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MICROSOFT AZURE SQL DATABASE SECURITY TECHNICAL IMPLEMENTATION GUIDE (STIG) OVERVIEW

Version 2, Release 4

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Developed by Microsoft and DISA for the DoW

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TABLE OF CONTENTS

	Page
1. INTRODUCTION.....	1
1.1 Executive Summary	1
1.2 Authority	1
1.3 Vulnerability Severity Category Code Definitions	1
1.4 STIG Distribution	2
1.5 SRG Compliance Reporting.....	2
1.6 Document Revisions	2
1.7 Other Considerations	2
1.8 Product Approval Disclaimer	3
2. ASSESSMENT CONSIDERATIONS.....	4
2.1 Security Assessment Information.....	4
2.2 Accessing Azure Portal	4

LIST OF TABLES

	Page
Table 1-1: Vulnerability Severity Category Code Definitions	2

1. INTRODUCTION

1.1 Executive Summary

The Microsoft Azure SQL Database Security Technical Implementation Guide (STIG) is published as a tool to improve the security of Department of War (DoW) information systems. This document provides technical security policies, requirements, and implementation details for applying security concepts to the Microsoft Azure SQL Database configuration and administrative web portal access. It is meant to be used as applicable to the database host environment. It is based on the Database Security Requirements Guide (SRG) Version 2, Release 10, which derives its cybersecurity controls from National Institute of Standards and Technology (NIST) Special Publication (SP) 800-53, Revision 4.

Microsoft Azure SQL Database is a managed cloud database provided as part of Microsoft Azure. A cloud database is a database that runs on a cloud computing platform, and access to it is provided as a service. Managed database services take care of scalability, backup, and high availability of the database.

Microsoft Azure SQL Database should be configured on a DoW tenant with applicable FedRAMP controls.

1.2 Authority

Department of Defense Instruction (DODI) 8500.01 requires that “all IT [information technology] that receives, processes, stores, displays, or transmits DOD information will be [...] configured [...] consistent with applicable DOD cybersecurity policies, standards, and architectures.” The instruction tasks that DISA “develops and maintains control correlation identifiers (CCIs), security requirements guides (SRGs), security technical implementation guides (STIGs), and mobile code risk categories and usage guides that implement and are consistent with DOD cybersecurity policies, standards, architectures, security controls, and validation procedures, with the support of the NSA/CSS [National Security Agency/Central Security Service], using input from stakeholders, and using automation whenever possible.” This document is provided under the authority of DODI 8500.01.

Although the use of the principles and guidelines in these SRGs/STIGs provides an environment that contributes to the security requirements of DoW systems, applicable NIST SP 800-53 cybersecurity controls must be applied to all systems and architectures based on the Committee on National Security Systems (CNSS) Instruction (CNSSI) 1253.

1.3 Vulnerability Severity Category Code Definitions

Severity Category Codes (referred to as CAT) are a measure of vulnerabilities used to assess a facility or system security posture. Each security policy specified in this document is assigned a Severity Category Code of CAT I, II, or III.

Table 0-1: Vulnerability Severity Category Code Definitions

Category	DISA Category Code Guidelines
CAT I	Any vulnerability, the exploitation of which will directly and immediately result in loss of Confidentiality, Availability, or Integrity.
CAT II	Any vulnerability, the exploitation of which has a potential to result in loss of Confidentiality, Availability, or Integrity.
CAT III	Any vulnerability, the existence of which degrades measures to protect against loss of Confidentiality, Availability, or Integrity.

1.4 STIG Distribution

Parties within the DoW and federal government's computing environments can obtain the applicable STIG from the DoW Cyber Exchange website at <https://cyber.mil/>. This site contains the latest copies of STIGs, SRGs, and other related security information. Those without a common access card (CAC) that has DoW Certificates can obtain the STIG from <https://public.cyber.mil/>.

1.5 SRG Compliance Reporting

All technical NIST SP 800-53 requirements were considered while developing this STIG. Requirements that are applicable and configurable will be included in the final STIG. A report marked Controlled Unclassified Information (CUI) will be available for items that did not meet requirements. This report will be available to component authorizing official (AO) personnel for risk assessment purposes by request via email to: disa.stig_spt@mail.mil.

1.6 Document Revisions

Comments or proposed revisions to this document should be sent via email to the following address: disa.stig_spt@mail.mil. DISA will coordinate all change requests with the relevant DoW organizations before inclusion in this document. Approved changes will be made in accordance with the DISA maintenance release schedule.

1.7 Other Considerations

DISA accepts no liability for the consequences of applying specific configuration settings made on the basis of the SRGs/STIGs. It must be noted that the configuration settings specified should be evaluated in a local, representative test environment before implementation in a production environment, especially within large user populations. The extensive variety of environments makes it impossible to test these configuration settings for all potential software configurations.

For some production environments, failure to test before implementation may lead to a loss of required functionality. Evaluating the risks and benefits to a system's particular circumstances and requirements is the system owner's responsibility. The evaluated risks resulting from not applying specified configuration settings must be approved by the responsible AO. Furthermore, DISA implies no warranty that the application of all specified configurations will make a system 100 percent secure.

Security guidance is provided for the DoW. While other agencies and organizations are free to use it, care must be given to ensure that all applicable security guidance is applied at both the device hardening level and the architectural level due to the fact that some settings may not be configurable in environments outside the DoW architecture.

1.8 Product Approval Disclaimer

STIGs provide configurable operational security guidance for products being used by the DoW. STIGs, along with vendor confidential documentation, also provide a basis for assessing compliance with cybersecurity controls/control enhancements, which supports system assessment and authorization (A&A) under the DoW Risk Management Framework (RMF). DoW AOs may request available vendor confidential documentation for a product that has a STIG for product evaluation and RMF purposes from disa.stig_spt@mail.mil. This documentation is not published for general access to protect the vendor's proprietary information.

AOs have the purview to determine product use/approval in accordance with (IAW) DoW policy and through RMF risk acceptance. Inputs into acquisition or preacquisition product selection include such processes as:

- National Information Assurance Partnership (NIAP) evaluation for National Security Systems (NSS) (<https://www.niap-ccevs.org/>) IAW CNSSP #11.
- National Institute of Standards and Technology (NIST) Cryptographic Module Validation Program (CMVP) (<https://csrc.nist.gov/groups/STM/cmvp/>) IAW federal/DoW mandated standards.

2. ASSESSMENT CONSIDERATIONS

2.1 Security Assessment Information

Microsoft Azure SQL Database is a relational database service built for the cloud. It is part of an Azure family of services available through the Azure Portal. This STIG is specific to the Azure SQL Database.

While the STIG contents are classified as manual guidance, many checks and fixes include sample and/or actual code for executing the checks and fixes.

Additional guidance on configuring audits for Azure SQL Database is provided in a supplemental document in the STIG package.

This guidance is but one component of a robust defense-in-depth strategy. The instructions are meant to provide comprehensive coverage of pertinent vulnerabilities. It is also necessary to train administrative and general users in the importance of good security practices.

2.2 Accessing Azure Portal

The Azure Portal is the web access portal for administration of the Azure products. Many configuration settings can be performed by accessing the Azure Portal via the web. Access to the Azure Portal will require a subscription that will need to be purchased from Microsoft.