1. Determine the Functionalities of Nagios Core for the Organization:
   1. Create a list of the functionalities available in Nagios Core.
   2. Specify and define the needs of the Organization for monitoring, including critical systems, servers, VMs, services (HTTP, HTTPS, SQL, APIs), and Network appliances we want to monitor.

Gather information about each of the Organization systems and their importance and priority.

1.3) Determine which systems to monitor.

* 1. Define which persons to be notified by Nagios on alerts including the IT group and Elizabeth Washington

1. Presentation of the Information in Layers of Dependency:

2.1) Establish an Inventory including:

2.1.1) A list of Physical Servers onsite and on remote locations

- Create a clear description of the physical location of each physical server and

establish procedures to access them onsite and remotely. (I need

assistance to access any remote location/datacenter, and to identify

each physical server)

- Determine who has access to each server, and recommend the removal of

unneeded access. (I need assistance to get the list of users access to

each server and to identify who no longer needs those access)

- Determine the roles of each physical server, including

VMWare Host

HTTP/HTTPS host

DNS server

(I prefer user access to each VM or otherwise I will need

assistance identifying these roles)

- Determine their Logical Information including IP, OS, monitoring needs.

- Define Performance metrics needed to maintain their health.

2.1.2) A list of Virtual Servers

- Create a clear location, under which physical server runs and under which

storage it stays. (I prefer user access to these VM or

otherwise I need assistance obtaining this information)

- Determine who has access to each virtual server, and remove unneeded

access. . (I need assistance to get the list of users access to

each server and to identify who no longer needs those access)

- Determine the roles of each VM server including:

HTTP/HTTPS host

API

(I prefer user access to these VM or otherwise I need assistance

obtaining this information)

- Determine their Logical Information including IP, OS, and monitoring needs.

- Define Performance metrics needed to maintain their health.

(I will need admin access to these VM to install agents or

otherwise I need assistance installing the agents)

2.1.3) A list of Services provided by the servers.

- Create a List of Hosted Websites and services and their respective location on

VMs or physical servers.

(This can be done on two fronts, the first front is to analyze each host

for serving ports and services. The second front is to get this

information from developers. I recommend using both fronts)

- Define the services each website provides or use including HTTP, HTTPS, SQL,

APIs.

- Determine who has admin access to each service, and remove unneeded

access. (I will need user access to the service, otherwise I will assistance

to gather this information)

- Determine interdependencies between website.

(I will need a end-user account for each website, in order to run crawler

and extractors)

- Define how each website functionality depends on any other website. For

example, determine if mywebtext.com reads files from the

Dreamfactory.

(while most of these definitions can be made straight forward, I may

need assistance from the developer for complex situations)

- Create groups of dependencies that will help tracking each service to its

dependencies on server, VMs, other services, websites/domains. The

idea is to show how a service like a website depends on the availability

of a server, VM, and other services; and to show where in the

dependencies to look for problems.

2.2) Define how to organize the depen3dencies in Nagios and implement this organization.

2.3) Find a visual representation tools that can graphically show dependencies, status of each

service, server and VM. This tools should allow the use of chained groups.

(For this I may need to downgrade Natgios to an older version or do a fresh install)

1. Determine the dependencies that other websites have with the Dreamfactory site, including ap1.c4edu.com and ap2.c4edu.org. Determine which files and directories within the Dreamfactory are no longer used and recommend their storage and movement.

(I will need access to analytics showing source links or websites for the Dreamfactory,

better if I can analyze these analytics of long period of times)

1. Define a procedure to Maintenance Nagios current, including change management of servers, VMs, services, or their access.
2. Disaster Prevention and Recovery:

Based on the determined dependencies, location, and logical information, define disaster prevention procedures for critical systems, including procedures on how to access the servers, which service to check, etc.

5.1) Determine more likely issues that the Organization critical systems may experience based

on historical data. (I will need assistance gathering information about past events)

5.2) Determine more likely issues that the Organization critical systems may experience based

on the system characteristics.

5.2) Define clear recovery procedures for these issues. These procedures should include access,

contact info for 3rd parties.