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## Description

This dataset contains 5,000 examples of documents created with a random string extension. This is a pseudo file extension generated when files are encrypted using the MAZE Ransomware strain. Files encrypted using this ransomware strain can generate files with different extensions. This data set forms part of a much larger mixed file data set, called NapierOne, created by the School of Computing at Edinburgh Napier University in 2021. When using this dataset attribution should be given to Edinburgh Napier University as well as following the Open Government attribution guidelines. Details of which appear in the License section below. All files in the dataset have been validated to be of the correct format, having the correct extension and magic numbers where appropriate.

The files have also been scanned for viruses using Windows Defender© at the following level:

Scan Component	Component Version
Antimalware Client Version	4.18.2101.9
Engine Version	1.1.17800.5
Antivirus Version	1.331.1067.0
Anti-spyware Version	1.331.1067.0

All files in this data subset have also been submitted to [www.virustotal.com](http://www.virustotal.com) to confirm that the files donot contain malware.

## Creation

To populate this dataset, document files were collected from the following NapierOne datasets:

- DOC
- DOCX
- PDF
- PPT
- PPTX
- JPEG
- XLS
- XLSX

These collected files were then placed on an isolated machine and the following ransomware was executed.

MAZE with the hash value c2ab289cbd2573572c39cac3f234d77fdf769e48a1715a14feddaea8ae9d9702

The same source files were used with all the ransomware strain data subsets. The files in this data set retain the original sequence number for the file that was originally encrypted. This then allows the pre encrypted and encrypted files to be compared.

`<sequence-number>-<original-extension>-<extra-information>.<extension>`

Where:

File name fragment	Description
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<b>File name fragment</b>	<b>Description</b>
<sequence-number>	is a unique number within this dataset. Files derived from this MAZE encrypted files dataset, for example the MAZE encrypted files-NOMAGIC and MAZE encrypted files-PASSWORD datasets, will retain the same sequence number across all datasets. This facilitates the easy identification of related files between related datasets.
<original-extension>	is the original extension that the file had, indicating the format of the file. Some datasets contain files, where the actual extension doesnot reflect the actual format of the original file. This especially relates to files that have been encrypted by malware.
<-extra-information>	is a placeholder in the file name that can be used to provided optional additional information relating to the file. For example if it is password protected.
<extension>	is the extension of the file name. Normally the characters after the '.' in a file name. The extension is normally used to identify the content and format of the file.

An example of a file name could be: 0001-docx.docx.OVF1GDZ. This represents a MAZE encrypted example of the original NapierOne document 0001-docx.docx




A mapping of the original file name to the new dataset file name is held by the researchers and is available on request.

Related ransomware data subsets that used the same source files, prior to encryption/execution are:

Dataset	Dataset description
DHARMA	A dataset containing examples of files encrypted using the Dharma ransomware strain.
MAZE	A dataset containing examples of files encrypted using the Maze ransomware strain.
NETWALKER	A dataset containing examples of files encrypted using the Netwalker ransomware strain.
NOTPETYA	A dataset containing examples of files encrypted using the NotPetya ransomware strain.
PHOBOS	A dataset containing examples of files encrypted using the Phobos ransomware strain.
RYUK	A dataset containing examples of files encrypted using the Dharma ransomware strain.
SODINOKIBI	A dataset containing examples of files encrypted using the Sodinokibi ransomware strain.

## Information

If you require further information, then please feel free to contact the developers below:

Researcher	Contact
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## Related Data Sets

Datasets that share the same sources as the dataset described here.

Dataset	Dataset description
NOTPETYA	A dataset containing examples of files encrypted using the NotPetya ransomware strain.
SODINOKIBI	A dataset containing examples of files encrypted using the Sodinokibi ransomware strain.
MAZE	A dataset containing examples of files encrypted using the Maze ransomware strain.
PHOBOS	A dataset containing examples of files encrypted using the Phobos ransomware strain.
NETWALKER	A dataset containing examples of files encrypted using the Netwalker ransomware strain.
DHARMA	A dataset containing examples of files encrypted using the Dharma ransomware strain.
RYUK	A dataset containing examples of files encrypted using the Dharma ransomware strain.
DOC	A dataset containing renamed legacy versions of Microsoft Word document files found on the investigated websites.
DOCX	A dataset containing renamed modern versions of Microsoft Word document files found on the
JPG	A dataset containing examples of images in the JPG format found on the investigated websites.
PDF	A dataset containing files found on the investigated websites that were in the Portable Document Format (PDF)
PPT	A dataset containing renamed legacy versions of Microsoft Powerpoint document files found on the investigated websites.



<b>Dataset</b>	<b>Dataset description</b>
	A dataset containing renamed modern versions of Microsoft Powerpoint document files found on the investigated websites.
XLS	A dataset containing renamed legacy versions of Microsoft Excel document files found on the investigated websites.
XLSX	A dataset containing renamed modern versions of Microsoft Excel document files found on the investigated websites.

## Provenance

The original files contained in this dataset were gathered from the following U.K. government domains and websites between January and March 2021.

### Websites Accessed

[acaf.food.gov.uk](http://acaf.food.gov.uk)  
[acmsf.food.gov.uk](http://acmsf.food.gov.uk)  
[acnfp.food.gov.uk](http://acnfp.food.gov.uk)  
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[www.cafcass.gov.uk](http://www.cafcass.gov.uk)  
[www.cardiff.gov.uk](http://www.cardiff.gov.uk)  
[careers.dwp.gov.uk](http://careers.dwp.gov.uk)  
[www.castlepoint.gov.uk](http://www.castlepoint.gov.uk)  
[www.cerc.gov.uk](http://www.cerc.gov.uk)  
[census.gov.uk](http://census.gov.uk)  
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[vehicleenquiry.service.gov.uk](http://vehicleenquiry.service.gov.uk)  
[www.wigan.gov.uk](http://www.wigan.gov.uk)  
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[www.ybtj.justice.gov.uk](http://www.ybtj.justice.gov.uk)  
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## Open Government License Agreement

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## Open Government Licence

for public sector information

<http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

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If the Information Provider does not provide a specific attribution statement, you must use the following text:

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If elements of this MAZE encrypted files dataset are used then the correct attribution must also be given.

# Dataset Contents

Documentation created at 16:14 on June 28, 2021