DATA
MONITORING
IN THE CLOUD

FORCE 3
A SIRIUS COMPANY | **NetApp** STAR PARTNER

IT'S EASIER THAN YOU THINK.

Federal technology teams are experts at monitoring their on-prem data and systems. The importance of monitoring doesn't change when migrating to a cloud environment. In fact, not continuing your monitoring protocols can have significant impact on your budget and drive-up your cloud usage costs. **Here are 5 WAYS** to take your knowledge of on-prem monitoring and apply them to your cloud environment.

1

### MONITOR YOUR INFRASTRUCTURE.

WHILE WE THINK OF THE CLOUD AS INFINITE, reality it needs to be viewed and treated like a machine in your data center. When monitoring your on-prem systems, you know to watch CPU, memory, and network utilization and adjust accordingly. When you need more storage or memory during peak times, you buy or provision more.

The same thing should happen in the cloud. By monitoring your utilization, you can determine how much cloud storage and usage you need at any given time. During peak times, use the cloud to support increased demand. If your utilization reports show idle usage, give the resources back to save costs.

2

MONITOR YOUR APPLICATIONS.

THE CLOUD IS DESIGNED TO ADD RESOURCES INCLUDING STORAGE WHEN YOU NEED IT. If your applications are experiencing problems, those issues are being logged. If you aren't checking the logs, they will continue to grow. If you don't continue to monitor and clear out your application logs, your application may go down, just as it would if it were on-prem. Standard application maintenance is critical to keep your applications running smoothly regardless of where they are stored.

3
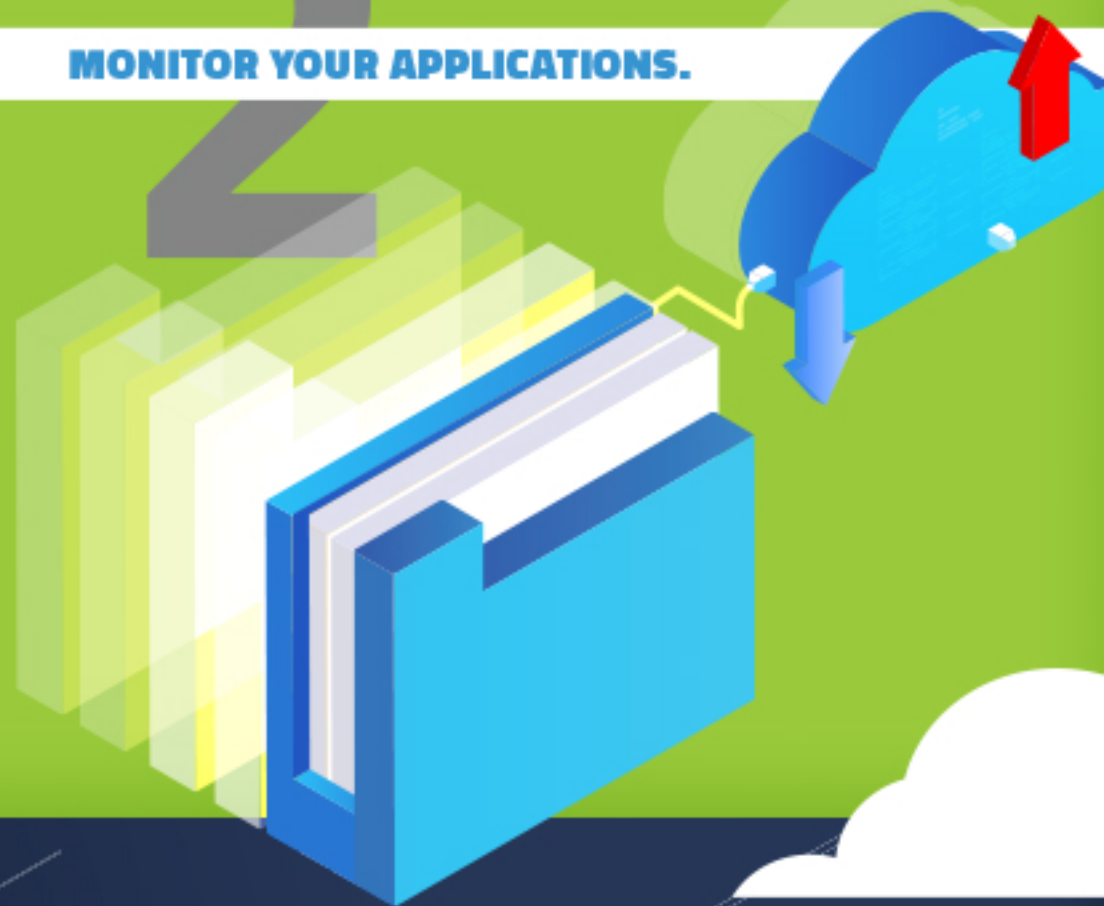
APPLICATION SECURITY IS STILL CRITICAL.

BEING IN THE CLOUD DOESN'T MEAN YOU DON'T HAVE TO WORRY ABOUT APPLICATION SECURITY. While it's true that cloud providers have strong security protocols in place, you still need to remain vigilant. Denial of Service attacks in the cloud can clog your network. And remember, your cloud resources share physical resources with other organizations. If you or they have an attack, it affects everyone. Monitor your application security logs to spot problems and mitigate issues before they affect your network and operations.

4

CONTINUOUSLY ANALYZE OPERATIONS TO SUPPORT THE RIGHT AMOUNT OF CLOUD USAGE.

FEDERAL CIOS TYPICALLY KNOW WHEN THEY NEED TO ADD COMPUTE SPACE AND STORAGE – the IRS needs extra support in the spring, the Department of Labor needs it when Jobs reports are issued. Adding space should continue in the cloud environment during these peak times while remembering to de-provision the extra resources when they are no longer needed. It's also important to monitor what is being accessed in your cloud environment. Storage is an inexpensive component of your cloud spend. Accessing the data is not. By continuously monitoring application and data access, you can decide where to find efficiencies and costs savings by utilizing a hybrid or public cloud environment. This can be achieved best is your cloud applications are containerized.

5

AUTOMATE PROVISIONING AND ORCHESTRATION.

THE BEAUTY OF THE CLOUD IS THAT YOU CAN PROVISION A NEW VIRTUAL MACHINE VERY QUICKLY. You no longer have to wait for procurement, delivery, and installation. By reviewing your historical on-prem usage and monitoring ongoing usage in the cloud, you can see times when you need to provision more space. You can also see when you don't need that extra space. Automating this process to support peak usage will ensure your entire network tied to the cloud will continue to operate smoothly at critical times – and also ensure that extra space is given back when you no longer need it. Through automation, this can be done in a matter of seconds instead of weeks with on-prem systems.

SUPPORT WHEN YOU NEED IT

FORCE 3 has been supporting the technology needs of the federal government for over 25 years. Let us help your agency migrate to the cloud with our Bridge to the Cloud approach, and monitor your systems when you are there.

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