System Monitoring

Proficiency Code: B

Basic concepts of system monitoring:

End-to-end performance monitoring establishes a deliberate, proactive monitoring and capacity planning of all the hardware and software components of the Air Force Information Network (AFIN) that enables all Air Force Information Technology (AF IT) Services, to include mission/functional unique applications. It supports mission assurance by including the end user experience and the warfighter's ability to access critical information.

End-to-end performance monitoring includes the activities, methods, processes, procedures, capabilities, tools, and resources that allow cyber professionals to rapidly identify, isolate, and resolve service incidents before they cause significant degradation or poor performance resulting in mission impact. Monitoring, measuring, performance analysis, and optimizing networks and networked systems are included in the scope.

End-to-end performance monitoring applies to the NonSecure Internet Protocol Router Network (NIPRNET) and the SECRET Internet Protocol Router Network (SIPRNET), and all other terrestrial, space and airborne networks – anywhere a network can be hosted – for all entities (Active Duty, Guard, & Reserve).

Capacity planning includes long trend analysis of network devices including servers. This analysis identifies future constraints with the results incorporated into either future technical base lines. Service and application performance is affected by both the performance of the network and performance of the servers and applications providing the service. As the operator of the network, 24th AF (Numbered Air Force) has the ultimate responsibility for determining the network elements to be monitored, the thresholds that must be established, and the appropriate responses to results that fall outside the established thresholds. 24 AF must coordinate with the network owner (e.g., DISA, Army, etc.) if monitoring spans networks outside of AF control.

Users of the Department of Defense Information Network (DODIN) and/or AFIN networks must consent to monitoring before they can be authorized on the networks. If you have ever logged onto an Air Force or DOD computer network, you should be familiar with the ***DoD Consent to Monitoring*** banner that pops up on the screen. The policy established departmental guidance on the use of DODIN systems and standardized the wording for to be included in user agreements. As a user, you must agree to consent to monitoring or you will be denied access to DODIN or AFIN network(s).