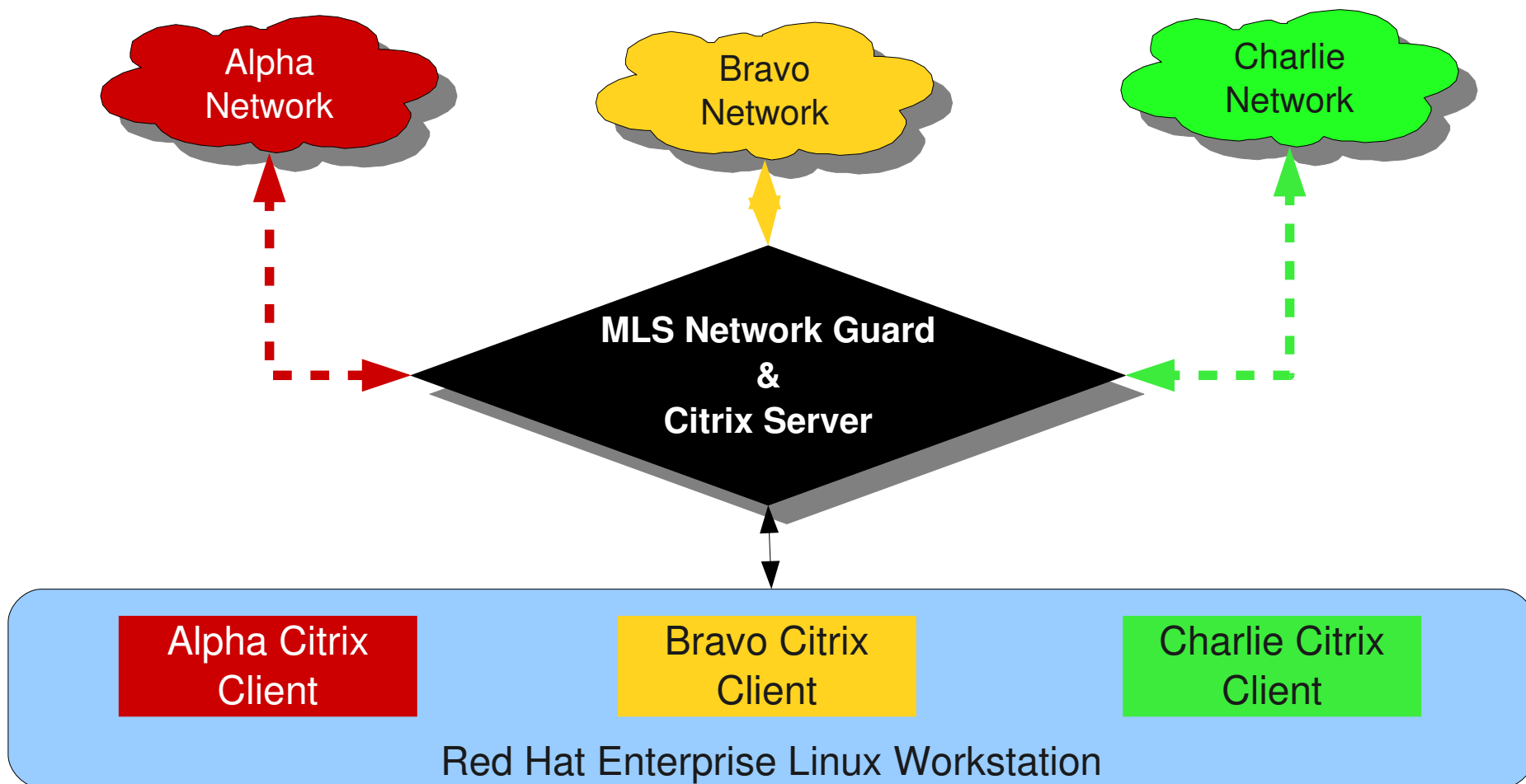# DoDIIS NexGen Desktop
Concept Architecture
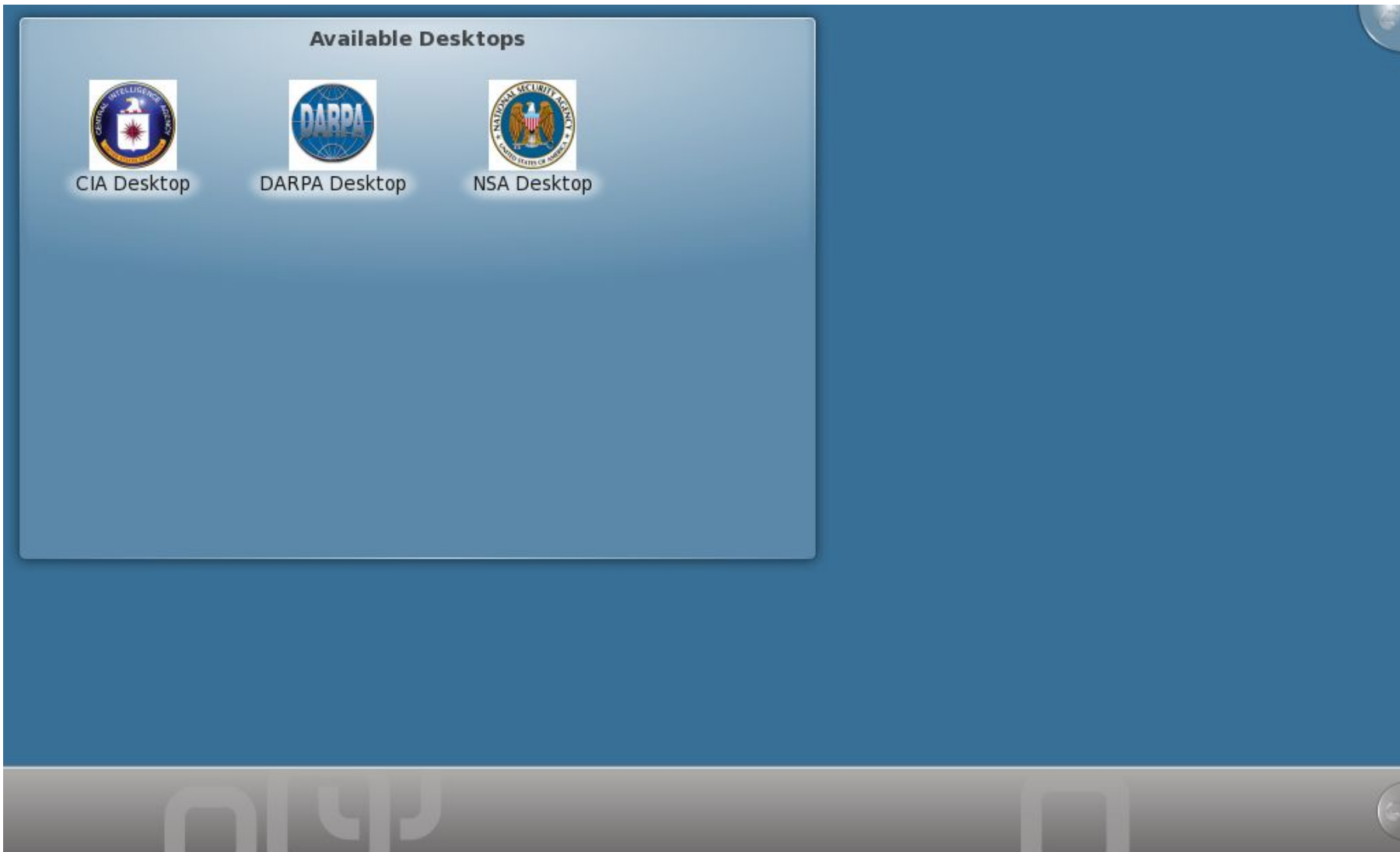
Shawn Wells <sdw@redhat.com>

Intelligence Community Programs

443-534-0130

Conceptual Overview

GOAL: A light weight Red Hat Enterprise Linux based device which has the ability to have multiple concurrent Citrix sessions, each one tied to a specific network (CIA Desktop, DoDIIS Desktop, etc).
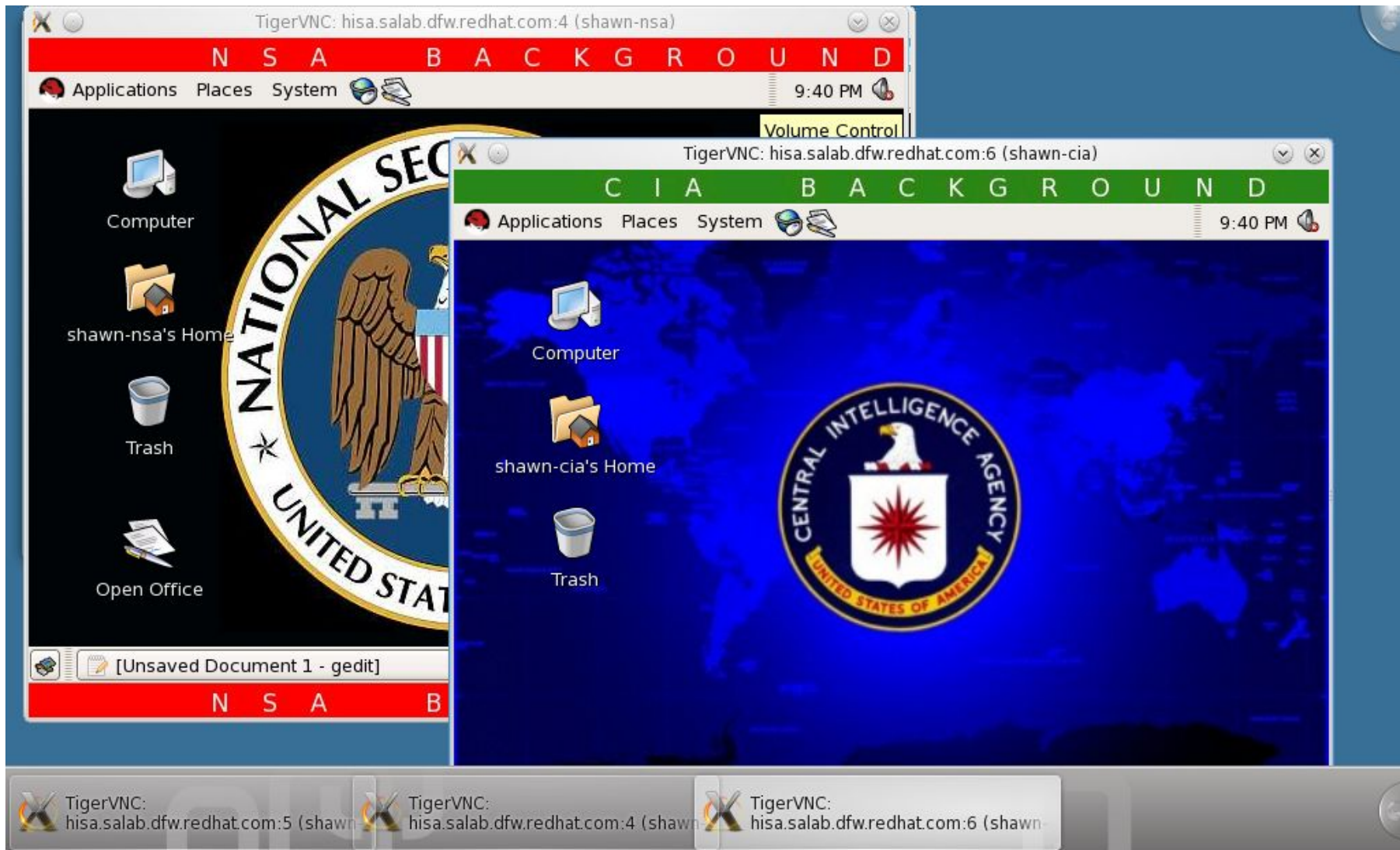
Base Desktop View

Virtual Connection View: Single Desktop

Virtual Connection View: Multi Desktop

Desktop System Security

- Relevant U.S. Government Red Hat Enterprise Linux 5 security certifications
  - EAL4+ Common Criteria Certification (LSPP, RBAC, CAPP)
    on IBM & HP hardware
  - DCID 6/3 (used up to PL5)
  - DISA STIG

- Devices will run in "kiosk" mode
  - No ability for users to retain information or configuration locally on the system
    via SELinux
  - Traffic shaping technology secures network traffic to appropriate
    desktop/Citrix instance
  - No local users
  - No local data files

Desktop System Management

- Full management by Red Hat Satellite Server, a systems management platform designed to provide complete lifecycle management of the operating system and applications.

  - Standardized Provisioning ("golden builds")

  - Centralized software management (security patches, hardware drivers, etc)

- Same management software for both servers and desktops;
  one standard management suite for both

Red Hat Provided Content

Custom Content

RHN Satellite Software
- Software Distribution
- Account Management
- Channel Management
- Monitoring
- Provisioning

MANAGED SERVERS

MANAGED DESKTOPS

7

Desktop System Management: Update

Easily obtain security updates, patches, and new OS versions

Remove undesired packages through the simple RHN web interface

Automatically update systems with the latest security fixes

Desktop System Management: Manage

Manage groups of systems as easily as a single system

Assign permissions to administrators for managing different groups or roles

Schedule updates to occur during maintenance windows

Desktop System Management: Provision

Provision existing or bare metal systems using predetermined profiles or system cloning

Improve consistency by using RHN to manage and deploy configuration files

Undo problematic changes with snapshots and rollback

Desktop System Management: Monitor

Dozens of low-impact probes can be set for each system

Group probes into suites for fast deployment

Receive email or pager notices when a probe reaches a predefined warning or critical threshold