

# EMC CONSULTING VIRTUALIZATION AND CLOUD SECURITY SERVICES

## Securely leverage the benefits of virtualization technologies

### ESSENTIALS

EMC® Consulting's experts in virtualization and private cloud security can assist you in moving your security posture to the next level to gain a sustainable competitive advantage.

- Implement short-, mid-, and long-term strategies to improve overall security and compliance across virtual infrastructure environments
- Provide, create, and communicate decision-grade analysis to extend and improve your organization's security management fabric into the virtual world
- Develop a private and public cloud security data management strategy to maintain compliance, as well as take advantage of cost savings and increased business agility
- Leverage critical guidance to evaluate, implement, or enhance virtual desktop security, to realize the advantages of lower cost and greater endpoint security

Underutilized assets, overburdened facilities, reduced resources, and rising energy costs all drive organizations to seek relief in virtualization technologies and the benefits of cloud computing. Virtualization enables organizations to consolidate assets and operations, reduce their facility and energy footprints, and increase business agility. It is also transformative technology, as organizations consider the implications, opportunities, and challenges on the journey toward the private cloud and business-driven IT as a service.

The benefits associated with this new technology landscape create real value across organization IT and business environments. The critical challenge facing organizations today is how to provide effective security management and control while maximizing the benefits of virtualization and cloud computing.

### SECURELY LEVERAGING VIRTUALIZATION AND CLOUD TO ACHIEVE YOUR BUSINESS OBJECTIVES

The management disciplines and security practices that serve the physical world well—people, process, and technology—can be equally applied in virtual and cloud environments. And while improvements in systems management are addressing numerous challenges in managing virtualized infrastructure, many organizations are still grappling with security implications, risks, and advantages within virtualized and cloud environments.

Yet, it holds true in the virtual world, as it does in the physical world, that superior results are obtained by designing security in from the start: “built in” rather than “bolted on.”

EMC Consulting can help you implement effective strategies and programs to accelerate your virtualization and private cloud security objectives. We speed innovation with our expertise in security requirements combined with our deep industry understanding. We apply business context to protect and maximize the value of information, identities, and infrastructure across virtual environments, public clouds, and private clouds.

We have proven experience in accelerating the benefits of virtualization. We leverage the security expertise and industry leadership of RSA®, The Security Division of EMC, to advance and optimize security strategies and risk postures while transforming security to a business enabler.

Our Virtualization and Cloud Security Services accelerate your return on investment by expediting the secure adoption and implementation of virtualization technologies. We offer comprehensive information security services that address all aspects of your virtual infrastructure.



## VIRTUALIZATION AND PRIVATE CLOUD SECURITY SERVICES

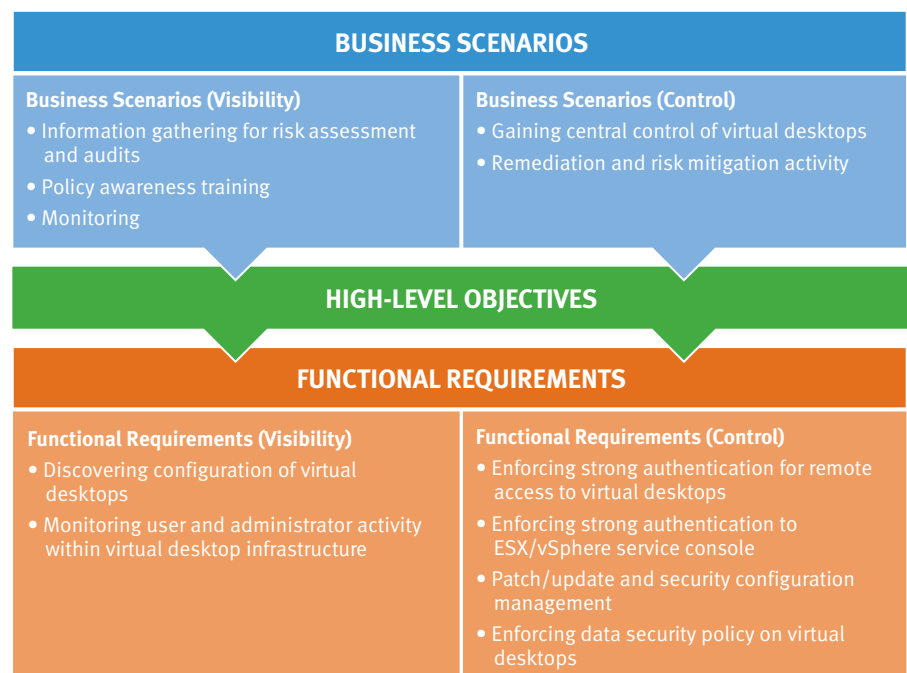
**Virtualization and Private Cloud Security Strategy:** This service provides you with a decision-grade report on operational requirements and compliance, focusing on organization and prioritization of data assets within the virtualized environment, private cloud, and public cloud.

The Virtualization and Private Cloud Security Strategy initiative is designed for organizations that need assistance in establishing a direction for security management support of virtualization and/or cloud solutions.

We work with you to:

- Understand and report on management and compliance metrics that must be in place to support the varying tiers of data assets
- Provide implementation roadmaps with budget estimates and targeted timelines to place the organization in the 40 percent of environments that Gartner estimates will be as secure as their physical counterparts
- Ensure the ability to achieve security and compliance targets while preserving virtualization benefits
- Establish a target maturity level that defines the tipping point between build and maintain points

**Security Assessment for Virtualized Environments:** This service provides strategic guidance in defining short-, mid-, and long-term strategies to improve overall security and compliance across virtual infrastructure environments.



We work with you to:

- Review current VE practices and controls including:
  - IT operational controls, such as change and configuration management
  - Security policies, standards, and procedures—includes VM hardening requirements
  - VE management structure and configuration
  - VM lifecycle management
- Report on gaps between current practices and controls and desired state
- Provide recommendations for achieving desired state
- Develop roadmap for implementation of recommendations

**Secure Virtualization Design:** This service analyzes both traditional and private cloud architectures to establish security reference architecture for the deployment of data protection technology, process modifications, and policy changes to provide for effective security management within the new platform.

We work with you to establish an implementation roadmap, building, when required, on existing frameworks, to accomplish the following objectives:

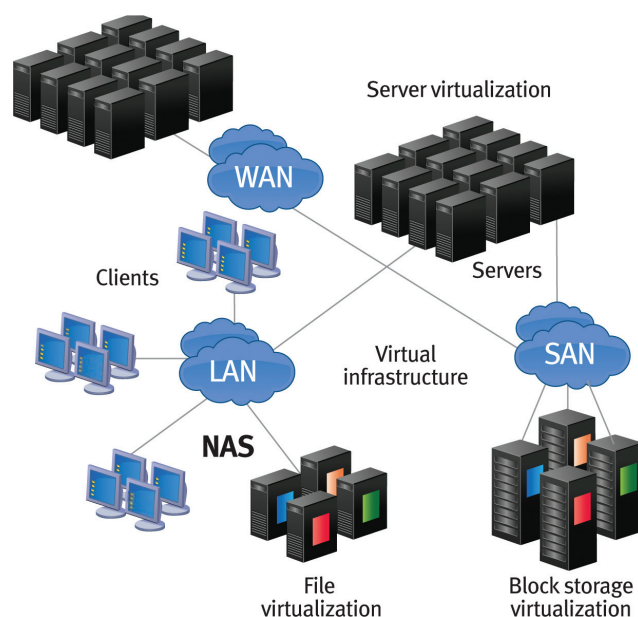
- Build a detailed architectural plan for security management—separation of duties, data classification enforcement, traffic isolation, identity management, and monitoring/reporting
- Develop secure configuration standards for each virtualization element, as well as the management layer
- After-action testing and evaluation to determine the end state and document the technical and procedural challenges that necessitated design changes

**Secure Virtualization Management:** The service establishes the baseline for ongoing support and security management operations of the new environment. The key benefit of this service is providing the capability for security organizations to internalize and adapt quickly to the virtualized and cloud platforms to minimize transition risk.

We work with you to:

- Define feedback loops to measure and report on current maturity state
- Demonstrate reporting capability tied to compliance and internal standards
- Document data classification policies and enforcement within virtual and cloud environments
- Develop granular access control and auditing to manage and enforce separation of duties

**Securing Virtual Desktop Infrastructure (VDI):** This service provides critical guidance in evaluating, implementing, or enhancing virtual desktop security. We help organizations realize the advantages of lower cost and greater endpoint security. Securing endpoints such as laptops and desktops to mitigate risks, such as accidental data loss, theft, or inappropriate access to sensitive information and applications, is one of the biggest challenges in IT today.



In an effort to reduce risk while capitalizing on the proven operational and cost benefits of virtualization technology, many organizations have started to migrate to a hosted virtual desktop environment.

We work with you to:

- Determine whether and where sensitive content exists on virtual desktops
- Establish and enforce restrictions on the actions a user or role can perform on sensitive content
- Ensure only authorized users connect to virtual desktops
- Establish a standard virtual desktop configuration and centrally enforce compliance to this standard
- Ensure that the latest security updates and patches are applied
- Capture and report on user activity across virtual desktops

## EMC CONSULTING FOR YOUR VIRTUALIZATION AND CLOUD SECURITY PROGRAMS

EMC Consulting's world-class expertise in virtualization and private cloud security can enable your organization to move its security posture to the next level and gain a sustainable competitive advantage.

RSA, The Security Division of EMC, is a global leader in authentication and security event management and GRC management platforms. We benefit from their deep insight into security architectures, concepts, and solutions.

We have hundreds of certified professionals, who have delivered thousands of projects with some of the most information-intensive organizations in the world—meeting challenges that other consulting organizations are just starting to consider.

## EMC CONSULTING

As part of EMC Corporation, the world's leading developer and provider of information infrastructure technology and solutions, EMC Consulting provides strategic guidance and technology expertise to help organizations exploit information to its maximum potential. With worldwide expertise across organizations' businesses, applications, and infrastructures, as well as deep industry understanding, EMC Consulting guides and delivers revolutionary thinking to help clients realize their ambitions in an information economy. EMC Consulting drives execution for its clients, including more than half of the Global Fortune 500 companies, to transform information into actionable strategies and tangible business results.

### CONTACT US

For more information, visit [www.EMC.com/consulting](http://www.EMC.com/consulting), or contact your local EMC Consulting representative.

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