

Cloud Consideration Criteria

Office of the Chief Information Officer

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Description

As the State of Nebraska moves towards using Cloud resources, other than the private cloud solution offered by the Office of the Chief Information Officer, the following are criteria that must be taken into consideration prior to the movement of data into a non-State Cloud solution. Please refer to the NITC Technical Standards and Guidelines 8-607. Cloud Computing.

Technical questions:

How much storage is needed (GB's/TB's)?

How much growth are you anticipating monthly (percentage change)?

Are there any performance requirements?

Does the solution you are using today meet those requirements (please provide metrics)

What metrics are available on the current system to measure performance and capacity?

What is the impact on user experience under varying degrees of network latency/slowness?

Does the data need replicated to another physical location?

Does the data need backups with specific retention schedules?

How is the data going to be used (application, server, users, archival?)

How is the data accessed?

Network file share (NAS)

LUN attached to physical server (block storage)

Cloud based (object storage)

What are the Recovery Point Objective and Recovery Time Objectives for the service?

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How is Continuity of Operations and Disaster Recovery being addressed?

Does the data moving to the cloud fall under any federal requirements such as CJIS, PCI, FTI, etc?

Does the proposed vendor have a direct connect to ensure the OCIO's commodity Internet is not impacted?

How will the application/serve be accessed (public internet, internal State network only, etc.)?

Which Deployment Model of NITC Standard 8-607, Cloud Computing are you intending to use?

Business questions:

What services are you planning to move to the Cloud?

What are your reasons for wanting to move to the Cloud?

Is there a time-frame or event driving the change, example, end-of-Life hardware/software?

Who uses the application or service now?

Number of users / Where and how do they access the service today?

Is the application/service only used within the State's internal network currently?

How will success of a move to the Cloud be measured?

Are there any application/services being actively developed or updated that may impact a Cloud migration?

Is there a contract in place to procure this?

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Architecture and technology questions:

Is there any existing architecture documentation?

Is the current platform physical or virtual?

Are any application/service components already using Cloud services?

Do the services use web services, and if so, for what?

What external dependencies do the services have?

Are services accessed via a web browser? If not, what client software is required?

What technologies and versions are used to deliver the service (web servers, databases, directory services, etc)?

How are changes and fixes developed and deployed?

What environments are required to support the service (Staging, Development, training, etc)?

Was this service designed with the Cloud in mind?

For further information, please contact:

Office of the CIO Service Desk
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402-471-4636 or 800-982-2468