**DESCRIPTION OF WORK**

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| --- | --- |
| **Award/Mod Effective** | **Version Date** |
| initial award | 2023-01-01 |

| Contract Number: | TBD |
| --- | --- |
| Task Order (TO) Number: | TBD |
| Contractor Name | TBD |
| Tracking Number: | TBD |
| Follow-on to Previous Contract and TO Number: | Contract Number: 349759340  Task Order Number: ABC123 |

**1.**  TO Title. Test Package for DOW

**2.** Scope. Using as a way to see where different sections are saving information.

The information provided in this Description of Work (DoW) is to allow JWCC cloud service providers (CSPs) to propose/quote and the Government to analyze proposals/quotes in a consistent manner. All requirements specified in this DoW are presented as a minimum capability for analysis only and will neither limit the actual Cloud Service Offering(s) (CSO) ordered from the Contractor’s JWCC Catalog during TO performance nor exceed the dollar threshold established within the TO.

The Government may require surge capabilities during the base or any option period (OP), and surge requirements will be within the scope of the task order for the defined task areas of this DoW. Surge capabilities over the life of the TO will not exceed 44% of the contractor’s total proposed price for the base and all OPs, excluding any six-month extension of services pursuant to Federal Acquisition Regulation (FAR) 52.217-8.

**3.** Background/Current Environment.

A current environment to rehost exists.

System diagrams, data architecture diagrams, charts, or other information do not exist.

A migration assessment, analysis, or process does not exist.

Number of instances (isolated environment, enclave, or collection of components): 16

**3.1** Instance 1

* Number of instances with the following configurations: 4
* Location of current environment: Cloud
* Region(s):
  + EUCOM
* Data classification level: Secret
* Current usage: Evenly Distributed
* Location(s) and approximate number of current users:
  + EUCOM: 8,755 users
* Approximate number of vCPUs/size of compute: 100
  + Processor speed: 250
  + Operating system: Kali
* Licensing: MIT
* Memory (GB): 64
* Current Payment Arrangement:
  + Pay-as-you-go
* Reservation period/pre-paid period/up-front period/expiration date: N/A
* Storage type and current size (TB):
  + Archive Storage (Store and serve for long-term data retention): 2354 TB
* Performance tier:
  + Compute Optimized (Supports compute-bound applications that benefit from high performance processors)
* Approximate data/internet egress per month (TB): 985 TB
* Additional information: Cyber security geared.

**3.2** Instance 2

* Number of instances with the following configurations: 4
* Location of current environment: Cloud
* Region(s):
  + EUCOM
* Data classification level: Top Secret (TS)
* Current usage: Evenly Distributed
* Location(s) and approximate number of current users:
  + EUCOM: 8,755 users
* Approximate number of vCPUs/size of compute: 100
  + Processor speed: 250
  + Operating system: Kali
* Licensing: MIT
* Memory (GB): 64
* Current Payment Arrangement:
  + Pay-as-you-go
* Reservation period/pre-paid period/up-front period/expiration date: N/A
* Storage type and current size (TB):
  + Archive Storage (Store and serve for long-term data retention): 2354 TB
* Performance tier:
  + Compute Optimized (Supports compute-bound applications that benefit from high performance processors)
* Approximate data/internet egress per month (TB): 985 TB
* Additional information: Cyber security geared.

**3.3** Instance 3

* Number of instances with the following configurations: 5
* Location of current environment: Cloud
* Region(s):
  + CONUS Central
  + AFRICOM
* Data classification level: Unclassified
* Impact level: Impact Level IL5 (IL5)
* Current usage: Irregular Usage
  + Event based: Black Friday
  + High usage periods: Winter and Spring
* Location(s) and approximate number of current users:
  + CONUS Central: 19,238 users
  + AFRICOM: 13,939 users
* Approximate number of vCPUs/size of compute: 88
  + Processor speed: 723
  + Operating system: Unknown
* Licensing: MIT
* Memory (GB): 2357
* Current Payment Arrangement:
  + Reserved/pre-paid/up-front
* Reservation period/pre-paid period/up-front period/expiration date: 2/28/2023
* Storage type and current size (TB):
  + Object Storage (Store and serve unstructured user-generated content): 77 TB
* Performance tier:
  + Storage Optimized (Designed for high, sequential read and write workloads to very large data sets on local storage)
* Approximate data/internet egress per month (TB): 102394 TB
* Additional information: Looking to have something similar in the new system if not better.

**3.4** Instance 4

* Number of instances with the following configurations: 3
* Location of current environment: Cloud
* Region(s):
  + CONUS West
  + CONUS East
  + SOUTHCOM
* Data classification level: Unclassified
* Impact level: Impact Level IL2 (IL2)
* Current usage: Evenly Distributed
* Location(s) and approximate number of current users:
  + CONUS West: 4,305 users
  + CONUS East: 2,345 users
  + SOUTHCOM: 5,278 users
* Approximate number of vCPUs/size of compute: 24
  + Processor speed: 8
  + Operating system: Mint
* Licensing: MIT
* Memory (GB): 124
* Current Payment Arrangement:
  + Pay-as-you-go
* Reservation period/pre-paid period/up-front period/expiration date: N/A
* Storage type and current size (TB):
  + Block Storage (Fixed-sized raw storage capacity): 500 TB
* Performance tier:
  + General Purpose (Provides a balance of compute, memory & network)
* Approximate data/internet egress per month (TB): 3945 TB
* Additional information: Some additional info here.

**4.** Performance Requirements.

**4.1** Task 1 - Objective-based Requirement.

**4.1.1** Reserved

**4.1.2** Require current functions to be optimized (improved/modernized) using JWCC offerings.

The system was built in a rush, we are looking to optimize it to perform better and use less resources

Additional growth is anticipated as 14%.

A phased approach is required.

* Schedule: B - 10, OP1- 23, OP2 -30, OP3 -35

**4.1.3** Require an architectural design solution to address a known problem/use-case.

Need to optimize and expand the previous system and in higher levels

Applicable applications are web server, app server, db server

Classification level(s):

* Unclassified IL4 (Accommodates DoD Controlled Unclassified Information (CUI))
* Unclassified IL5 (Accommodates DoD CUI & National Security Systems)
* Secret - IL6 (Accommodates DoD Classified Information up to SECRET)

Other factors to consider regarding deployment are Pending laws that will change how the system will need to be build.

**4.2** Task 2 - XaaS (Anything as a Service).

Approximate data/internet egress per month (PB) (across entire duration of this TO): 1023.034904 PB

**4.2.1** Unclassified - IL2

Location(s) and approximate number of current users:

* CONUS West: 50,000 users
* CONUS East: 75,000 users
* SOUTHCOM: 100,000 users

Anticipated future needs:

* Users: Estimated growth per period:
  + Base: 5%
  + Option 1: 15%
  + Option 2: 22%
  + Option 3: 25%
* Data: Estimated lifecycle growth: 27%

**4.2.1.1** Subtask 1 Compute (Unclassified - IL2):

Number of instances: 3

* Dev/Test: 3
* Pre-Production: 0
* Production/Staging: 0
* COOP/Disaster Recovery: 0

**4.2.1.1.1** Instance 1

* Number of instances with similar configurations: 3
* Operating environment: Virtual
* OS and licensing: New
* Approximate number of vCPUs/size of compute: 848
  + Processor speed: 235
  + Operating system: Imagine
* Memory (GB): 233 GB
* Performance tier:
  + General Purpose (Provides a balance of compute, memory & network)
* Storage type and size (PB):
  + Block Storage (Fixed-sized raw storage capacity): 545 PB
* Statement of objectives for anticipated need/usage: Need this as base for platform

**4.2.1.2** Subtask 2 Developer Tools and Services (Unclassified - IL2):

**4.2.1.2.1** DevSecOps

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: Automation and security best practice

**4.2.1.3** Subtask 3 Applications (Unclassified - IL2):

**4.2.1.3.1** Database

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: DB server - public

**4.2.1.3.2** Application

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: web server

**4.2.1.4** Reserved

**4.2.1.5** Reserved

**4.2.1.6** Reserved

**4.2.1.7** Reserved

**4.2.1.8** Reserved

**4.2.1.9** Subtask 9 Edge Computing and Tactical Edge (TE) (Unclassified - IL2):

**4.2.1.9.1** Mobility (Modular)

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: Need TE for at edge

**4.2.1.10** Reserved

**4.2.1.11** Reserved

**4.2.2** Reserved

**4.2.3** Unclassified - IL5

Location(s) and approximate number of current users:

* SOUTHCOM: 76,000 users
* CONUS West: 123,000 users

Anticipated future needs:

* Users: Estimated lifecycle growth: 5%
* Data: Static

**4.2.3.1** Subtask 1 Compute (Unclassified - IL5):

Number of instances: 4

* Dev/Test: 0
* Pre-Production: 4
* Production/Staging: 0
* COOP/Disaster Recovery: 0

**4.2.3.1.1** Instance 1

* Number of instances with similar configurations: 4
* Operating environment: Serverless
* OS and licensing: Transfer Existing
* Approximate number of vCPUs/size of compute: 334
  + Processor speed: 38
  + Operating system: Red Hat
* Memory (GB): 495 GB
* Performance tier:
  + Compute Optimized (Supports compute-bound applications that benefit from high performance processors)
* Storage type and size (GB):
  + Block Storage (Fixed-sized raw storage capacity): 500 GB
* Statement of objectives for anticipated need/usage: preparing and testing

**4.2.3.2** Reserved

**4.2.3.3** Subtask 3 Applications (Unclassified - IL5):

**4.2.3.3.1** Web app

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: Web app - limited

**4.2.3.3.2** Database

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: DB server - limited

**4.2.3.3.3** Application

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: app server

**4.2.3.4** Reserved

**4.2.3.5** Reserved

**4.2.3.6** Reserved

**4.2.3.7** Reserved

**4.2.3.8** Reserved

**4.2.3.9** Reserved

**4.2.3.10** Reserved

**4.2.3.11** Reserved

**4.2.4** Secret - IL6

Location(s) and approximate number of current users:

* EUCOM: 200,000 users

**4.2.4.1** Subtask 1 Compute (Secret - IL6):

Number of instances: 10

* Dev/Test: 0
* Pre-Production: 0
* Production/Staging: 0
* COOP/Disaster Recovery: 10

**4.2.4.1.1** Instance 1

* Number of instances with similar configurations: 10
* Operating environment: Virtual
* OS and licensing: New
* Approximate number of vCPUs/size of compute: 555
  + Processor speed: 999
  + Operating system: Unicorn
* Memory (GB): 677 GB
* Performance tier:
  + Compute Optimized (Supports compute-bound applications that benefit from high performance processors)
* Storage type and size (PB):
  + File Storage (Store and serve shared file systems): 1500 PB
* Statement of objectives for anticipated need/usage: Going live

**4.2.4.2** Subtask 2 Developer Tools and Services (Secret - IL6):

**4.2.4.2.1**  DevSecOps

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: Keeping

**4.2.4.3** Subtask 3 Applications (Secret - IL6):

**4.2.4.3.1** Web app

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: Web app - a need to know basis

**4.2.4.3.2** Database

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: DB server - need to know basis

**4.2.4.3.3** Application

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: db server

**4.2.4.4** Reserved

**4.2.4.5** Reserved

**4.2.4.6** Reserved

**4.2.4.7** Subtask 7 Database (Secret - IL6):

Number of instances: 3

**4.2.4.7.1** Instance 1

* Number of instances with similar configurations: 3
* Approximate number of vCPUs/size of compute: 987
  + Processor speed: 88
  + Operating system: Linux
* OS and licensing: N/A
* DB and licensing: New
* Memory (GB): 99 GB
* Network performance: 1087
* Storage type and size (TB):
  + Object Storage (Store and serve unstructured user-generated content): 99 TB
* Database Type: Transactional
* Statement of objectives for anticipated need/usage, to include the purpose and usage of the expected tools/capabilities: external DB

**4.2.4.8** Reserved

**4.2.4.9** Subtask 9 Edge Computing and Tactical Edge (TE) (Secret - IL6):

**4.2.4.9.1**  Mobility (Modular)

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: Need TE for at edge

**4.2.4.10** Reserved

**4.2.4.11** Reserved

**4.2.5** Top Secret

Location(s) and approximate number of current users:

* EUCOM: 200,000 users

**4.2.5.1** Reserved

**4.2.5.2** Reserved

**4.2.5.3** Reserved

**4.2.5.4** Reserved

**4.2.5.5** Reserved

**4.2.5.6** Reserved

**4.2.5.7** Reserved

**4.2.5.8** Reserved

**4.2.5.9** Subtask 9 Edge Computing and Tactical Edge (TE) (Top Secret):

**4.2.5.9.1** Mobility (Modular)

Statement of objectives for anticipated need/usage, to include purpose and usage of the expected tools/capabilities: Need TE for at edge

**4.2.5.10** Reserved

**4.2.5.11** Reserved

**4.2.6** Cross-Domain Solutions (CDS):

CDS is required:

* Unclassified to Secret (GB/mo): 4039 GB
* Secret to Unclassified (GB/mo): 235 GB
* Unclassified to Top Secret (GB/mo): 800 GB
* Secret to Top Secret (GB/mo): 100 GB
* Top Secret to Unclassified (GB/mo): 500 GB
* Top Secret to Secret (GB/mo): 750 GB

Projected file stream/type: PDF documents

Statement of objectives for anticipated need: Need to move documents between classification based on a new law.

**4.3** Task 3 - Cloud Support Packages.

**4.3.1** Reserved

**4.3.2** Reserved

**4.3.3** Unclassified - IL5

A portability plan IAW for the basic JWCC Contract is required.

**4.3.3.1** Reserved

**4.3.3.2** Reserved

**4.3.3.3** Reserved

**4.3.3.4** Subtask 4 Documentation Support (Unclassified - IL5):

**4.3.3.4.1** Service 1

* Services do not require CSP personnel to access on-site locations.
* Statement of objectives for anticipated need/usage, to include the desired outcome (purpose and usage) of the expected services: doc assistance for transferring things

**4.3.3.5** Reserved

**4.3.4** Secret - IL6

**4.3.4.1** Subtask 1 Advisory and assistance (Secret - IL6):

**4.3.4.1.1** Service 1

* Services require CSP personnel to access on-site locations.
* Statement of objectives for anticipated need/usage, to include the desired outcome (purpose and usage) of the expected services: On base help

**4.3.4.2** Reserved

**4.3.4.3** Subtask 3 Training (Secret - IL6):

**4.3.4.3.1** Service 1

* Training required: Training #1
* Required Format: Onsite Instructor Conus
  + Location: DC
* Training shall be held at: Government Facility
* Number of personnel requiring training: 400 people
* Statement of objectives for anticipated need/usage, to include the desired outcome (purpose and usage) of the expected services: train admins

**4.3.4.4** Reserved

**4.3.4.5** Reserved

**4.3.5** Top Secret

**4.3.5.1** Reserved

**4.3.5.2** Reserved

**4.3.5.3** Subtask 3 Training (Top Secret):

**4.3.5.3.1** Service 1

* Training required: Training #2 (TS)
* Required Format: Onsite Instructor Conus
  + Location: DC
* Training shall be held at: Government Facility
* Number of personnel requiring training: 400 people
* Statement of objectives for anticipated need/usage, to include the desired outcome (purpose and usage) of the expected services: train admins

**4.3.5.4** Reserved

**4.3.5.5** Reserved

**5.** Contract Data Requirements Lists (CDRL). The below CDRLs are included in the Joint Warfighting Cloud Capability (JWCC) Contract.

|  |  |  |  |
| --- | --- | --- | --- |
| **DoW Task Number** | **JWCC Contract CLIN Number** | **CDRL** | **CDRL Name** |
| 4.3.4.3, 4.3.5.3 | x004, x006 | \*A004 | System Administrator Training Materials |
| 4.3.4.3, 4.3.5.3 | x004, x006 | \*A005 | Role-Based User Training Material |
| ANY | x001, x003, x005 | A012 | TO Monthly Progress Report |
| 4.3.3 | x001 | \*\*A006 | Portability Plan |
| 4.2.1.9, 4.2.4.9, 4.2.5.9 | x001, x003, x005 | \*\*\*A017 | TE Device Specifications |

\* CDRLs A004 AND A005 are required for each individual training session

\*\* CDRL A006 requires both XaaS and advisory and assistance services

\*\*\* CDRL A017 is required only for the initial TE delivery and redelivery if a TE specification changes

**6.** Performance Standards. The performance standards are established in the JWCC IDIQ Contract.

**7.** Period of Performance.

1 year base period, plus one 34-week option period, one 8-month option period and one 1-year option period

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Task/Subtask** | **Base** | **OP1** | **OP2** | **OP3** |
|  |  | 4.2.1.1.1,4.2.4.1.1,4.2.4.7.1,4.2.1.3.1,4.2.1.3.2,4.2.1.2.1,4.2.1.9.1,4.2.3.3.1,4.2.3.3.2,4.2.3.3.3,4.2.4.3.1,4.2.4.3.2,4.2.4.2.1,4.2.4.9.1,4.2.5.9.1,4.3.3.4.1,4.3.3,4.3.4.3.1,4.3.4.1.1,4.3.5.3.1 | X | X | X | X |
|  |  | 4.2.3.1.1 |  | X | X |  |
|  |  | 4.2.4.3.3 |  | X | X | X |
|  |  | 4.2.6 | X | X | X |  |

**8.** Security Requirements. The security requirements and compliance mandates are established in the JWCC IDIQ Contract DD254.

|  |  |  |  |
| --- | --- | --- | --- |
| **Task / Subtask** | **Clearance Level** | **Level of Classified Access** | **Justification for Access to Classified** |
| Provide SECRET Cloud Services and Support in performance of task 4.1 | SECRET | Restricted Data  National Intelligence Information: Non-SCI  North Atlantic Treaty Organization (NATO) Information  Foreign Government Information (FGI) | Access is required in the offering and support of SECRET cloud services and support to the JWCC Contract. |
| Provide TS Cloud Services and Support in performance of task 4.1 | TS | Restricted Data  Foreign Government Information (FGI)  Special Access Program (SAP) Information | Access is required in the offering and support of TS cloud services and support to the JWCC Contract. Access to SAPs is required. |
| Provide SECRET Cloud Services in performance of task 4.2.4 | SECRET | Restricted Data  National Intelligence Information: Non-SCI  North Atlantic Treaty Organization (NATO) Information  Foreign Government Information (FGI) | Access is required in the offering and support of SECRET cloud services and support to the JWCC Contract. |
| Provide TS Cloud Services and Support in performance of task 4.2.5 | TS | Restricted Data  Foreign Government Information (FGI)  Special Access Program (SAP) Information | Access is required in the offering and support of TS cloud services to the JWCC Contract. Access to SAPs is required. |
| Provide SECRET Cloud Support in performance of task 4.3.4 | SECRET | Restricted Data  National Intelligence Information: Non-SCI  North Atlantic Treaty Organization (NATO) Information  Foreign Government Information (FGI) | Access is required in the offering and support of SECRET cloud support to the JWCC Contract. |
| Provide TS Cloud Support in performance of task 4.3.5 | TS | Restricted Data  Foreign Government Information (FGI)  Special Access Program (SAP) Information | Access is required in the offering and support of TS cloud support to the JWCC Contract. Access to SAPs is required. |
| Tactical Edge Offerings and Support in performance of tasks 4.2.4.9 | SECRET | EDGE Computing Classified Info Type - Secret | Access is required in the offering and support of CLASSIFIED cloud services to the JWCC Contract. |
| Tactical Edge Offerings and Support in performance of tasks 4.2.5.9 | TS/SCI | EDGE Computing Classified Info Type - Top Secret | Access is required in the offering and support of CLASSIFIED cloud services to the JWCC Contract. |
| Advisory and Assistance Services in performance of task 4.3.4.1 | SECRET | Restricted Data  Formerly Restricted Data  Controlled Unclassified Information (CUI) | Access is required to advise and assist with cloud architecture design, as well as resource usage, provisioning, and configuration of XaaS. |
| Cloud Training Services in performance of task 4.3.4.3 | SECRET | Critical Nuclear Weapon Design Information (CNWDI) | Access is required in support of cloud training requirements across the contract. |
| Cloud Training Services in performance of task 4.3.5.3 | TS | Top Secret info type - cloud support | Access is required in support of cloud training requirements across the contract. |

**9.** Government Furnished Property (GFP)/Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI). All compliance requirements for managing GFP, GFE, and GFI are established in the JWCC IDIQ Contract.

**10.** Other Pertinent Information or Special Considerations.

1. Identification of Potential Conflicts of Interest (COI). None.
2. Packaging, Packing, and Shipping Instructions. None.

* When transferring physical media between locations, the contractor shall provide a certified courier or other method of maintaining a secure chain of custody over the physical media being moved to and from a defined, secured off-site storage location. The contractor shall provide flexibility in courier pick-up and delivery time.
* Door to door by team member.

1. Supply Chain Risk Management (SCRM). All applicable SCRM requirements are listed in the JWCC IDIQ Contract.
2. Training. Contractor employees may be required to take periodic mandatory training courses provided by a Federal Government organization, such as records management training and other training required by statute, regulation, DoD, or local (e.g. DISA) policy. No other training of contractor personnel shall be provided by the Government unless authorized by the Contracting Officer.
3. Personally Identifiable Information (PII). This requirement provides for the design, development, or operation of a system of records on individuals (in whole or in part).

* System of records: NCEES Records

1. Travel. Number of trips: 3

|  |  |  |  |
| --- | --- | --- | --- |
| Number of trips | Location | Duration | Number of Travelers |
| 8 | DC | 5 days | 4 travelers |
| 5 | Berlin | 14 days | 20 travelers |
| 10 | California | 14 days | 5 travelers |

**11.** Section 508 Accessibility Standards for Cloud Computing.

Melissa is best!