

# Air-Gapped Compliance and Minimal Exposure

*Securing Datacenter Provisioning with Create-V*

## 1. The Security Risk of Prolonged Access

In highly secure datacenters—governed by frameworks such as ISO 27001, SOC 2, HIPAA, or strict military protocols—physical and logical access to hypervisor hosts is considered a critical vulnerability.

The traditional provisioning process requires a Systems Administrator to establish an RDP or management session into the core cluster, manually clicking through the Hyper-V GUI or writing scripts for hours. This prolonged 'Technician-to-Equipment Exposure Time' dramatically increases the risk of insider threats, session hijacking, and catastrophic human error during an open administrative window.

## 2. Minimizing Technician-to-Equipment Exposure Time

Create-V introduces a paradigm shift in secure operations by completely separating the 'Design Phase' from the 'Execution Phase'.

An architect can design the entire 50-VM topology safely in the office using the Create-V HTML file, generating the JSON blueprint and PowerShell script. The execution phase then requires only a fraction of a minute. The technician enters the secure server room (or establishes a heavily monitored jump-host session), executes the script, and closes the session. Exposure time is slashed from 4 hours to 60 seconds, drastically minimizing the attack window.

## 3. True Air-Gapped Integrity

Many modern Infrastructure as Code (IaC) tools claim to be secure but secretly require internet connectivity to download modules, verify licenses, or send telemetry data back to the vendor. This behavior violates strict 'Air-Gap' network isolation policies.

Create-V respects the Air-Gap absolutely. The engine is a single, zero-dependency file that can be carried on an encrypted USB drive. It makes zero outbound network calls, meaning it can operate deep within Faraday-caged or isolated environments without triggering firewall alarms or breaking Zero-Trust policies.

#### **4. Immutable Audit Trails via Native Transcripts**

Compliance auditors do not trust GUI clicks. They require verifiable, immutable logs of exactly what commands were executed on the infrastructure.

Create-V solves this natively. Every script generated by the orchestrator automatically enforces PowerShell Transcription (`Start-Transcript``). Every cmdlet executed, every parameter passed, and every skipped VM is permanently recorded into a secure text file on the host. This provides an undisputed, human-readable audit trail that proves to compliance officers exactly what changes were enacted, without relying on third-party logging agents.