

6 RIFERIMENTI A ISTRUZIONI OPERATIVE E TOOLS DI HARDENING

6.1 Istruzioni operative (benchmarks) di terze parti

Si riporta nel seguito l'elenco completo dei riferimenti alle istruzioni operative di hardening (o benchmarks) delle varie componenti (sistemi operativi, middleware, office automation, ecc.) che sono state oggetto di analisi nei capitoli precedenti.

Fonte	Categoria	Famiglia	Target	Titolo
CIS Benchmarks	Sistemi Operativi	Linux	Ubuntu	Securing Ubuntu Linux - An objective, consensus-driven security guideline for the Ubuntu Linux Operating Systems. https://www.cisecurity.org/benchmark/ubuntu_linux/
CIS Benchmarks	Sistemi Operativi	Linux	CentOS	Securing CentOS Linux - An objective, consensus-driven security guideline for the CentOS Linux Operating Systems. https://www.cisecurity.org/benchmark/centos_linux/
CIS Benchmarks	Sistemi Operativi	Linux	Red Hat	Securing Red Hat Linux - An objective, consensus-driven security guideline for the Red Hat Linux Operating Systems. https://www.cisecurity.org/benchmark/red_hat_linux/
CIS Benchmarks	Sistemi Operativi	Linux	Debian	Securing Debian Linux - An objective, consensus-driven security guideline for the Debian Linux Operating Systems. https://www.cisecurity.org/benchmark/debian_linux/
CIS Benchmarks	Sistemi Operativi	Linux	Oracle Linux	Securing Oracle Linux - An objective, consensus-driven security guideline for the Oracle Linux Operating Systems. https://www.cisecurity.org/benchmark/oracle_linux/
CIS Benchmarks	Sistemi Operativi	Linux	SUSE	Securing SUSE Linux - An objective, consensus-driven security guideline for the SUSE Linux Operating Systems. https://www.cisecurity.org/benchmark/suse_linux/
CIS Benchmarks	Sistemi Operativi	UNIX	AIX 7.1	CIS IBM AIX 7.1 Benchmark https://www.cisecurity.org/benchmark/ibm_aix
CIS Benchmarks	Sistemi Operativi	UNIX	Solaris 11.1	CIS Oracle Solaris 11.1 Benchmark https://www.cisecurity.org/benchmark/oracle_solaris
CIS Benchmarks	Sistemi Operativi	UNIX	Solaris 11	CIS Oracle Solaris 11 Benchmark https://www.cisecurity.org/benchmark/oracle_solaris
CIS Benchmarks	Sistemi Operativi	UNIX	Solaris 10	CIS Oracle Solaris 10 Benchmark https://www.cisecurity.org/benchmark/oracle_solaris
CIS Benchmarks	Sistemi Operativi	Windows Desktop	Windows 10	CIS Benchmarks for CIS Microsoft Windows 10 Enterprise: Securing Microsoft Windows Desktop - An objective, consensus-driven security guideline for the Microsoft Windows Desktop Operating Systems - For Microsoft Windows Desktop 10 https://www.cisecurity.org/benchmark/microsoft_windows_desktop/
CIS Benchmarks	Sistemi Operativi	Windows Desktop	Windows 8.1	CIS Microsoft Windows 8.1 Workstation Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_desktop/
CIS Benchmarks	Sistemi Operativi	Windows Desktop	Windows 8	CIS Microsoft Windows 8 Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_desktop/

CIS Benchmarks	Sistemi Operativi	Windows Desktop	Windows 7	CIS Microsoft Windows 7 Workstation Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_desktop/
CIS Benchmarks	Sistemi Operativi	Windows Desktop	Windows XP	CIS Microsoft Windows XP Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_desktop/
CIS Benchmarks	Sistemi Operativi	Windows Server	2016	CIS Microsoft Windows Server 2016 RTM Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_server/
CIS Benchmarks	Sistemi Operativi	Windows Server	2012 R2	CIS Microsoft Windows Server 2012 R2 Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_server/
CIS Benchmarks	Sistemi Operativi	Windows Server	2012	CIS Microsoft Windows Server 2012 (non-R2) Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_server/
CIS Benchmarks	Sistemi Operativi	Windows Server	2008 R2	CIS Microsoft Windows Server 2008 R2 Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_server/
CIS Benchmarks	Sistemi Operativi	Windows Server	2008	CIS Microsoft Windows Server 2008 (non-R2) Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_server/
CIS Benchmarks	Sistemi Operativi	Windows Server	2003	CIS Microsoft Windows Server 2003 Benchmark https://www.cisecurity.org/benchmark/microsoft_windows_server/
CIS Benchmarks	Collaboration Server	Microsoft SharePoint	2019	CIS Microsoft SharePoint 2019 Benchmark https://www.cisecurity.org/benchmark/microsoft_sharepoint/
CIS Benchmarks	Collaboration Server	Microsoft SharePoint	2016	CIS Microsoft SharePoint 2016 Benchmark https://www.cisecurity.org/benchmark/microsoft_sharepoint/
CIS Benchmarks	Web Application Server /	Microsoft IIS	IIS 10	CIS Microsoft IIS 10 Benchmark https://www.cisecurity.org/benchmark/microsoft_iis/
CIS Benchmarks	Web Application Server /	Microsoft IIS	IIS 8	CIS Microsoft IIS 8 Benchmark https://www.cisecurity.org/benchmark/microsoft_iis/
CIS Benchmarks	Web Application Server /	Microsoft IIS	IIS 7	CIS Microsoft IIS 7 Benchmark https://www.cisecurity.org/benchmark/microsoft_iis/
CIS Benchmarks	Web Application Server /	Apache HTTP	2.4	CIS Apache HTTP Server 2.4 Benchmark https://www.cisecurity.org/benchmark/apache_http_server/
CIS Benchmarks	Web Application Server /	Apache HTTP	2.2	CIS Apache HTTP Server 2.2 Benchmark https://www.cisecurity.org/benchmark/apache_http_server/
CIS Benchmarks	Web Application Server /	Apache Tomcat	9	CIS Apache Tomcat 9 Benchmark https://www.cisecurity.org/benchmark/apache_tomcat/
CIS Benchmarks	Web Application Server /	Apache Tomcat	8	CIS Apache Tomcat 8 Benchmark https://www.cisecurity.org/benchmark/apache_tomcat/
CIS Benchmarks	Web Application Server /	Apache Tomcat	7	CIS Apache Tomcat 7 Benchmark https://www.cisecurity.org/benchmark/apache_tomcat/
CIS Benchmarks	DBMS	Microsoft SQL Server	2016	CIS Microsoft SQL Server 2016 Benchmark https://www.cisecurity.org/benchmark/microsoft_sql_server/

CIS Benchmarks	DBMS	Microsoft SQL Server	2014	CIS Microsoft SQL Server 2014 Benchmark https://www.cisecurity.org/benchmark/microsoft_sql_server/
CIS Benchmarks	DBMS	Microsoft SQL Server	2012	CIS Microsoft SQL Server 2012 Benchmark https://www.cisecurity.org/benchmark/microsoft_sql_server/
CIS Benchmarks	DBMS	Microsoft SQL Server	2008 R2	CIS Microsoft SQL Server 2008 R2 Benchmark https://www.cisecurity.org/benchmark/microsoft_sql_server/
CIS Benchmarks	DBMS	Oracle DB	12c	CIS Oracle Database 12c Benchmark https://www.cisecurity.org/benchmark/oracle_database/
CIS Benchmarks	DBMS	Oracle DB	11g R2	CIS Oracle Database 11g R2 Benchmark https://www.cisecurity.org/benchmark/oracle_database/
CIS Benchmarks	DBMS	Oracle DB	11 – 11g	CIS Oracle Database Server 11 - 11g Benchmark https://www.cisecurity.org/benchmark/oracle_database/
CIS Benchmarks	DBMS	Oracle MySQL	5.7 EE	CIS Oracle MySQL Enterprise Edition 5.7 Benchmark https://www.cisecurity.org/benchmark/oracle_mysql/
CIS Benchmarks	DBMS	Oracle MySQL	5.7 CE	CIS Oracle MySQL Community Server 5.7 Benchmark https://www.cisecurity.org/benchmark/oracle_mysql/
CIS Benchmarks	DBMS	Oracle MySQL	5.6 EE	CIS Oracle MySQL Enterprise Edition 5.6 Benchmark https://www.cisecurity.org/benchmark/oracle_mysql/
CIS Benchmarks	DBMS	Oracle MySQL	5.6 CE	CIS Oracle MySQL Community Server 5.6 Benchmark https://www.cisecurity.org/benchmark/oracle_mysql/
CIS Benchmarks	DBMS	IBM DB2	10	CIS IBM DB2 10 Benchmark https://www.cisecurity.org/benchmark/ibm_db2/
CIS Benchmarks	DBMS	IBM DB2	9	CIS IBM DB2 9 Benchmark https://www.cisecurity.org/benchmark/ibm_db2/
CIS Benchmarks	DBMS	IBM DB2	8	CIS IBM DB2 Benchmark https://www.cisecurity.org/benchmark/ibm_db2/
CIS Benchmarks	DNS Server	BIND	9.9	CIS ISC BIND DNS Server 9.9 Benchmark https://www.cisecurity.org/benchmark/bind/
CIS Benchmarks	Mail Server	Microsoft Exchange Server	2016	CIS Microsoft Exchange Server 2016 Benchmark https://www.cisecurity.org/benchmark/microsoft_exchange_server/
CIS Benchmarks	Mail Server	Microsoft Exchange Server	2013	CIS Microsoft Exchange Server 2013 Benchmark https://www.cisecurity.org/benchmark/microsoft_exchange_server/
CIS Benchmarks	Mail Server	Microsoft Exchange Server	2010	CIS Microsoft Exchange Server 2010 Benchmark https://www.cisecurity.org/benchmark/microsoft_exchange_server/
CIS Benchmarks	Office Automation	Microsoft Office	Office 365 2016 2013	CIS Microsoft Office 365 Benchmark CIS Microsoft Office Word 365 Benchmark CIS Microsoft Office Excel 365 Benchmark CIS Microsoft Office PowerPoint 365 Benchmark

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CIS Benchmarks	Web Browser	Internet Explorer	11	CIS Microsoft Internet Explorer 11 Benchmark https://www.cisecurity.org/benchmark/microsoft_internet_explorer/
CIS Benchmarks	Web Browser	Internet Explorer	10	CIS Microsoft Internet Explorer 10 Benchmark https://www.cisecurity.org/benchmark/microsoft_internet_explorer/
CIS Benchmarks	Web Browser	Mozilla Firefox		CIS Mozilla Firefox 38 ESR Benchmark https://www.cisecurity.org/benchmark/mozilla_firefox/
CIS Benchmarks	Web Browser	Mozilla Firefox		CIS Mozilla Firefox 24 ESR Benchmark https://www.cisecurity.org/benchmark/mozilla_firefox/
CIS Benchmarks	Web Browser	Google Chrome		CIS Google Chrome Benchmark https://www.cisecurity.org/benchmark/google_chrome/
CIS Benchmarks	Networking	Cisco IOS	IOS 15	CIS Cisco IOS 15 Benchmark https://www.cisecurity.org/benchmark/cisco/
CIS Benchmarks	Networking	Cisco IOS	IOS 12	CIS Cisco IOS 12 Benchmark https://www.cisecurity.org/benchmark/cisco/

6.2 Tools di hardening e baseline di sicurezza fornite dai vendor

Si riporta nel seguito un elenco di strumenti software (laddove disponibili) e baseline di sicurezza, per la configurazione sicura (hardening) dei principali sistemi target.

Fonte	Categoria	Famiglia	Target	Titolo
Microsoft	Sistemi Operativi	Windows	Windows Server & Client	<p>Microsoft Security Compliance Manager (SCM)</p> <p>È uno strumento gratuito di Microsoft che consente di gestire correttamente e agilmente la sicurezza dell'infrastruttura IT e delle applicazioni, analizzando la propria infrastruttura e configurandola seguendo le raccomandazioni di Microsoft.</p> <p>Consente una gestione centralizzata dell'insieme delle baseline di sicurezza, con la possibilità di gestire specifiche personalizzazioni in base a specifiche esigenze di certi sistemi.</p> <p>Consente inoltre di esportare le configurazioni in vari formati tra cui XLS (Excel) e GPO (Group Policy Objects).</p> <p>Supporta i sistemi operativi Windows Server e Windows Client.</p> <p>https://www.microsoft.com/en-us/download/details.aspx?id=53353</p>
Microsoft	Web Server	IIS	8	<p>Security Best Practices for IIS 8</p> <p>https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2012-R2-and-2012/jj635855(v=ws.11)?redirectedfrom=MSDN</p>
Microsoft	DBMS	SQL Server	2010-2016	<p>Non è disponibile ad oggi un tool specifico ma esiste una pagina di riferimento di Microsoft aggiornata che contiene opportune indicazioni per la configurazione sicura di SQL Server:</p> <p>https://docs.microsoft.com/en-us/sql/relational-databases/security/securing-sql-server#sql-server-security-tools-utilities-views-and-functions</p> <p>Esiste inoltre una pagina ulteriore di supporto per specifici task di configurazione sicura che riguardano non solo SQL Server ma più in generale l'accesso ai dati:</p> <p>Security Checklists for the Database Engine:</p> <ul style="list-style-type: none"> • Checklist: Database Engine Security Configuration • Checklist: Enhancing the Security of Database Engine Connections • Checklist: Limiting Access to Data • Checklist: Encrypting Sensitive Data <p>https://docs.microsoft.com/en-us/previous-versions/sql/sql-server-2008-r2/ff848778(v=sql.105)?redirectedfrom=MSDN</p>
Bastille	Sistemi Operativi	Linux (RedHat, SUSE, Debian, Ubuntu) e HP-UX	Vari	<p>Bastille Linux è un tool gratuito per l'hardening di vari sistemi operative Linux (RedHat, Debian, SUSE, ecc.) e HP-UX.</p> <p>Sulla maggior parte dei sistemi operativi supportati fa parte della distribuzione standard ed è quindi immediatamente disponibile per l'uso.</p> <p>http://bastille-linux.sourceforge.net/</p>
Apache Software Foundation	Web Server	Apache HTTP	2.4	<p>Security Tips - Apache HTTP Server Version 2.4</p> <p>https://httpd.apache.org/docs/2.4/misc/security_tips.html</p>
Apache Software Foundation	Web Server	Tomcat	8	<p>Apache Tomcat 8 Security Considerations</p> <p>https://tomcat.apache.org/tomcat-8.0-doc/security-howto.html</p>

Oracle	DBMS	Oracle Database	12c 11g	<p>Oracle Database 12c Security and Compliance</p> <p>https://www.oracle.com/webfolder/s/delivery_production/docs/FY15h1/doc6/security-compliance-wp.pdf</p> <p>Cost Effective Security and Compliance with Oracle Database 11g</p> <p>http://www.oracle.com/technetwork/database/security/owp-security-database-11gr2-134651.pdf</p> <p>L'elenco del software Oracle legato alla sicurezza del prodotto Oracle Database è disponibile a questo indirizzo:</p> <p>Oracle Database Security Products</p> <p>https://www.oracle.com/database/security/products.html</p>
Oracle	Database	Oracle MySQL	5.7	<p>MySQL Security Guide, parte di MySQL Reference Manual</p> <p>Un estratto è disponibile a questo link:</p> <p>https://dev.mysql.com/doc/mysql-security-excerpt/5.7/en/</p>
McAfee	Database	Oracle MySQL	Varie	<p>McAfee MySQL Database Security Tool (gratuito):</p> <p>https://www.mcafee.com/content/enterprise/en-us/downloads/trials.html?query=database</p>
Microsoft	Mail Server	Exchange Server	2016 2013 2010	<p>Offline Assessment for Exchange Server Security</p> <p>http://download.microsoft.com/download/1/C/1/1C15BA51-840E-498D-86C6-4BD35D33C79E/Prerequisites_Offline_EXCHSec.pdf</p>