Duke University's Protected Network for Sensitive data

Duke's Office of Information Technology (OIT) and the University's IT Security Office (ITSO) established the Protected Network as a resource for storage and analysis of Sensitive research data. The network is separated virtually from the general Duke network and has more extensive security protections. It comprises dedicated storage and virtual machines (VMs), and requires specific authorization from the Campus ITSO for access.

Protected Network Components

The Protected Network has a dedicated VM and storage infrastructure designed to accommodate Sensitive data. A firewall and network rules separate the Protected Network from the Duke Network and Internet, preventing unauthorized inbound and outbound connections. Systems in the Protected Network comply with the University ITSO’s Server Security Standards including: regular patching; removal of unneeded services; logging to a central logging infrastructure; active host-based firewall; running an antivirus program; and regular backups. Systems in the Protected Network also require multi-factor authentication.

The infrastructure is located in a Duke University secured datacenter with physical access limited to authorized Duke IT staff. All backups of the research project data are encrypted and located in the same secured data center.

Researchers accessing resources in the Protected Network are required by policy to enact the following protections on their computers accessing the Protected Network: regular patching; running an antivirus program; laptop encryption; and active host-based firewall.

Protected Network Access

Access to the Protected Network requires an encrypted connection through Secure Shell (SSH), Remote Desktop Protocol (RDP) or Virtual Private Network (VPN). Access requires a valid Duke NetID (user account) combined with multi-factor authentication (e.g., using Duo). The group management tool Grouper is used to control access to the Protected Network and systems within the network. Principal Investigators, or their delegates, are responsible for approving user access to their Protected Network project’s groups.

Responsibilities

Users of the Duke Protected Network accept the policies and terms of use established for that network. For each research activity, a person responsible for maintaining contractual and/or legal obligations for data protection is identified (the “data steward”). An “administrator” is also designated by the data steward to manage Grouper groups, and therefore, provision access to their project, directly. The “data steward” and the “administrator” may be the same person.