

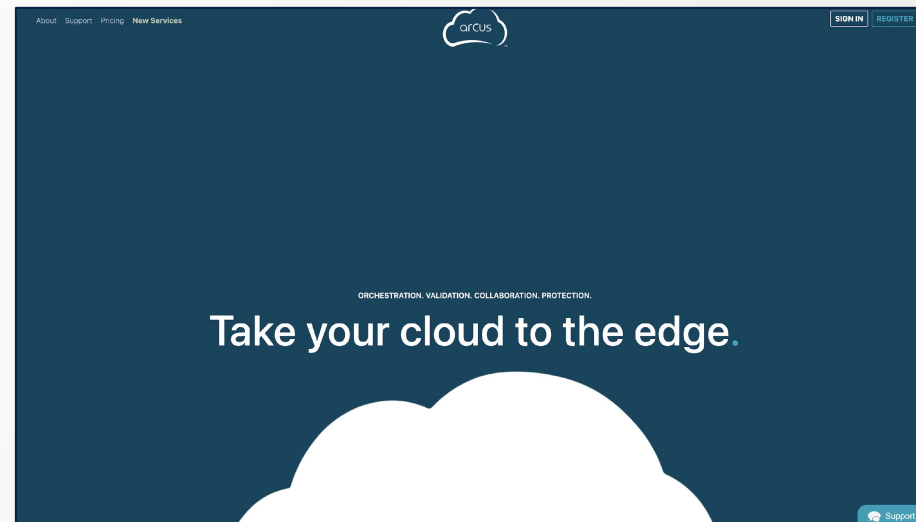


# Overview

# Arcus

**makes users more successful, productive and secure  
in any cloud, using any technology.**

**It is the platform for where & how to get things done!**



**Arcus is a DoD Software as a Service, providing cloud and security orchestration to program offices and organizations.**

**The Arcus team has been delivering cloud since the beginning of adoption in the DoD.**



# The Whole Package

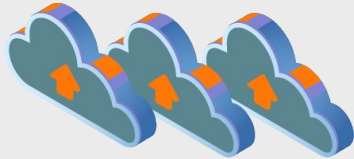
Because just cloud is not enough....



# How does Arcus work?

## Arcus delivers cloud and security and orchestration in Government ...

*across multiple clouds and platforms...*



*with ease of use...*

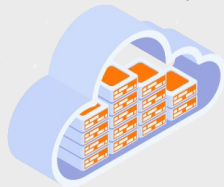


*and users' favorite tools.*



## It provides self service access to automated...

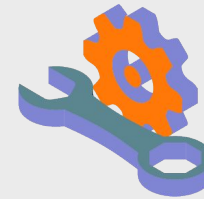
*configuration & compliance  
of cloud infrastructure for creating  
enclaves;*



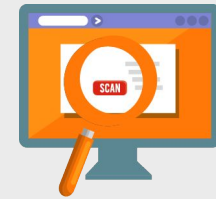
*provisioning of machines, apps,  
containers, services, data, etc;*



*source code builds,  
pipeline automation;*



*and ElasticTest™, for  
validation & security scans*



## Along with...

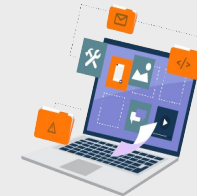
*workable security controls for  
development thru production*



*access to shared library of assets for reuse of  
knowledge investment;*



*and a whole new level of system design  
discipline, access, and data sharing.*



# Collaboration Tools

## Services

- GitLab (Premium, Ultimate)
- Atlassian Suite & Plug-ins
  - Jira
    - Plug-ins:* Advanced Roadmap, Agile Poker, Checklist, Configuration Manager, Git Integration, Insight, OKR Board, Optimizer, Prometheus Pro, Risk Management, ScriptRunner
  - Confluence
    - Plug-ins:* Advanced Roadmap, Agile Retrospectives, Comala Document Mgmt, draw.io, Presenter, Prometheus Pro, Questions, ScriptRunner
- BitBucket
  - Plug-in:* ScriptRunner

## Features

- Up thru IL5 (unclassified)
- IL6 (secret)
- PKI enabled, single sign-on
- Centralized user management
- Per user pricing
- Migration support
- Transition data storage





**How do people use Arcus?**

# User Communities

## DevSecOps

- Continuous integration & delivery
- Infrastructure as code
- Use favorite tools



## Cyber Security

- Private space
- Use favorite tools
- Get started today
- Flexible resources
- Remote access



## Cloud & Platform Migration

- Compliant architecture
- Accreditation artifacts
- Security tools
- CSSP services



## Platform Delivery

- Build to specific communities
- Rapid deployment
- Tiered support
- Leverage existing accreditation
- Reuse DoD investment



## Integration & Test

- Integrate teams real time
- Uncover issues early
- Hands on collaboration



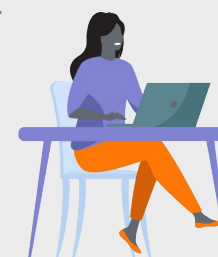
## Exercises & Events

- Connect programs & industry
- Private & joint spaces
- Evaluation phases



## Training

- On-demand resources
- Customize curriculum
- Freedom to try & fail
- Rinse/repeat



## Desktops in the Cloud

- Simple, easy access
- Multiple uses cases:
  - engineering, coding, mod & sim, ML/AI
- Automated patching & deployment



# Major Impact

## Key Metrics

- More than **15M+** hours of deployed systems unclassified site
- **5,000+** registered users across all sites
- More than **600,000** systems launched
- More than **50,000** reusable assets including applications, test, security and lockdown
- ATOs at multiple classification levels
- **9+** years of operations
- New features every **one-two weeks**
- **Doubled** on premise cloud capacity each of last four years
- **24/7** utilization by user community from CONUS, EUCOM, PACOM

	<b>US Air Force</b>	<ul style="list-style-type: none"> <li>• Unified Platform</li> <li>• AF-DCGS</li> <li>• ESCAPE</li> <li>• HNX PlugTests</li> <li>• 90 COS</li> <li>• Global SIEM</li> <li>• Digital Eng Cloud</li> </ul>	<ul style="list-style-type: none"> <li>• NC3 PEO</li> <li>• Green Dragon</li> <li>• CROWS</li> <li>• STRATCOM</li> <li>• AFRL/RW</li> <li>• AFRL/RV</li> <li>• Data Services</li> </ul>	<ul style="list-style-type: none"> <li>• FMS</li> <li>• JCC2</li> <li>• SAF A1</li> <li>• R-EGI</li> <li>• 33 NWS</li> <li>• USAFA</li> <li>• LogFin</li> </ul>
	<b>US Army</b>	<ul style="list-style-type: none"> <li>• PCTE</li> <li>• OMFV</li> </ul>	<ul style="list-style-type: none"> <li>• MEDCOM</li> <li>• CPBs/CPTs</li> </ul>	
	<b>US Navy</b>	<ul style="list-style-type: none"> <li>• NOOC FWB</li> <li>• OPNAV CIO</li> </ul>	<ul style="list-style-type: none"> <li>• DCGS-Navy</li> <li>• PR-SAR-T</li> </ul>	<ul style="list-style-type: none"> <li>• NAVSEA</li> </ul>
	<b>US Marine Corps</b>	<ul style="list-style-type: none"> <li>• DCGS-MC</li> </ul>	<ul style="list-style-type: none"> <li>• 81CPT</li> </ul>	
	<b>US Space Force</b>	<ul style="list-style-type: none"> <li>• Digital Engineering</li> <li>• NCMC</li> </ul>	<ul style="list-style-type: none"> <li>• SSC CIO</li> <li>• Minuteman3</li> </ul>	
	<b>JFHQ-DODIN</b>	<ul style="list-style-type: none"> <li>• Cyber Red Team Platform</li> </ul>		
	<b>Joint AI Center</b>	<ul style="list-style-type: none"> <li>• Joint Common Foundation (JCF)</li> </ul>		
	<b>DOT&amp;E</b>	<ul style="list-style-type: none"> <li>• RaaS</li> <li>• Red Teams</li> </ul>	<ul style="list-style-type: none"> <li>• Cyber community</li> <li>• Cloud Security Assessment</li> </ul>	
	<b>SOCOM</b>	<ul style="list-style-type: none"> <li>• J632</li> <li>• KM</li> </ul>	<ul style="list-style-type: none"> <li>• J2</li> <li>• J3</li> </ul>	
	<b>OUSD R+E</b>	<ul style="list-style-type: none"> <li>• Mission Integration</li> </ul>	<ul style="list-style-type: none"> <li>• Acq Data Analytic</li> </ul>	
	<b>DISA</b>	<ul style="list-style-type: none"> <li>• Storefront</li> <li>• RMK</li> </ul>	<ul style="list-style-type: none"> <li>• Forge.mil</li> <li>• DCO</li> </ul>	
	<b>DLA</b>	<ul style="list-style-type: none"> <li>• EBS Sustainment</li> </ul>		



# User Accomplishments

- 400% more test coverage
- Shortened time between release from 6 months to 6 weeks
- Reduced bugs from 100+ to 5 per release

- *HBBI*

Deployed 60 operational (STIG'd) servers on SIPR in two days

- *DISA BDC*

Critical support for Cyber PlugTest rapid acquisition model

- *HNJX*

Most comprehensive OT assessment of external system

- *DoD Red Teams*

- Six dev teams integrating seven applications in HmC [Arcus] every week.
- Reduced Fortify code scan review times from 6-10 weeks to only 1 day

- *HBGJ*

Potential to save \$1M+ per SIL

- *FMS*

Team of 20 worked on similar idea for two years with no success

- *Intel Agency*

87% reduction in test execution time

- *DLA*

"[HmC/Arcus Team] did some great work, this is crazy!"

- *33<sup>rd</sup> NWS*

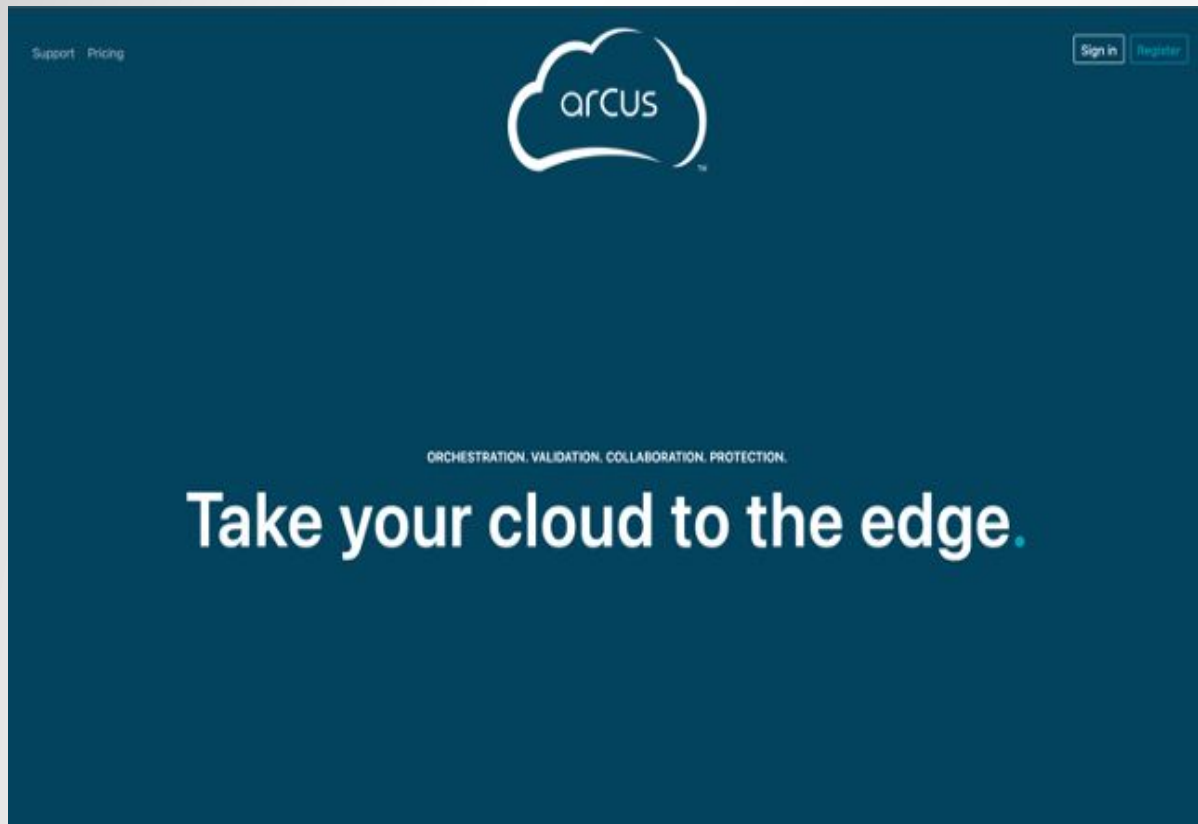




**Demo**

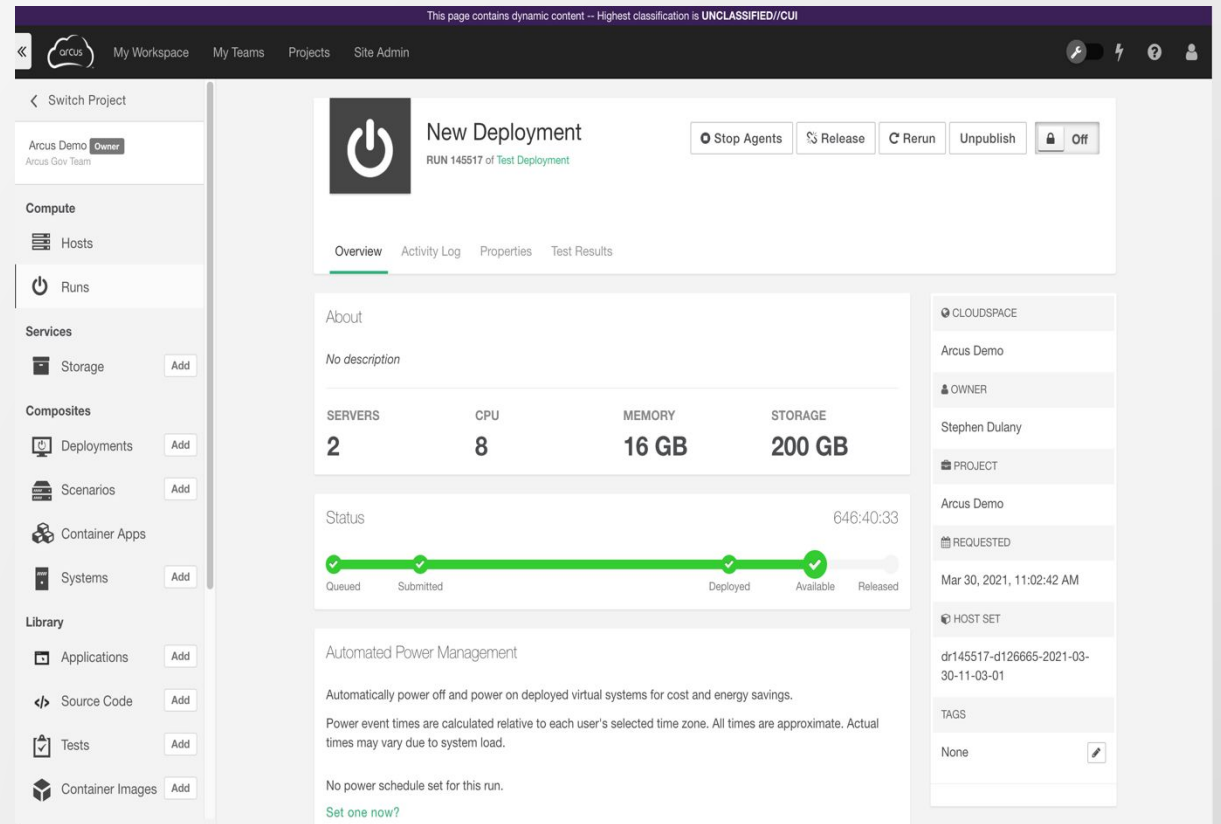
# Demo

## Main Page



The screenshot shows the main page of the Arcus dashboard. At the top left, there are links for "Support" and "Pricing". The Arcus logo is centered at the top, with "Sign in" and "Register" buttons to its right. Below the logo, the text "ORCHESTRATION. VALIDATION. COLLABORATION. PROTECTION." is displayed. The main headline reads "Take your cloud to the edge." A sidebar on the left contains navigation options: Compute (Hosts, Runs), Services (Storage), Composites (Deployments, Scenarios, Container Apps, Systems), and Library (Applications, Source Code, Tests, Container Images). Each option has an "Add" button.

## Deployment Run Screen



The screenshot shows the "New Deployment" screen in the Arcus dashboard. The top navigation bar includes "My Workspace", "My Teams", "Projects", and "Site Admin". The main content area is titled "New Deployment" and shows "RUN 145517 of Test Deployment". Control buttons include "Stop Agents", "Release", "Rerun", "Unpublish", and "Off". The "Overview" tab is active, displaying a progress bar for the deployment status: Queued, Submitted, Deployed, Available, and Released. A table shows resource usage: 2 Servers, 8 CPUs, 16 GB Memory, and 200 GB Storage. The "About" section is empty. The "Automated Power Management" section explains that power is automatically managed for cost and energy savings. A sidebar on the right shows metadata for the deployment, including the project name "Arcus Demo", the owner "Stephen Dulany", and the requested time "Mar 30, 2021, 11:02:42 AM".

SERVERS	CPU	MEMORY	STORAGE
2	8	16 GB	200 GB



# Express Interface

This page contains dynamic content -- Highest classification is UNCLASSIFIED//CUI

arcus Upload Files ? 👤

## My Workspace

Deploy systems into the cloud with ease.

### New Deployment

No description

For support deploying these hosts, contact:

**Stephen Dulany**  
stephen.dulany@jackpinetech.com

### 102 Demo 2

No description

For support deploying these hosts, contact:

**Ian Ellett**  
ian.ellett@jackpinetech.com  
P: 4439744664

### Demo Composition

No description

For support deploying these hosts, contact:

**Ben Walsh**  
ben.walsh@jackpinetech.com  
P: (617) 755-1751

### database

No active connections

### webserver

No active connections

### host1



# Key Features

## Automated Security

- Baked into design & execution
- Application quality
- Configuration discipline & management
- Source Code Analysis
- Industry Best Practice Lockdown
- Vulnerability Scans
- Penetration Testing
- Patch Management
- Policy Enforcement
- Monitoring Configuration & Analysis
- Entire Ecosystem into Design
- Validate Alternatives in Real Time

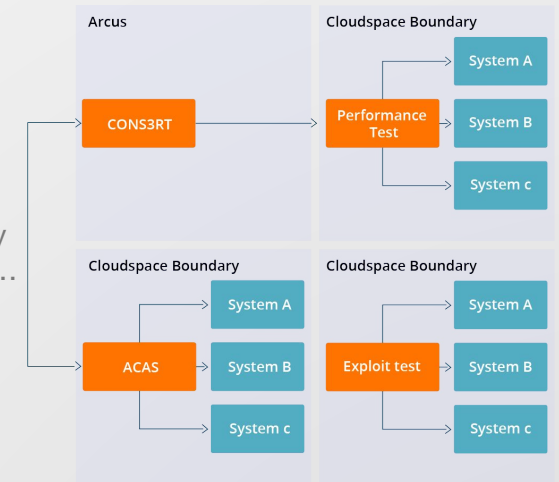


## ElasticTest

- Built on-demand
- Tool is local so it can reach its target
- Less disruptive traffic
- Isolated activities
- Efficient use of license investment
- No management of system necessary
- No expertise required to execute but...
- Power users can still customize

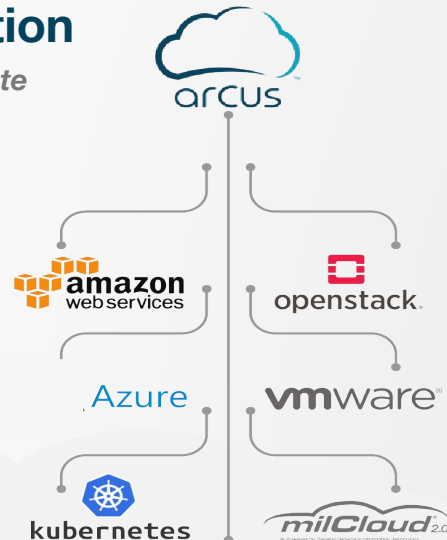
### Enabled Tools

- Tenable Nessus • HP Fortify
- Web Exploit • Worksoft Certify
- CA LISA • Script, Powershell
- smartBear SoapUI • Sonarlint



## Cloud & Platform Abstraction

- Not **Public** vs. **Private** but **Public & Private**
- IaaS is already commodity
- Make choice real time based on:
  - Performance • Cost
  - Security • Access
  - Tasking • Location
- Unified interface
- Consistent access to system
- Portability, scalability, availability
- Make elasticity more than a buzz word



## Remote Access

- Secure, encrypted access to deployed systems
  - RDP, VNC &/or SSH
- File transfer
- Clipboard to/from local machine
- All via browser, **no plugin required!**
- Accredited solution
- Proven performance
- Built in load balancing
- Removes major barrier to adoption
- Works across all cloud technologies
- CAC Pass-thru



# And many more...

- **Express Interface**
- Data Impact Level (IL) Governance
- Mobile Devices & IoT Clouds
- **Cloud Resource Manager (Cost Control)**
- Snapshots
- **Containers**
- System Resource Resizing
- Instance Limits
- Asset states
- **Smart Card Pass Thru**
- Certified Assets
- CloudOne Support
- **Cloud Network Management**
- Offline System Install & Config
- Cloud & Cloudspace Security
- ReST API, Jenkins Plugin, & SDKs
- Cloud portable system designs
- **On-demand Platforms**
- Teams
- Slack Integration
- Custom User Properties
- **Storage Service**
- Asset Builder Wizard
- vGPU capabilities

*New releases every one - two weeks*



# Key Services

For organizations that don't have the resources for a DIY approach, the Arcus team offers additional services:

## Asset (Automation) Development

- Software components
- Simple to complex environments
- Training

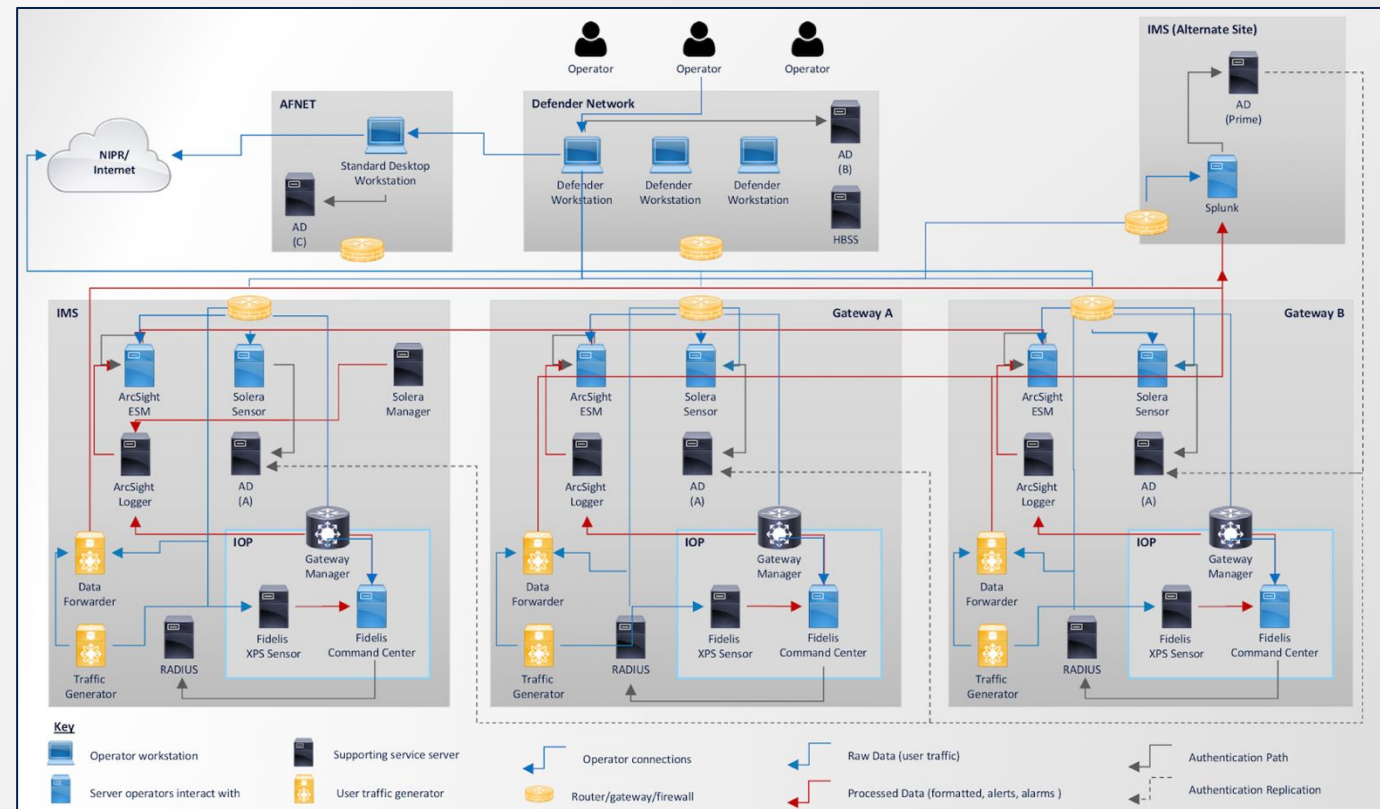
## Cloud Migration

- Architecture
- Application Migration
- CSSP services

## Event Support

- Program management support
- Subject matter expertise
- Evaluation and assessment

Example: Complex Environment

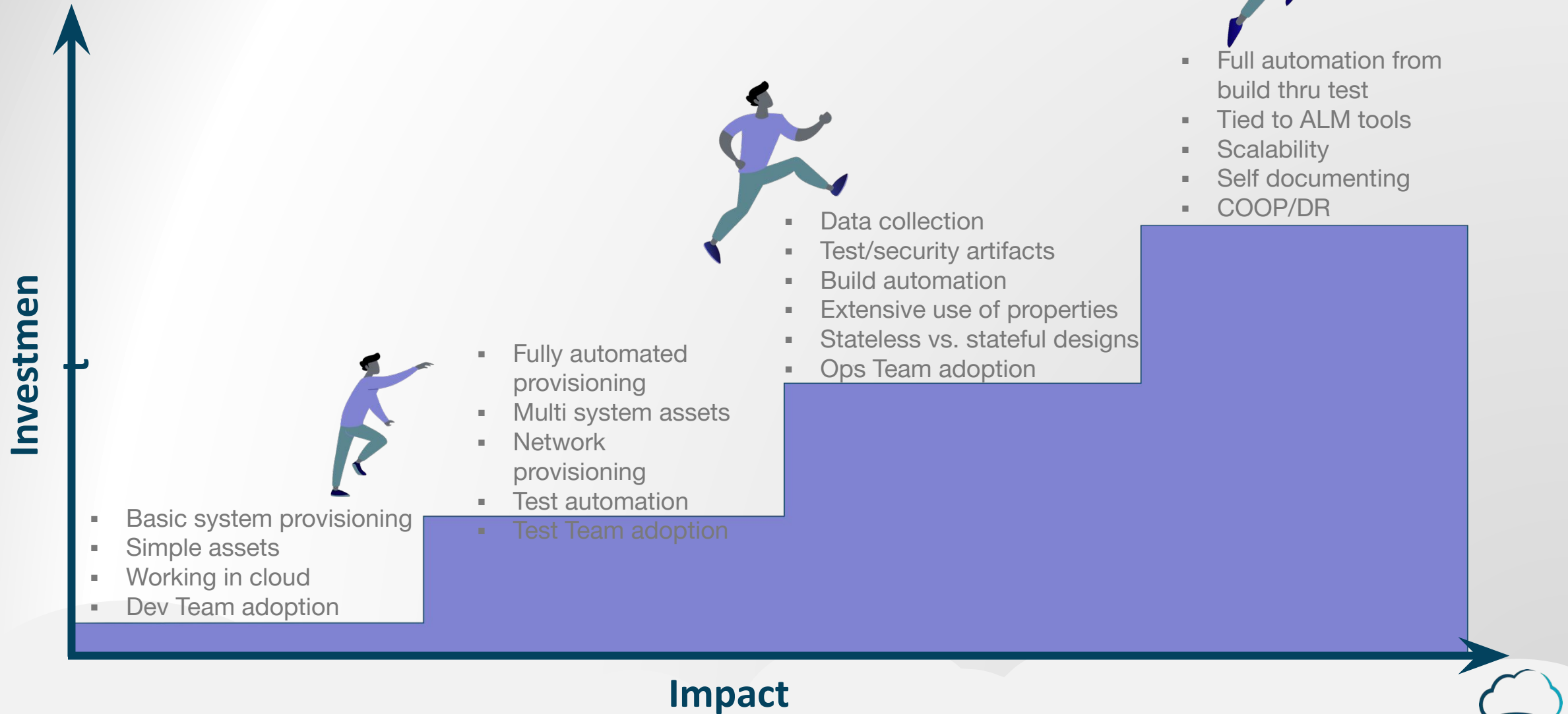




# Getting Started



# Adoption



# Training & Resources

## User Training

- Standing sessions
  - 101 - Arcus Overview (First Thursday )
  - 201 - Getting Started (Second Thursday)
  - 301 - Power User (Third Thursday)
  - 401 - Asset Development (Fourth Thursday)
- Access Info
  - Time: 1200-1300 EST
  - Presentation: <https://join.me/arcus-community>
  - Audio: (857) 444-6500,755461813##
  - For those unable to use join.me, please use the Teams link
- Also available on-demand, direct to your team

## Help Center

- Knowledge Base
- Video Tutorials
- Support links
- Getting Started information
- API Documentation

## GitHub

- <https://github.com/cons3rt>

## Asset Development

- Training
- Service

### Contact Us

*Contact Us* link on the site  
Email: [support@arcus-cloud.io](mailto:support@arcus-cloud.io)



# Video Tutorials

- If you would like to see **Arcus** in action, feel free to check out the video tutorials:
  - On the Arcus Help Channel at <https://www.youtube.com/c/arcushelpchannel>
  - Embedded in the articles on our [Help Site](#)
- If you have any suggestions for future videos, let us know by submitting a ticket

The screenshot shows the YouTube channel page for 'Arcus Help Channel', which has 1K subscribers. The navigation menu includes HOME, VIDEOS, PLAYLISTS (selected), COMMUNITY, CHANNELS, and ABOUT. A red 'SUBSCRIBE' button is visible in the top right. Below the navigation, there is a search icon and a 'Created playlists' section with a 'SORT BY' dropdown. The playlists are arranged in two rows of five items each. Each item features a cloud icon with text and a video count, a title, and a 'VIEW FULL PLAYLIST' link.

Playlist Title	Video Count	Updated
Express User Interface	8	Updated 4 days ago
Developer	15	Updated 4 days ago
Storage Service	5	Updated 4 days ago
Getting Started	34	Updated 5 days ago
Video Tutorials	76	Updated 4 days ago
Profile & Account	10	Updated 5 days ago
Teams & Projects	13	Updated 4 days ago
Remote Access	15	Updated 4 days ago
Test Tools	4	Updated 4 days ago
Deployment Run Walkthrough	13	Updated 4 days ago





**Thank you**



# User Communities

# Community: DevSecOps

- Continuous integration
- Continuous delivery
- Infrastructure as code
- Continue to use favorite tools
  - Ansible
  - Salt
  - Chef
  - Puppet
  - Scripts
- Deploy true hybrid environments
  - virtual machines
  - containers
  - physical systems



# Community: Integration & Test

- Reduce effort on environment building to focus resources on testing
- Increase available test resources
- Integrate teams real time with development
- Uncover issues early
- Hands on collaboration
- Leverage automated testing
- Automate bug entry



# Community: Cyber Security

- Ranges on demand
- Customizable scenarios
- Multiple Uses
  - Training
  - Exercises
  - Missions
- Battle tested
  - Joint Forces HQ (JFHQ-DODIN)
  - NSA Certified Red Teams
  - Range as a Service (RaaS)
  - USAF Cyber Defense Squadron
  - Persistent Cyber Training Environment (PCTE)





# Community: Exercises & Events

## ■ Product Evaluations

- Real world scenarios
- Actual results
- CyberPlug Test model
  - problem statement
  - identical workspace
  - evaluation phase
- Supports acquisition requirements

## ■ Exercises

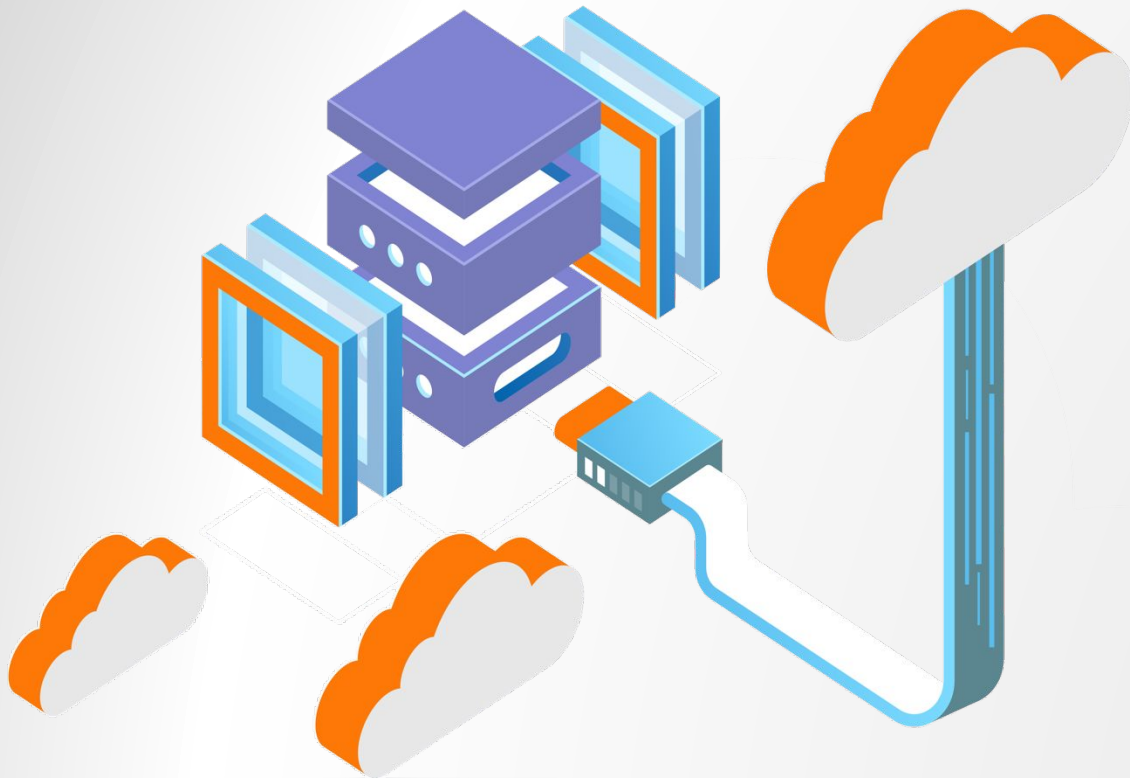
- Collaborative space
- Easy access
- Controlled sharing



FORTINET



# Community: Cloud & Platform Migration



- Evaluate the current state of application
- Implement a compliant architecture
- Accreditation artifacts
- Security tools
- Tier 3 CSSP services
- Navigate DoD CAP and Cloud SRG
- Multiple cloud support
- Create cloud neutral designs
- Even move to other DoD platforms
  - milCloud/milCloud2
  - CloudOne
  - PlatformOne



# Community: Training Platform



- On-demand & elastic resources
- Customizable curriculum
- Freedom to try & fail
- Express vs. full user mode
- Single or multi-user options
- Real world scenarios
- Self service
- Instructor control over content



# Community: Platform Delivery

- Build to your solution and focus on your community needs
- Rapid deployment of infrastructure and applications
- Dramatically reduce ramp up time
- Elastic resources
- Minimal upfront costs
- Tiered support
- Leverage existing accreditation
  - inherited controls
  - control responses
- Reuse investment DoD has already made



# Community: Desktops in the Cloud

- Simple, easy access for users
  - with controlled access to meet security requirements
- Multiple uses cases:
  - engineering workstations
  - software development
  - modeling & simulation
  - machine learning & artificial intelligence
- Access to physical systems too:
  - IoT
  - Appliances
  - Non-traditional equipment
- vGPU resources
- Automated patching & deployment



# Support

- Support

- <https://arcus.mil/support>
- Submit a ticket through...
  - the *Support* link on the home page
  - the *Help* icon when signed in
- Help icon tickets provide more data on what the user was working on

- Email

- [support@arcus-cloud.io](mailto:support@arcus-cloud.io)

- Knowledge Base

- <https://arcus.mil/kb/>
- The Knowledge Base expands on all the topics covered in this training.

- Github Sample Assets

- <https://github.com/cons3rt>

Support Pricing Blog

arcus

SIGN IN REGISTER

## Support

### Training

There are a variety of ways to get help using CONS3RT. If you are new to the site, be sure to check out the resources below:

#### Training

We have four training programs for beginner, intermediate, and advanced users listed below. Please contact Jackpine Technologies through the "Support" button below to arrange a custom training program.

- Overview (for Beginners) PDF
- Power Users (for Intermediate to Advanced users) PDF
- Getting Started (for Beginners) PDF
- Asset Development (for Intermediate to Advanced users) PDF

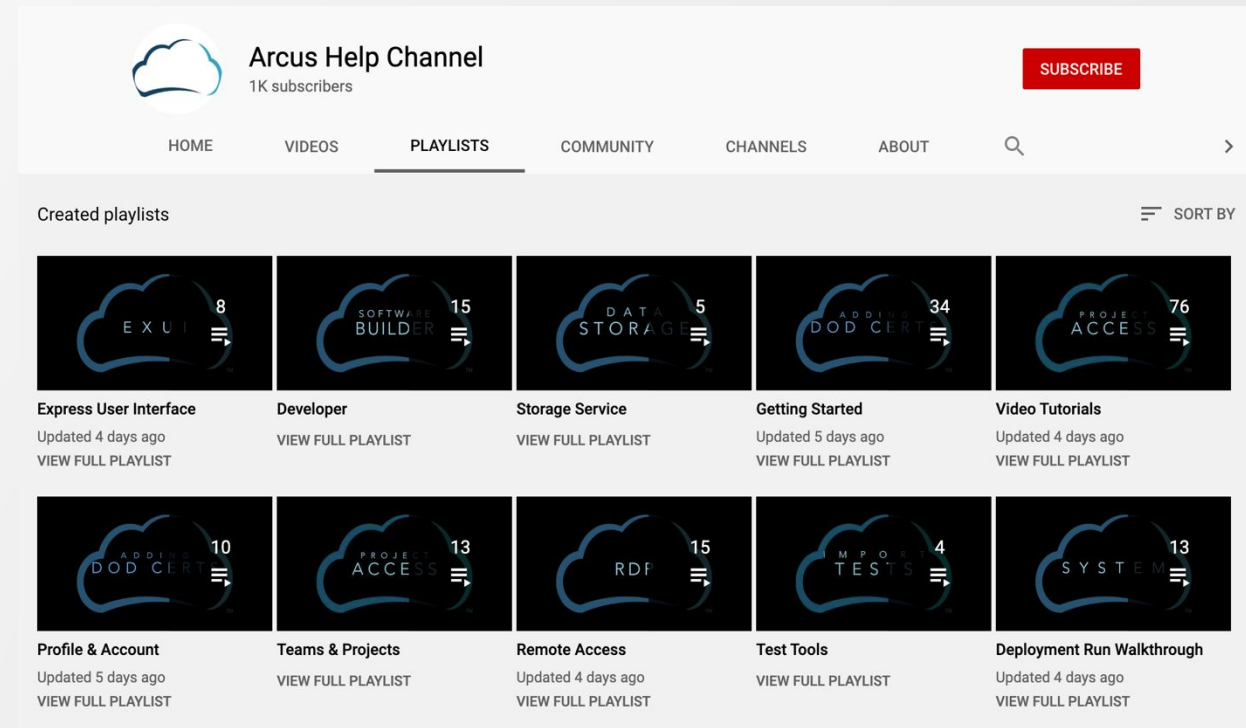
### Getting Started Video Guides

Listed below are our YouTube playlists for video tutorials on getting started with CONS3RT. In addition, We have established a **CONS3RT repository** to provide users with several source code and software asset samples available for download.



# Video Tutorials

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