in each tile. You can only edit a VM that is stopped
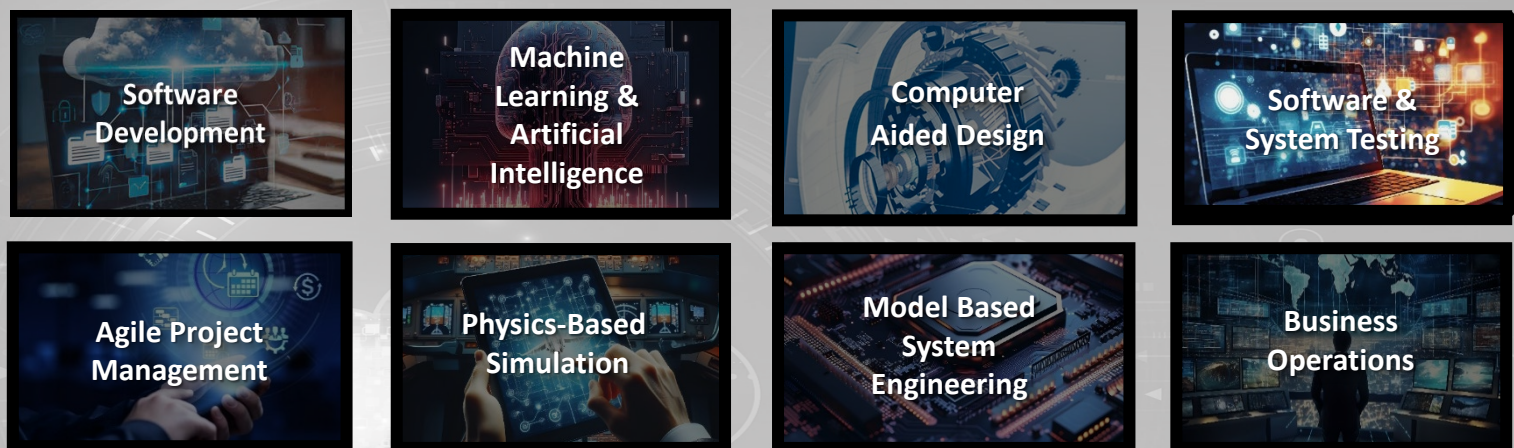
Windows — Edit   Delete
Linux — Edit   Delete

UNCLASSIFIED

A distributed environment where government and contractor teams can collaborate in a secure manner.

Navigation: Arkloud Portal · Home · My Tasks · Members · Virtual Machines · App Catalog · My Tools · Profile · Help · Theme · Sign Out · v2.7.0-rc15

Software Development

Machine Learning & Artificial Intelligence

Computer Aided Design

Software & System Testing

Agile Project Management

Physics-Based Simulation

Model Based System Engineering

Business Operations

Arkloud provides an extensive toolkit of technologies and patterns to streamline solution innovation. From low-level embedded software to cutting edge web-clients and everything in between.

Check this out!

FORCE

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Capabilities and Features

Account Management

- Sign in using Microsoft Authenticator, CACs, PIV Cards, and OTPs
- Full approval process to create and manage groups of users/teams
- Interacts with Identity Management Providers (like EntraID and Keycloak) to generate and manage users
- Support role-based permissions
- Customizable User Account Request process that supports all steps of a digital DD2875 via multiple approvals

Source Code Management

- Git based source code management and version control using GitLab
- Support for groups and projects
- Self managed, role-based access for projects and groups
- HTTPS cloning restrictions by IP-Range to prevent cloning of sensitive source code outside of the cloud

Agile Project Management

- Manage backlogs in GitLab
- Support task dependencies and multiple assignments
- Rollup tasks from all projects from a group into a single backlog
- Graphical Kanban and sprint boards

Self-Service Virtual Desktops

- Access virtual desktops for Windows 11, Ubuntu and RedHat
- Shared drives for data and applications
- Dynamically configured by users
- SaltStack provisions software on each user VM. Many existing SaltStack options available
- Leverage Azure Virtual Desktop, enabling "BYOD" model to get into the environment
- Full lifecycle management, permissions, quotas, and budgeting

DevSecOps Pipelines

- Fully automated and manually triggered pipelines in GitLab
- Includes static scanning of source code supporting a wide range of programming languages
- Create and scan container images
- Trigger via webhooks

Web-Based Development

- Develop and Test code completely in your web browser using coder enterprise
- Run a light-weight coding environment in Kubernetes
- Light weight WebIDE in Gitlab

"Collaboration with a vision!"

License / Restricted Access

- Vendor Specific Licensing Models and Management (Per user, concurrent user models, and per system models)
- Open Policy Agent (OPA) Zero Trust policy engine
- Limit new virtual machine resource allocations by choosing the operating system, size, and installed software

Package / Library Management

- Request packages for popular languages such as: Javascript (NPM), Go, C/C++ (Conan), .Net (NuGet)
- Request packages for software installations such as Yum and Chocolatey
- Transfer and install the packages into the environment for developmental usage automatically
- Completely track and audit available packages

Tailored Capabilities

- Integrated software tools:
- AFSIM – Full AFSIM Desktop and DevSecOps Pipeline
- Flight Test Data – Custom Flight Test data management suite
- Virtual system lab, prototypes, vulnerability data analytics tools

Technical Description

Arkloud is built on the Azure government-based cloud environment, with Azure Mission Landing Zone (MLZ) as our Secure Cloud Computing Architecture (SCCA). Arkloud communicates in real time through Microsoft Office 365 government. The solution is fully accredited with NIST SP 800-53 Rev 5 and ATO granted for IL5.

Users can access Arkloud capabilities on NIPR net and other US government networks.