Preporuke za menadžment i monitoring mreže

Dokument sadrži preporuke za pripremu, sa aspekta pove?anja sigurnosti, mrežnog okruženja u kome se uspostavlja bilo koji odabrani alat za nadzor i upravljanje mrežom (NMS alat).

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Rezime

Cilj dokumenta je da pruži uvid u osnovne NMS aktivnosti, zajedno s preporukama za administratore kampus i/ili lokalnih mreža koji planiraju da primene NMS alat unutar svojih mreža.

Dokument po?inje razmatranjem topologije mreže. Promene u topologiji su predložene u skladu sa idejom da bi ve?ina NMS aktivnosti trebalo da se odvijaju kroz menadžment segment mreže. Dve alternative su razmatrane. Menadžment mreža i produkciona mreža mogu biti fizi?ki odvojene mreže (out-band management segment) ili mogu da dele istu fizi?u infrastrukturu (VLAN segment mreže).

Dokument identifikuje najmanje tri komponente koje bi trebalo da budu pokrivene Network Managament System-om. To su upravljanje konfiguracijama i upravljanje logovima, uz ve? prepoznatu Network Monitoring komponentu koja se impementira upotrebnom nekog od NMS softverskih paketa.

Dokument ukratko opisuje na?eš?e korištene portokole za upravljanje i njihovu upotrebu u razli?itim okruženjima i na razli?itim tipovima ure?aja u mreži (tj. mrežni ure?aji, serveri, UPS ure?aji, A/C), uz uslov da ne ugrožavaju sigurost mreže.

Summary

The purpose of this document is to provide an insight into basic NMS (Network Management System) activities, along with recommendations for administrators of campus and/or local networks intending to apply the NMS tools within their networks.

The document begins with a discussion of network topology. Changes in topology are recommended based on the idea that a majority of NMS activities should be conducted through the management segment of the network. The discussion focuses on two alternatives: the management network and the production network may either be separated physically (out-band management segment) or they may share the same physical infrastructure (the VLAN segment of the network).

The document further identifies the three components that should, as a minimum, be covered by a Network Management System. They are the configuration management and log management, along with the already recognised Network Monitoring component implemented using one of the NMS software packages.

Finally, the document briefly describes the most frequently used management protocols and their application in different environments and on different types of devices within a network (such as network devices, servers, UPS devices and A/C), provided they do not jeopardise the security of the network.

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