### VMI Network Access Control

VMI IT is implementing Network Access Control (NAC) technology to improve the security of the Institute's network and protection of data.

NAC is a tool that provides the ability to significantly reduce malware by:

- Preventing vulnerable computers, whose software is not up to date, from accessing the network, potentially infecting other computers on the network with malware.
- Readily blocking network access from an infected computer to prevent compromise of other computers or data.
- Enforcing the use of antivirus software and up-to-date Operating System, or application software patches.

### What NAC means to cadets:

Cadets will experience the following using their computers:

### Registration:

Upon opening a web browser, users will be directed to a registration page where they will be prompted to enter their name or VMI network credentials. The system will "register" the computer to the particular user. Information registered includes the MAC address, IP address, the computer or device model, and the network port to which it is currently connected.

### **Posture Testing:**

Posture testing consists of checking for operating system updates and the presence of anti-virus software. Testing can be modified to check for specific antivirus versions or patch levels of operating systems.

### Remediation:

If the computer does not pass the posture test, the user will be prompted to correct any deficiencies found (update software patches, install and update antivirus software) before allowed access to the production network. The notification page directs the user to web links where the installation or updates can be installed.

# What Will The User See?

# **Registration: Acceptable Use Policy**

Individuals are given the opportunity to review the VMI Acceptable Use Policy and must select "agree" to continue

7



# Virginia Military Institute Network Access Portal Acceptable Use Policy By clicking "Agree" you are stating you have read and agree with the Acceptable Use Policy Acceptable Use Policy Disagree | Agree |

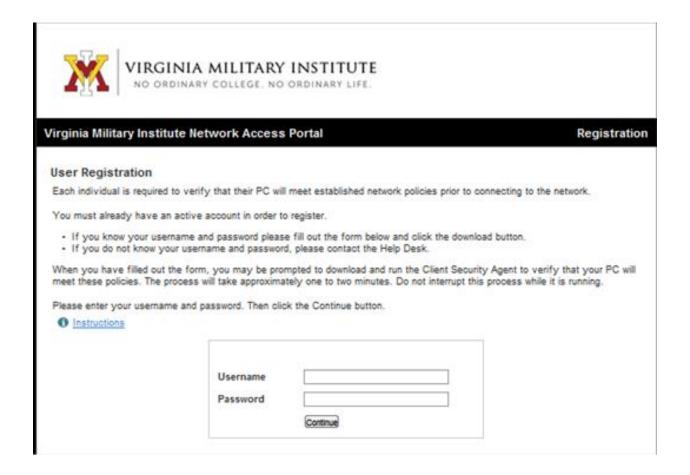
# **Registration: Welcome Page**

The Welcome Page presents users with the opportunity to select "Individuals with a VMI account" or a Guest (no VMI network account)



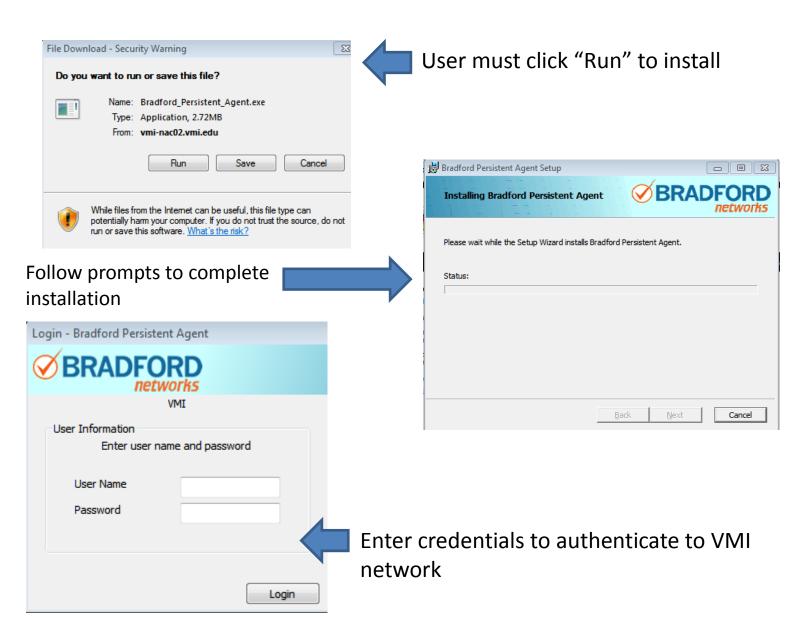
# **Registration Page: User Registration**

## Individual enters VMI network credentials



# **Agent Installation Prompt**

An "agent" or small software package must be installed to register the computer in the system.



The one time registration is complete and the user may proceed to their desired task.