

Phone: 703.483.6383 Fax: 703.991.5341 www.controlcase.com

ControlCase[™] Data Discovery

Version 10.9
Updated June 2024

CDD Standalone Quick Start Guide

ControlCase Data Discovery (CDD) helps you find credit and debit card information (and other sensitive data) that could be stored in your systems in violation of the Payment Card Industry Data Security Standard (PCI DSS) or other regulations



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Please ensure the following:

- The CDD Installation machine (scanner machine) needs to be a "brand new 64-bit" machine of
 - a. Windows 2016 or 2019 Server, Windows Server 2022,
 - b. Windows Server 2012 R2 Service Pack 1

We do not support any other operating systems, even if CDD may be installed on them.

- 2. Windows Operating system should be in the **English** language (other languages are not supported at this time).
- 3. The machine should be a 1 or 2 core 2.4GHz CPU or better with at least 200GB disk space free and 8 GB RAM. If Windows can run well on the hardware, so can CDD.
- 4. CDD installs on both physical and virtual machines.
- 5. We need **administrator credentials** on this machine to install the software and this administrator account should be a "true" administrator and have ALL access rights to the machine including but not limited to "Run as Service", "Install scheduled tasks", "Access the network", "RDP inbound".
- 6. Visual C++ Redistributable for 2015, 2017, 2019, and 2022 from Microsoft https://learn.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170
- 7. The file system targets that need to be scanned should allow <u>standard</u> <u>Windows Networking (Port 445)</u>, <u>Administrative shares (ADMIN\$ etc) and RPC ports</u>. Windows <u>File sharing needs to be enabled</u> on both scanner and target machines.

More information on permissions, firewall ports, protocols etc. required by CDD can be found at https://help.controlcase.com/kb/cddsettings/







Please download and install CDD 10.9 from https://home.controlcase.com/downloads/CDD OnPrem V10.9.0.1.exe

Then download and install CDD 10.9.2.0 Upgrade Patch from https://home.controlcase.com/downloads/CDD 10.9.2.0 HTTPS For WinRM.exe



Upgrades from Previous installed versions



Please DO NOT upgrade the CDD while a scan is running.

If you are upgrading from any other versions, please contact **ControlCase** support for instructions.



If you already have an older version of CDD installed and try to install a brand-new instance, you will be prompted to uninstall the older version. If you do so, you will LOSE all your existing CDD data.

To preserve your existing CDD data, please upgrade by installing a new version.



MICROSOFT EXCHANGE PREREQUISITES

Exchange comes with a specific list of prerequisites which need to be met fully for scans to work.

- 1. The Exchange management console and Windows PowerShell must be installed on the Exchange server.
- 2. The 64-bit Outlook client must be installed on the Exchange server.
- 3. The scanning user must have a mailbox on the Exchange server.
- 4. The scanning user must have the right to create a network share on the target machine.
- 5. The scanning user must have the right to retrieve the list of mailboxes. (Organization management, Exchange management and import/export mailbox).
- 6. The scanning user must have the right to export the mailboxes being scanned.
- 7. The scanning user must have a right to create a Windows Service and run the required executables on the Exchange server.
- 8. The Server must have enough empty hard disk/drive space on any local drive to export the mailbox (At least 50GB of free space at a minimum and 100GB free space is recommended in most cases. However, extremely large mailboxes will need more space).



SCANNING ORACLE DATABASES :: ORACLE CLIENT DOWNLOAD (OPTIONAL)

If you do not plan to scan Oracle Databases, you can skip this download.

If you plan to scan Oracle databases, CDD now uses the Oracle Instant Client, which immensely simplifies the process of connecting to Oracle databases. You will need to download and install the Oracle Instant Client to scan Oracle databases.

Please download it from https://home.controlcase.com/downloads/Oracle Instant Client 11g R2.exe and run it to install and please accept the default prompts.



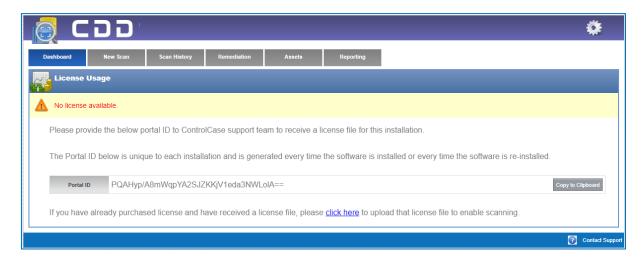
SCANNING DB2, SYBASE AND INFORMIX DATABASES (OPTIONAL)

These databases also require a local DB client to be installed. Please contact <u>ControlCase</u> to get instructions on how to download and install the clients.



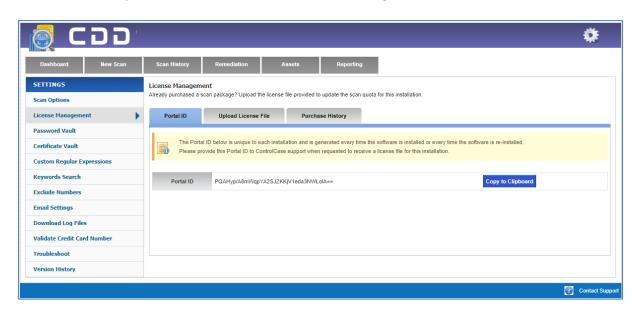
REGISTER A NEW INSTALLATION AND GET A LICENSE

If you installed a new version of CDD (did not upgrade an existing install), you **will need a license key** to activate the product and start scanning. (see picture below). Please contact <u>ControlCase</u> to obtain the license key.



License keys are specific to every installation of CDD and are NOT portable. You will need a new license key if you reinstall CDD.

ControlCase will provide you a license file through email, which you will need to upload back to CDD using the Settings tab -> License Management and "Upload License File" page. Save the file onto your hard disk and then select that file using the Browse. Button and click UPLOAD.



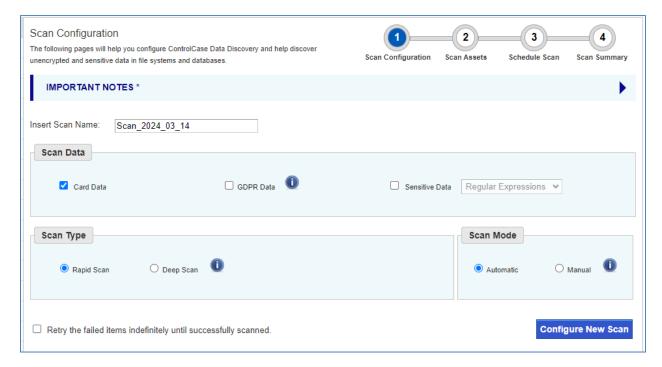




SCANNING FOR CARD DATA - RUNNING A NEW SCAN

Once you are done uploading the license file, please click the New Scan tab to add new scans.

Enter a name (so that you can distinguish among various scans) for the scan and keep the default scan type "Rapid Scan" checked and then click the "Configure New Scan" button.



The major target types we scan are:

- File System Scans Used to scan hard drives on local and network computers for many operating systems (Windows, Linux, MACs, Solaris etc.)
- Database Scans Used to scan databases (SQL Server, Oracle etc.)
- Email Server Scans Used to scan Microsoft Exchange Servers, Office 365, IBM Notes and IMAP
- Application Servers Used to scan SharePoint servers



File System Scans

If you want to scan File systems, you can add 6 types of scans

- Scan local hard disks (attached to the scanning computer)
- Scan File Shares/ Network drives (UNC scans)
- Scan the whole Windows Domain (Active Directory)
- Scan Unix/Linux variants, MAC machines
- Scan Amazon S3 buckets.
- Scan Mainframe files on a File Server (exported samples set of files)

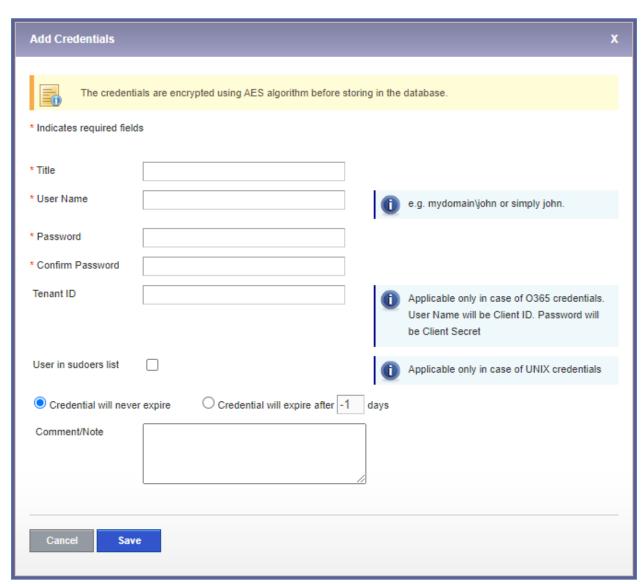


Please select any of the types as needed and enter the relevant data, the screens provide instructions on what information needs to be entered.

The credentials used to authenticate to the target machines to perform the scans are stored in the "Password Vault" in an encrypted state. When scanning a target for the first time, you will need to add the credentials to the Vault. This can be accomplished by clicking the ADD NEW button next to the Credentials

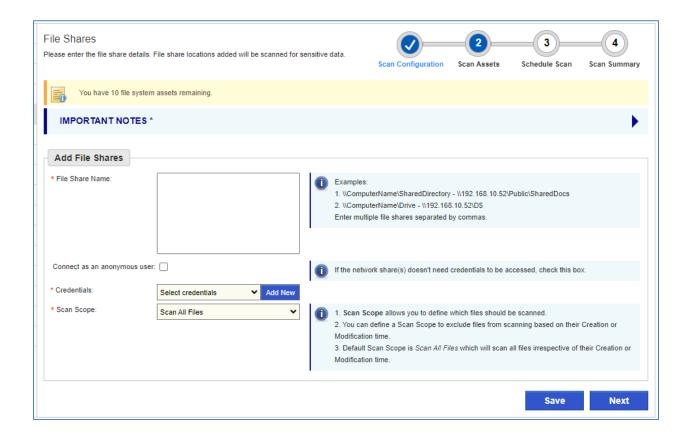


This will bring up another screen where you can add the credentials.



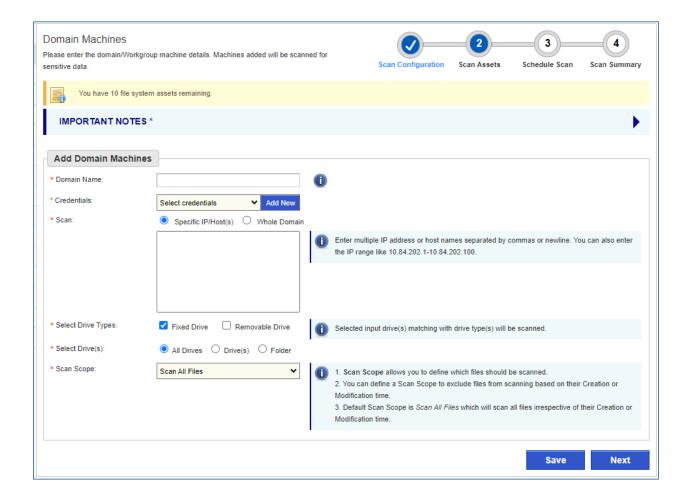


File Share (Network Drive)



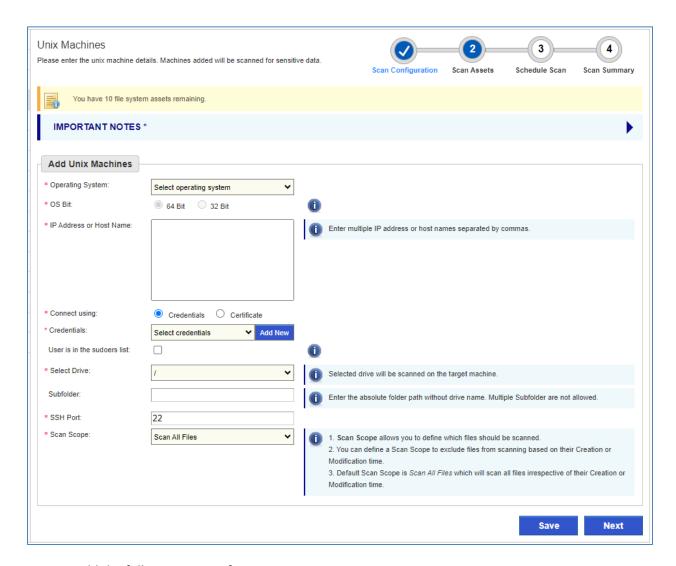


Domain Scan









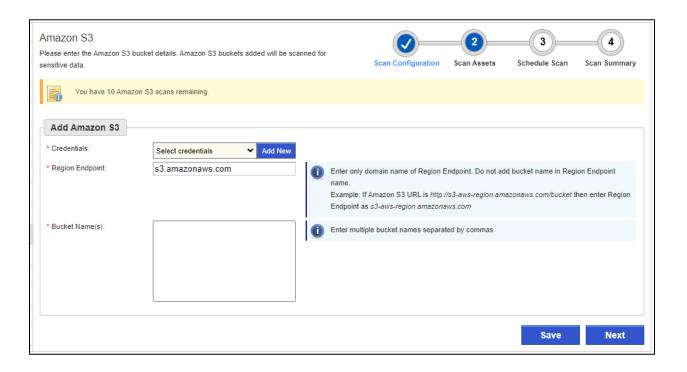
You can add the following types of Operating Systems

- 1. Linux/Unix and variants
- 2. MAC OS
- 3. Solaris X86 and Sparc
- 4. HP UX
- 5. AIX
- 6. FreeBSD

You can keep adding more File system scans by click the Add more ... button

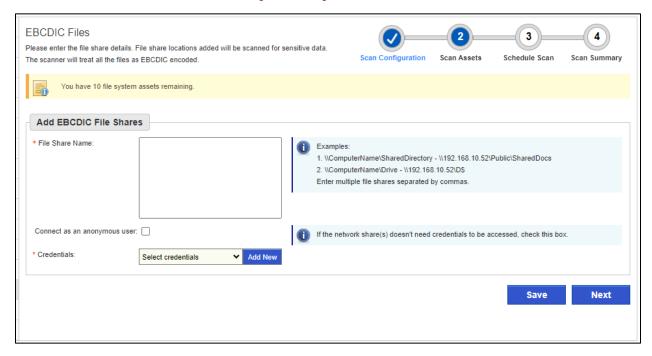








Mainframe file formatted files (EBCDIC)



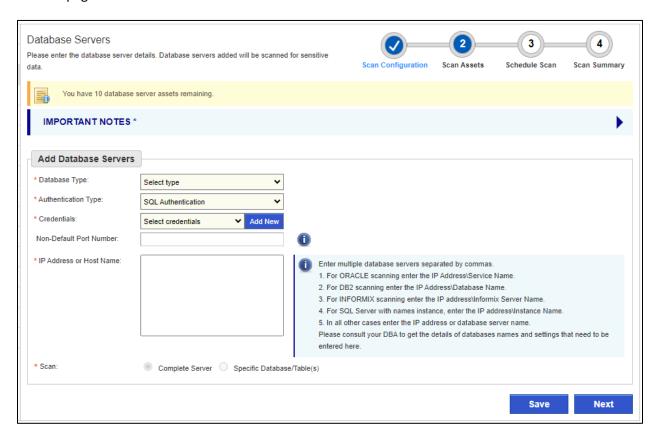
CDD cannot directly scan Mainframe computers, but a sample set of files exported from the mainframes in EBCDIC format can be placed on a file share and then CDD can scan those files.

When you are done (or if you don't want to add any file system scans, just click more targets on the Left navigation pane i.e. Database Servers or Scan Configuration Summary to add Databases scans or start the scan)





To add new database scans by entering the relevant details on the page. Please follow the instructions on each page for details.



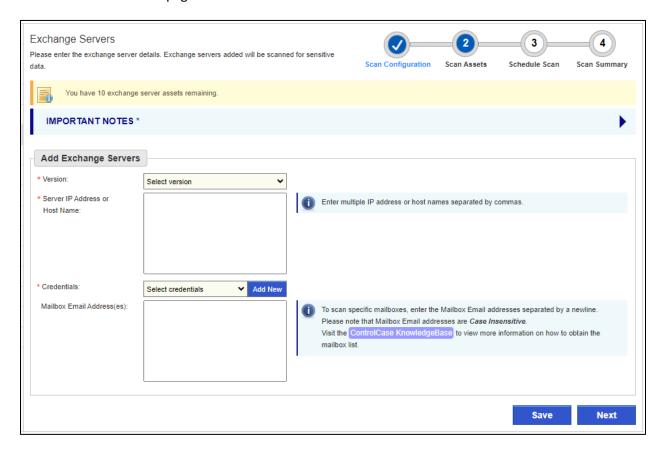
You can keep adding more Database scans by click the "Add more Databases" button, when you are done (or if you don't want to scan any databases, just click the Scan Configuration Summary to start the scan)





Microsoft Exchange Server Scans

To add a new Microsoft Exchange Server scan by entering the relevant details on the page. Please follow the instructions on each page for details.





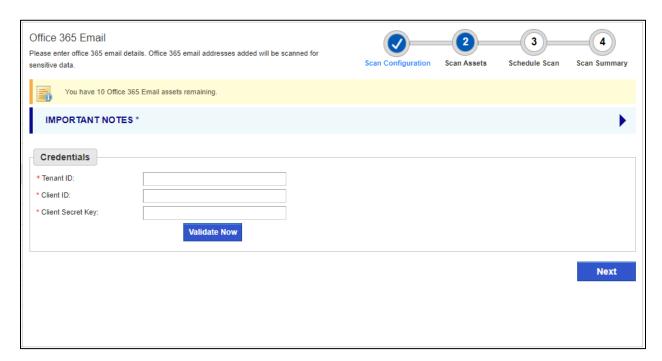


Due to the hosted nature of the Office 365 on Microsoft's servers, there are some limitations in the way the scans can occur.

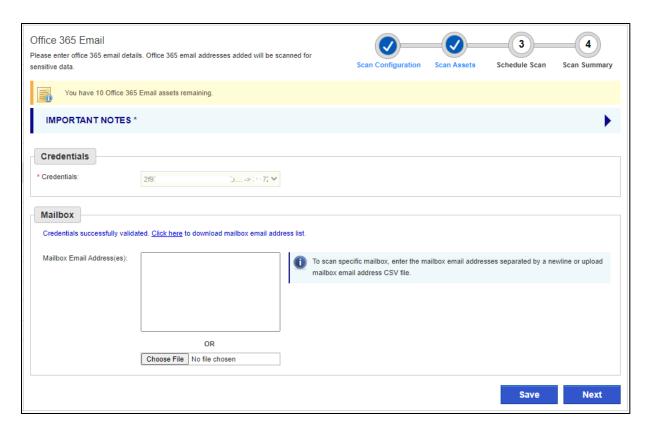
We are unable to scan all mailboxes for all attachments and all sizes because that is not allowed by Microsoft. There are also throttling limits placed by Microsoft which prevent the scanning process.

We have to use a sampling based approach for mailboxes and emails and those settings can be configured in the Settings area.

Office 365 Email

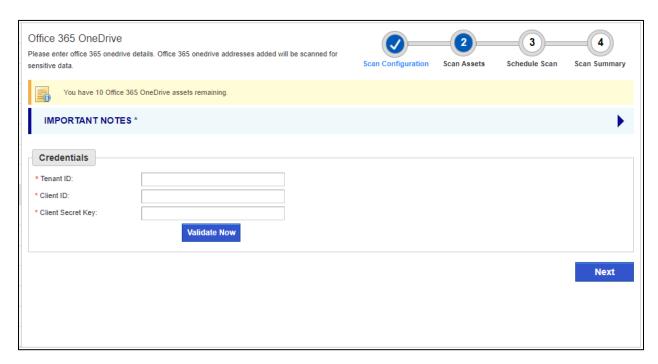


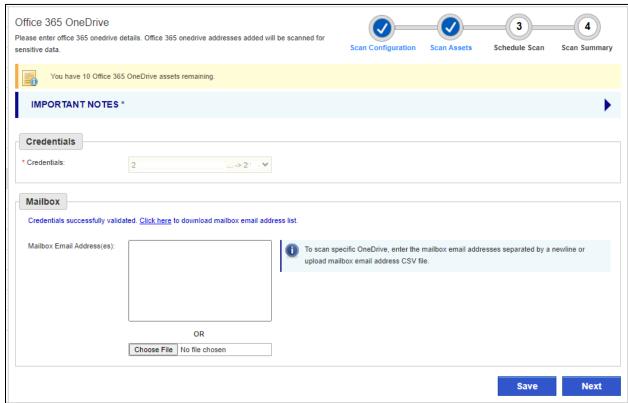






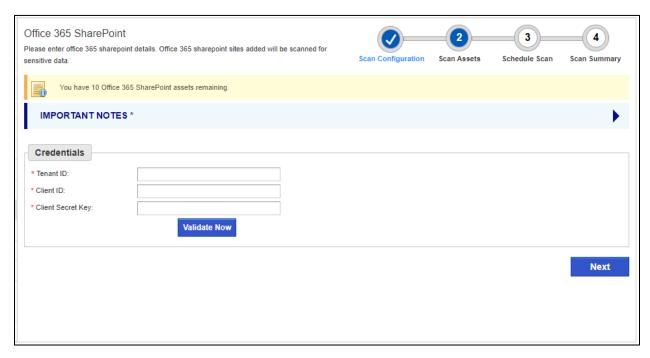
Office 365 OneDrive

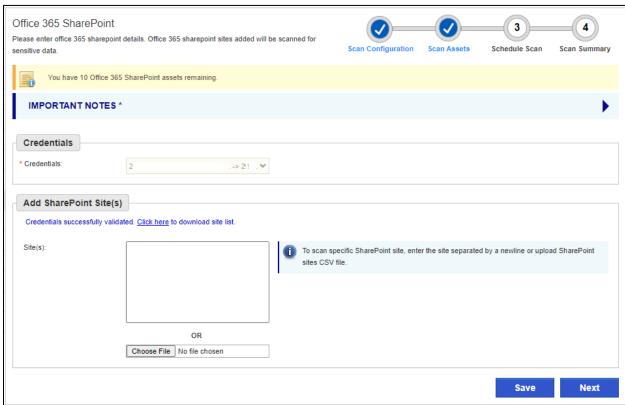






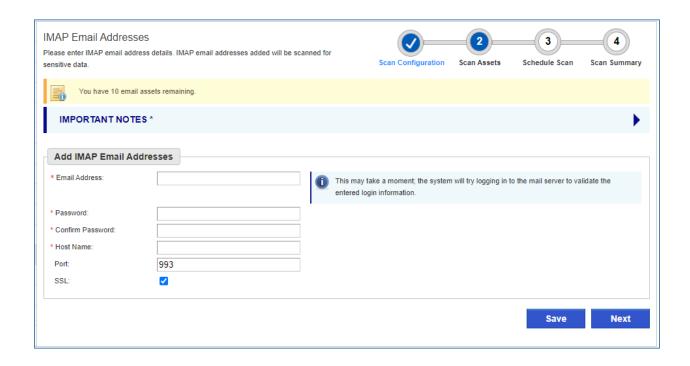
Office 365 SharePoint







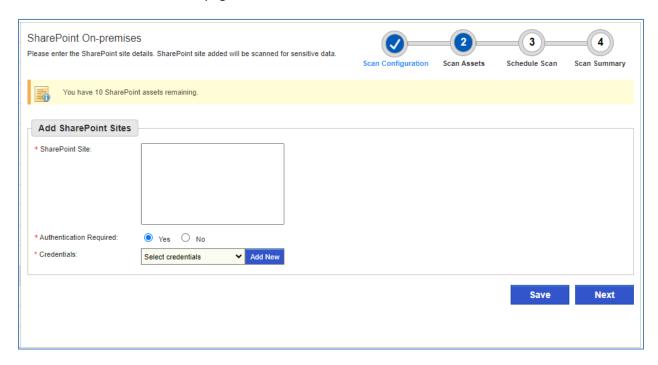






Microsoft SharePoint scans (On-premise)

To add a new Microsoft SharePoint Server scan by entering the relevant details on the page. Please follow the instructions on each page for details.



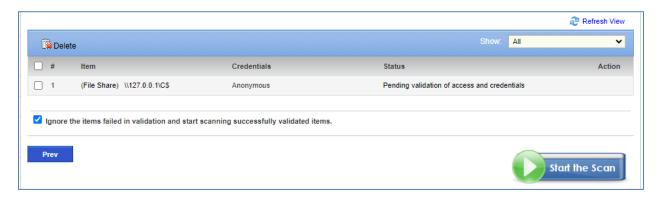




Start the scan

Finally, once you have added all the targets (File Systems, Databases etc. that need to be scanned), click the "Start the Scan" button. We will then verify the network access and credentials to these targets.

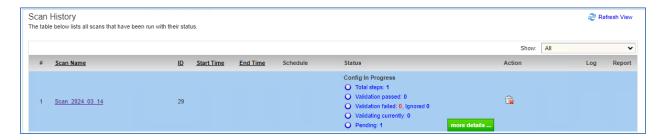
Depending upon the size of the scan this may take a few minutes.







The progress of the scan can be seen on the next page or by clicking the SCAN HISTORY tab



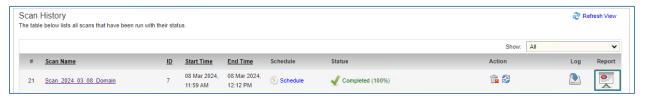
Additional details can be seen by clicking the MORE DETAILS... button







Once the scan is completed, the results can be seen from the SCAN HISTORY tab or through the DASHBOARD tab



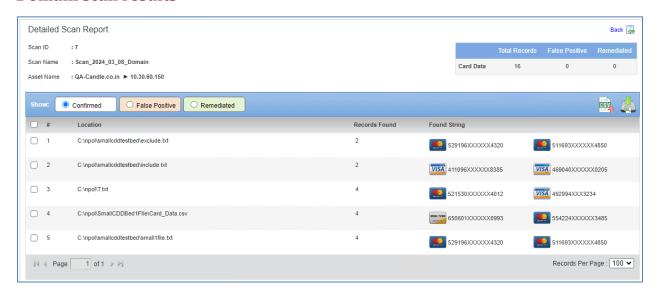




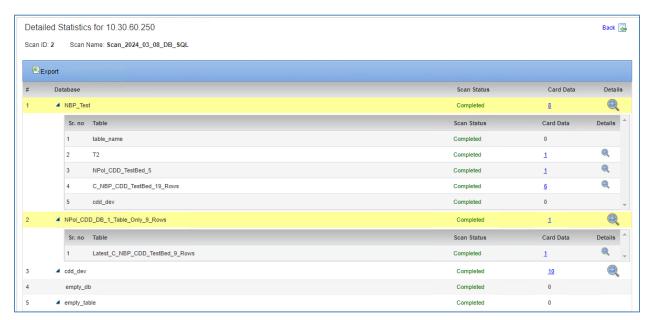
You can click the details icons to see additional details or download the results in a CSV file



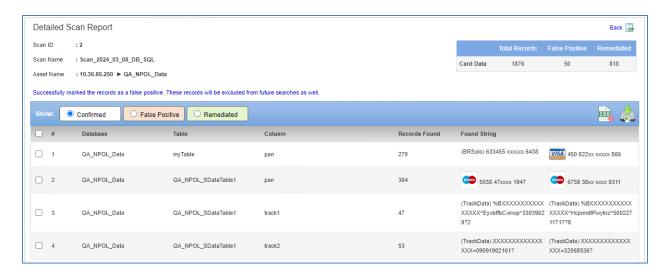
Domain scan results



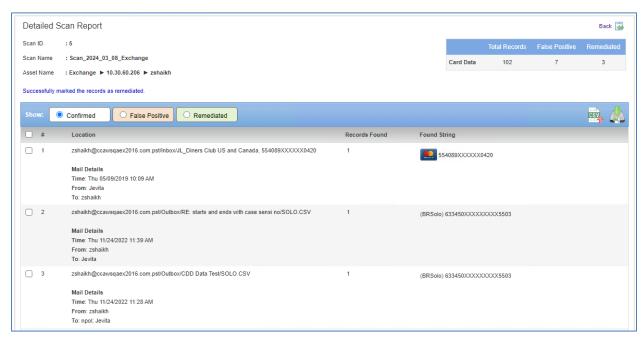
Database scan results







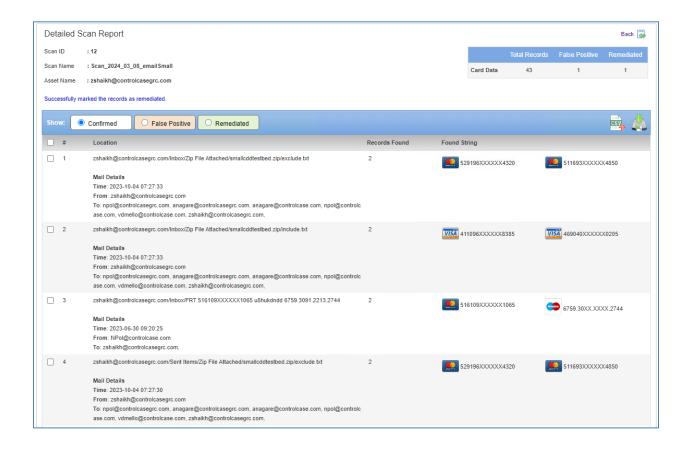
MS Exchange scan results





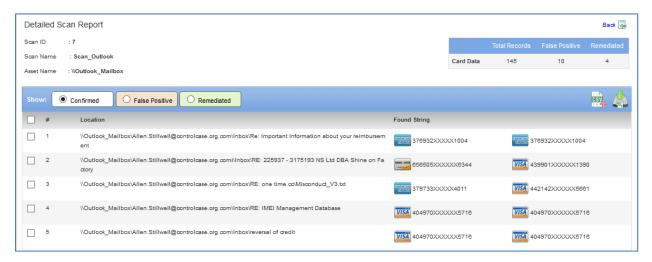
Office 365 scan results







Outlook PST file scan results







For successful scans please ensure the following:

PLEASE BE PATIENT

Scanning files and databases over a network does take time because we scan a significant amount of data character by character and the whole process comprises of multiple steps. Please allow the scans to finish rather than terminate them and start over. More information about the speed of scans can be

found at Whitps://help.controlcase.com/kb/controlcase-data-discovery-performance-statistics/

FILE SCANS

- 1. For Domain level scans (i.e. scan an entire domain from our scanner) we need an account that has "Administrator" level privileges on target machine. We will need the domain name, username and password
- 2. For File Share/UNC scans (i.e. to scan only some computers and not the whole domain, or servers that are not part of a domain), we need an account that has local administrator privileges. Again we will need the server name, username and password
- 3. Windows File Sharing and Network Discovery needs to be enabled on both the scanner and target machine
- 4. The scanner machine AND targets being scanned need to have the ADMIN\$, C\$, D\$ etc enabled
- 5. For scanning MAC OS, SSH needs to be enabled on the MAC (System Preferences -> Sharing -Remote Login setting needs to be On). The scanning user must also have read, write and execute permission on /tmp directory

DATABASE SCANS

- 1. For SQL Server scans, we will need the credentials (username, password) for an account that has admin/sa level access to the database (In production, we can tweak and lower the access rights needed)
- 2. For Oracle scans, it is best to have an Oracle DBA available to provide you the correct configuration settings to scan the database (including but not limited to this names files etc). Please verify that you have the SQL Plus configuration working and you can connect to the database you are trying to scan through SQL Plus first
- 3. For Sybase scans, please verify that your Sybase client is working and you can connect to the database using the Sybase client before you use CDD to scan the database. Again it is best to have a DBA assist you in this process

More information on permissions, firewall ports, protocols etc. required by CDD can be found at https://help.controlcase.com/kb/cddsettings/







TROUBLESHOOTING FAILED SCANS

File Scan Failed? Here are the most common causes:

- 1. The scanner should be able to connect to the machines it is scanning (targets) using regular Windows networking. Please ensure that this access is possible at the TCP/IP and NetBIOS levels before we attempt scanning these machines with a scanner.
 - A good way to test this is to type the target machine name \\\target_machine_name\ADMIN\$ in the Windows Run box. If that connects with the provided credentials, we will be able to scan the machine.
- 2. An antivirus/antimalware/application whitelisting or HIDS program on the target is not letting our scan process execute. Please verify that such programs are not interfering with our execution.



Known Issues

- Special characters such as " `-+ \/#\$~ " etc. in Database object names, Any Passwords, Machine names, File Share Paths may result in failed scans.
- The UI layout becomes distorted if Internet Explorer's "compatibility mode" is enabled. The supported browsers are limited to Edge, Chrome, and Mozilla Firefox.





More and latest support articles, tips and troubleshooting information can be found in the ControlCase Knowledge Base at

https://help.controlcase.com/kb/category/cdd/

OR

Contact ControlCase support at https://www.controlcase.com/contact-us/