



**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON, DC**

21 June 2021

MEMORANDUM FOR USSF FIELD COMMANDS, MAJCOMs, DRUs, HAF DISTRIBUTION C

FROM: SAF/CN
1800 Air Force Pentagon
Washington, DC 20330-1665

SUBJECT: Migration Guidance for Department of the Air Force Enterprise Cloud Services

References: (a) SAF/CN publication, "Air Force Cloud Computing Strategy", Sep 2019.
(b) DoD Memorandum, "Interim Guidance for Implementation of the Department of Defense Cloud Strategy", Apr 2020.
(c) DoD Memorandum, "Designation of Enterprise Service Provider for DevSecOps", May 2020.

Cloud computing is a critical component in building the rock-solid digital foundation for our Department of the Air Force (DAF) enterprise and mission IT capabilities. Leveraging cloud at scale for business and mission needs will increase mission effectiveness, enable access to critical decision data and collaboration tools, and provide a platform to fuse vast amounts of data to accelerate Department of Air Force (DAF) decision-making seamlessly across all levels of classification. Per guidance in Reference (b), we need your assistance to ensure the DAF remains compliant with Department of Defense intent to streamline and phase out program specific cloud data services, and migrate them to an approved enterprise solution. Beyond compliance, we cannot afford to maintain numerous stove-piped cloud environments, all of which must be continuously updated with the latest functionality, security features, and interoperability standards to remain competitive in the 21st century. We must do this together. Further, this is effective benchmarking against all of the top technology companies in the world.

In an effort to better support our DAF mission, we hereby mandate that:

- Cloud One shall be used for Unclassified workloads that have not already begun migrating to the cloud, and first right of refusal shall be given for Secret workloads;
- All organizations currently using an Unclassified non-enterprise cloud solution shall provide a written justification for their use of a program specific cloud, including any requirements missing from Cloud One, within 60 days of the date of this memo;
- Teams that would otherwise stand up a separate cloud environment in order to add new capabilities shall do it in collaboration with the Cloud One team and make those capabilities available to the entire enterprise;

Our SAF/CNSE POC's, Col Randolph Witt (randolph.witt@us.af.mil) and Mr. Andrew Doye (andrew.doye.1@us.af.mil) are standing by to answer any initial questions and help guide you in the right direction on your journey to the cloud.

LAUREN BARRETT KNAUSENBERGER, SES, DAF
Chief Information Officer

Key Components of Cloud One

Cloud One is a multi-hybrid cloud environment with centrally-funded hosting that utilizes both Amazon Web Services and Microsoft Azure to host the Air Force's enterprise general purpose applications at the Impact Levels (IL) 2, 4 and 5, and 6 (i.e. SIPR). As of May 2021, Cloud One can support SECRET workloads in AWS and MS Azure. Additionally, Cloud One is able to support IL2 workloads in Google Cloud Platform (GCP) and will soon host higher levels of classification in both GCP and Oracle cloud offerings. When you are ready to begin or continue your cloud journey, the Cloud One team will discuss your capability needs and provide a way forward with an approved delivery partner.

One of Cloud One's core offerings is the Application Analysis and Refactoring capabilities, known as Migration-as-a-Service (MaaS). MaaS allows the Air Force and its vendor partners to modernize your applications to maximize the benefits of hosting in the cloud. Cloud One has formalized the MaaS offering into a simple 3-step process where (1) they gain a deep understanding of your systems, (2) perform analysis and determine which platform will precisely suit the mission's needs, and (3) optimizes and refactors your system to operate more effectively in the cloud prior to going live within Cloud One.

Cloud One provides a plethora of services that will accelerate the accreditation process, ensure continuing compliance with security controls, and facilitate rapid future deployment of capabilities. We need to take advantage of the rapid ATO-inheritance and Real-time Compliance that Cloud One offers. Additionally, Cloud One offers a wide range of native cloud services, including DISA-approved "guardrails" that allow system and application owners to focus on maintaining their applications rather than spending valuable time managing their own hosting environment and underlying infrastructure.

Lastly, we as an Air Force need to vacate the old way of doing business and leverage commercial cloud technologies in order to more efficiently and securely write software at scale. Per guidance in Reference (c), Platform One is the designated lead for Agile Software Development in the Department of Defense and offers the venue of choice to develop, deploy, operate, and sustain software in a secure and agile manner. Their development platform is securely hosted on Cloud One. The Platform One team manages software factories for development teams, builds and leverages DoD hardened containers, and provides DevSecOps Managed Services in order for mission owners to be able to focus on building their mission applications.

To find out more about Cloud One, please visit their Welcome Site that offers thorough information on their offerings, costs and an opportunity to register your mission system or application. Our Cloud One Kickstart team stands ready and waiting to assist you as you begin your migration journey. Start by visiting <https://cloudone.cce.af.mil> or reaching out to them at cloudone.kickstart@us.af.mil to discuss a way forward. If Cloud One determines they cannot meet your organization's operational needs for cloud services, we would encourage you to reach out to the other approved cloud options within DoD, MilCloud2.0 (<https://www.milcloud2.com/>) or the Intelligence Community Cloud Services (SIPR: <http://www.sc2shome.sgov.gov/> or JWICS: <https://c2s.cia.ic.gov/>).