

Access and Use Statistics and FAIR metrics on Metabolomics Workbench (MW)

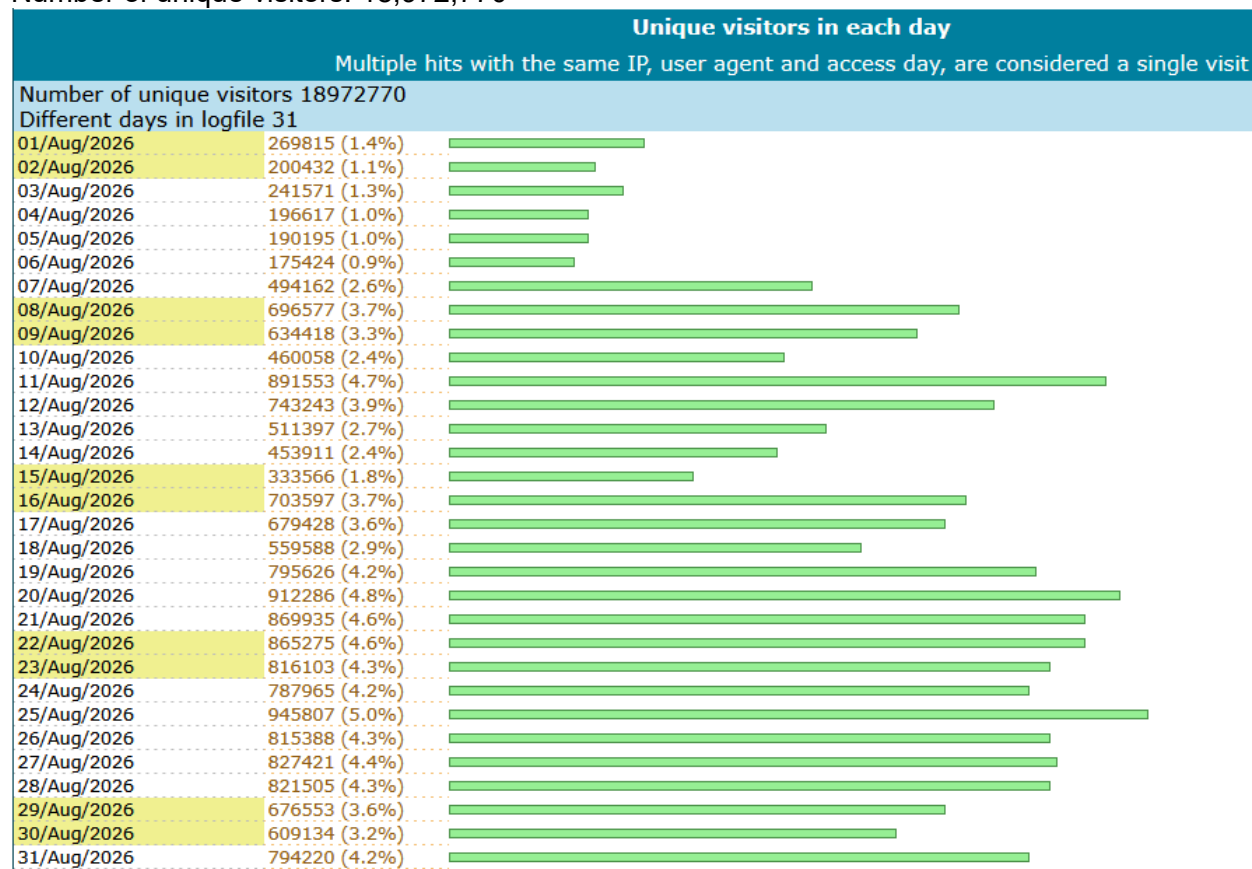
Duration: August 2026, unless indicated otherwise

Approach: We used both custom analysis of apache logs and Visitors tool (<http://www.hping.org/visitors/>) on combined access_log and ssl_access_log. vsftpd log was analyzed separately.

Access and use statistics are based on analysis of the log over about one month (August 2026, unless indicated otherwise). Access by web crawlers, bots, etc., has been excluded from the beginning of the analysis (see IP Exclusion List 1 at the end).

Overall access to the MW website

Number of unique visitors: 18,972,770

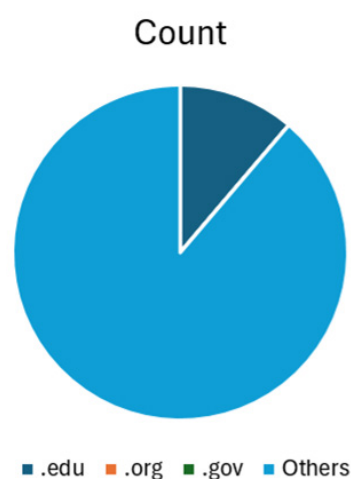


Country-based access statistics

From the IP addresses, hostname and their geographical location (country) is identified and summarized. This is after excluding additional IP addresses (in R script) with 'bot', 'spider', etc., in their hostnames (see IP Exclusion List 2 at the end): top 30 countries:

Country_short	Country_long	Count
US	United States of America	5990464
CH	Switzerland	1147084
CN	China	1133008
BD	Bangladesh	613197
SG	Singapore	468483
JP	Japan	465710
NL	Netherlands	361060
DE	Germany	288316
GB	United Kingdom of Great Britain and Northern Ireland	278796
NZ	New Zealand	263647
HK	Hong Kong	262660
IN	India	152642
-	-	132882
TR	Turkey	107906
TW	Taiwan (Province of China)	86781
FR	France	67552
ES	Spain	48636
IT	Italy	45974
RU	Russian Federation	39310
VN	Viet Nam	33491
BR	Brazil	30319
LV	Latvia	28661
KR	Korea (Republic of)	21457
AE	United Arab Emirates	21336
CL	Chile	21193
NP	Nepal	19127
DK	Denmark	17181
IR	Iran (Islamic Republic of)	15037
MY	Malaysia	14496
ID	Indonesia	14341

Category	Count	Percent
.edu	1384373	11.220
.org	1408	0.011
.gov	174	0.001
Others	10952013	88.767

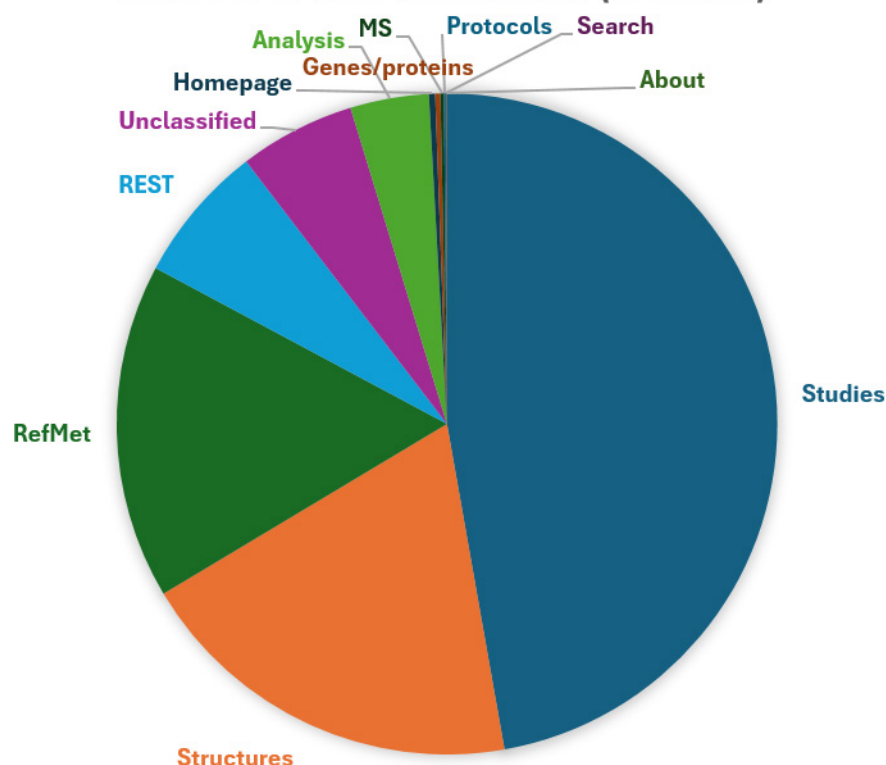


Resource types (Major categories)

Category	Aug 2026 Web Statistics (31 days)	Hits per day
Studies	17585168	567263
Structures	7152286	230719
RefMet	6107899	197029
REST	2528174	81554
Unclassified	2115670	68247
Analysis	1431959	46192
Homepage	112994	3645
Genes/proteins	93171	3006
MS	64812	2091

Protocols	32101	1036
Search	12278	396
About	10002	323

AUG 2026 WEB STATISTICS (31 DAYS)



Top page hits over August 2026: Top 30 hits

Type of page	End-point	Count
Studies	/data/DRCCMetadata.php	15343745
Statistical analysis	/data/metabolite_id_show.php	3603529
REFMET	/databases/refmet/refmet.php	2817908
REFMET	/databases/refmet/refmet_tableonlyM.php	2297215
General	/data/png_display_inline2.php	2045611
REST	/rest/study	1757299
Structure data	/data/StructureData.php	1063803
REFMET	/databases/refmet/refmet_details.php	967001
Archive	/data/show_archive_contents_json.php	801253
Statistical analysis	/data/metstat_studies.php	507042
Pathways	/data/show_h_pathway_metabolites_reactome.php	465388
REFMET	/rest/refmet	461045
REFMET	/data/pca/refmet_platform.php	354874

REFMET	/data/pca/refmet_species.php	336508
REFMET	/data/pca/refmet_chrom.php	312908
Pathways	/data/show_h_pathway_metabolites2.php	290800
REFMET	/data/pca/refmet_source.php	273253
Studies	/data/showfile.php	234030
Studies	/data/study_textformat_view.php	215227
MASSBANK	/data/massbank_eu.php	165371
REST	/rest/protein	158855
Pathways	/data/show_h_pathway_metabolites.php	150816
REST	/rest/compound	141070
Metabolites	/data/show_metabolites_by_study.php	137886
General	/homepage	112994
Structure data	/data/molfile_show.php	105155
Study search	/data/show_studies_by_pubchem.php	94754
REFMET	/databases/refmet/refmet_tanimoto.php	90277
Metabolite-Gene	/databases/proteome/MGP_detail.php	86916
Studies	/data/study_textformat_list.php	83731

OS and browsers

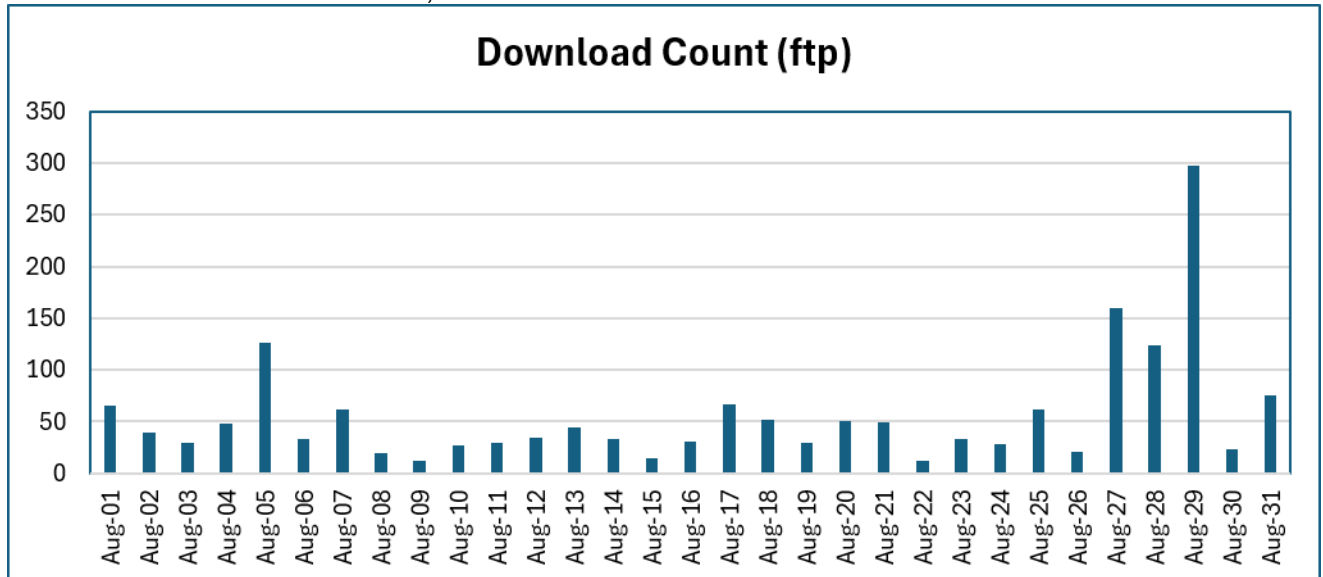
(unknown may include REST-based visits or calls from other automated scripts)

Operating Systems		
Operating Systems by visits		
Different operating systems listed 8		
Unknown	18863679 (99.4%)	
Macintosh	73434 (0.4%)	
Windows	28343 (0.1%)	
Linux	7322 (0.0%)	
OpenBSD	2 (0.0%)	
SunOS	1 (0.0%)	
NetBSD	1 (0.0%)	
FreeBSD	1 (0.0%)	
Browsers		
Browsers used by visits		
Different browsers listed 12		
Unknown	18854590 (99.4%)	
Safari	111315 (0.6%)	
Firefox	6127 (0.0%)	
Other Mozilla based	592 (0.0%)	
Explorer unknown version	94 (0.0%)	
Opera	42 (0.0%)	
GoogleBot	12 (0.0%)	
W3M	5 (0.0%)	
Wget	2 (0.0%)	
Explorer 6.x	2 (0.0%)	
MSNbot	1 (0.0%)	
Lynx	1 (0.0%)	

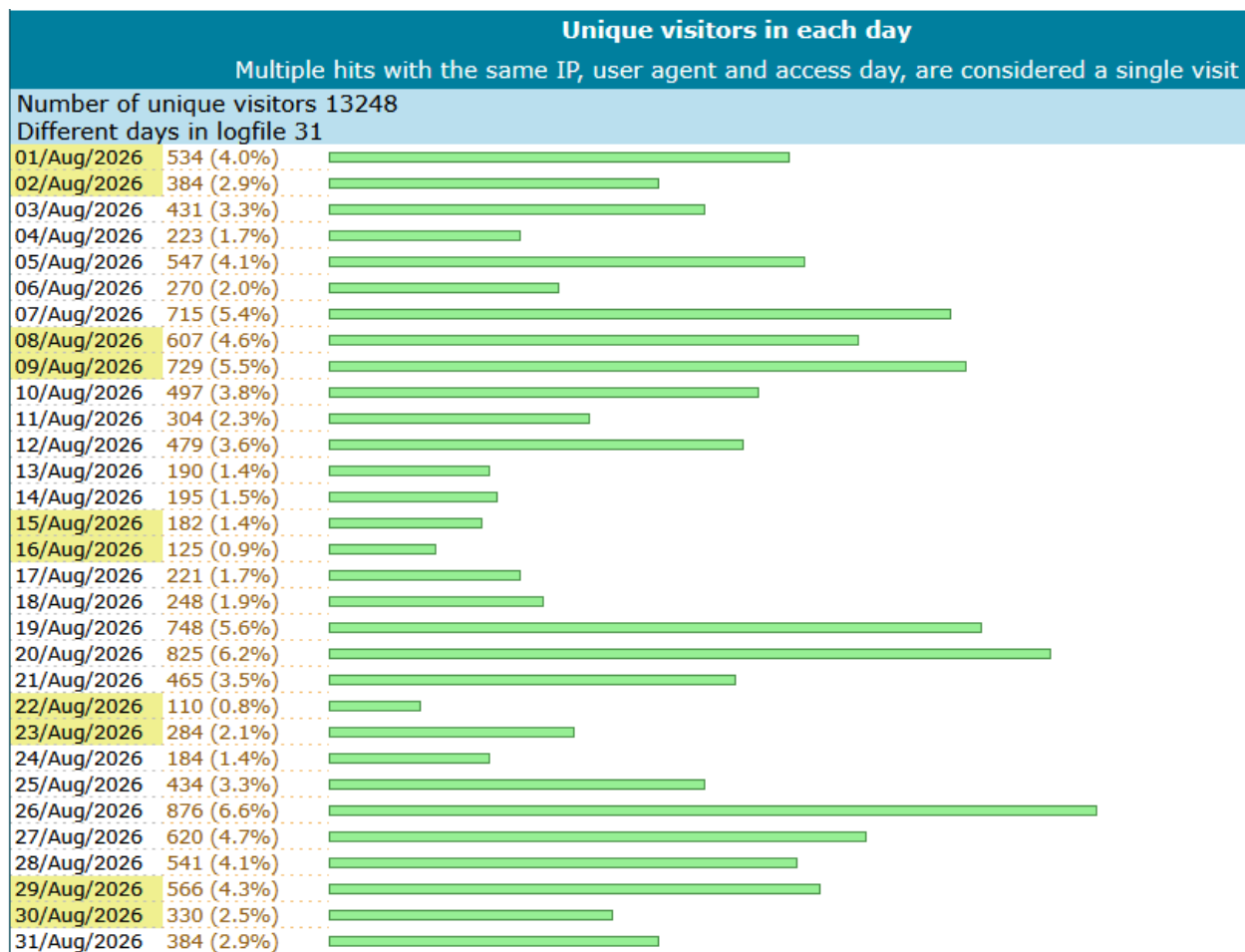
Download statistics

Amount of total data downloaded (http + ftp): about 89 TB

FTP-based downloads: Total 1,733



Downloads through the website (http/https): Total 13,248 (Generated using “Visitors”)



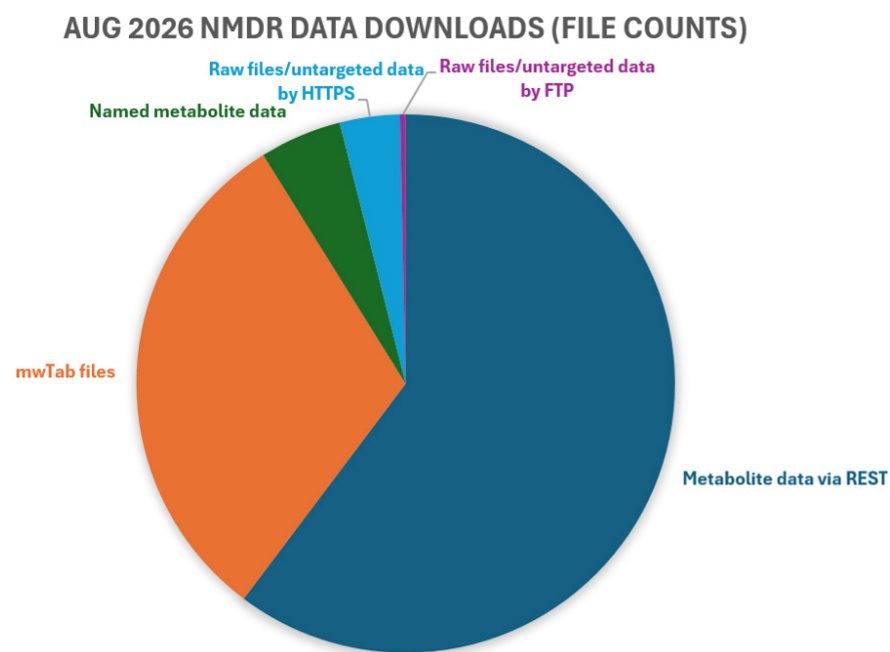
Top 20 downloads requested:

Requested pages		
Page requests ordered by hits		
Different pages requested 4412		
1)	42	/studydownload/ST003350_Supplementary_Table3.xlsx
2)	39	/studydownload/ST000604_AN000924_Results.txt
3)	38	/studydownload/ST000604_AN000925_Results.txt
4)	37	/studydownload/ST003030_AN004967_Results.txt
5)	36	/studydownload/ST003159_AN005181_Results.txt
6)	36	/studydownload/ST000290_AN000463_Results.txt
7)	34	/studydownload/ST003439_AN005653_Results.txt
8)	33	/studydownload/ST003399_AN005579_Results.txt
9)	31	/studydownload/ST000886_AN001444_Results.txt
10)	31	/studydownload/ST002855_AN004677_Results.txt
11)	30	/studydownload/ST001000_AN001881_Results.txt
12)	29	/studydownload/ST003294_AN005397_Results.txt
13)	28	/studydownload/ST001018_AN001663_Results.txt
14)	27	/studydownload/ST003159_AN005182_Results.txt
15)	27	/studydownload/ST000923_AN001513_Results.txt
16)	26	/studydownload/ST003994_AN006583_Results.txt
17)	26	/studydownload/ST001192_AN001985_Results.txt
18)	25	/studydownload/ST001018_AN001665_Results.txt
19)	25	/studydownload/ST003439_AN005670_Results.txt
20)	25	/studydownload/ST004767_AN008061_Results.txt

Mode of download (August 2026)

Unlike the filtering for other statistics, these are based on the entire log for August 2026 (without excluding bots, spiders, etc).

Type	Aug 2026 NMDR Data downloads (file counts)
Metabolite data via REST	420939
mwTab files	215598
Named metabolite data	34333
Raw files/untargeted data by HTTPS	25248
Raw files/untargeted data by FTP	2351



<https://github.com/metabolomicsworkbench>
stats 2026-03-04 to 2026-09-04

GitHub Traffic — Combined Summary

metabolomicsworkbench · 4 repositories · 6-month period: Mar 4 – Sep 4, 2026

Overview — All Repositories

Repository	Total Views	Unique Visitors	Total Clones	Unique Cloners
jupyter-notebooks	93	69	75	75
MetENP	694	320	286	173
MetENPAppyter	39	33	42	34
MetGENE	155	59	167	123
All repos	981	481	570	405

jupyter-notebooks

Month	Views	Unique Visitors	Clones	Unique Cloners
2026-03	19	15	5	5
2026-04	11	8	16	16
2026-05	10	5	11	11
2026-06	8	7	21	21
2026-07	23	18	11	11
2026-08	22	16	11	11
Total	93	69	75	75

MetENP

Month	Views	Unique Visitors	Clones	Unique Cloners
2026-03	69	44	11	10
2026-04	266	80	188	96
2026-05	69	40	13	13
2026-06	84	51	43	24
2026-07	98	55	15	14
2026-08	108	50	16	16
Total	694	320	286	173

MetENPAppyter

Month	Views	Unique Visitors	Clones	Unique Cloners
2026-03	8	8	12	4
2026-04	6	4	11	11
2026-05	7	7	6	6
2026-06	4	4	4	4
2026-07	9	6	5	5
2026-08	5	4	4	4
Total	39	33	42	34

MetGENE

Month	Views	Unique Visitors	Clones	Unique Cloners
2026-03	31	12	15	13
2026-04	16	9	31	31
2026-05	6	5	7	7
2026-06	7	6	11	8
2026-07	93	25	86	53
2026-08	2	2	17	11
Total	155	59	167	123

The number of accesses to the Jupyter/Binder entry page at

<https://www.metabolomicsworkbench.org/data/AnalyzeUsingJupyterNotebooks.php> :

The number of hits to the entry page is low- about 20 per week. This doesn't necessarily mean that users are clicking on the external Binder/Github links on this page, though.

FAIRShake metrics

Precalculated stats on MW: <https://fairshake.cloud/project/85/assessments/>

Project Assessments (6697)

Assessment			Metrics								
Target	Rubric		Globally unique identifier	Persistent identifier	Machine-readable metadata	Standardized metadata	Resource identifier in metadata	Resource discovery through web search	Open, Free, Standardized Access protocol	Protocol to access restricted content	Persistence of resource and metadata
Fatb Induction Experiment (FatBIE)	FAIR metrics by fairmetrics.org		no (0.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)		no (0.00)
Intestinal Samples II pre/post transplantation	FAIR metrics by fairmetrics.org		no (0.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)		no (0.00)
Metabolomic analysis of mouse embryonic fibroblasts, embryonic stem cells, and induced pluripotent stem cells	FAIR metrics by fairmetrics.org		no (0.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)		no (0.00)

Apparently, the FAIRshake tool that generated the above statistics is not fully mature and requires manual curation. MW uses document object identifiers (DOI) for the projects, which is included (referred to as Persistent Identifier) in the metadata submitted to the CFDE portal. Through the DOI, one can access all the publicly available data on the MW website.

https://fairshake.cloud/digital_object/6578/assessments/

Tags: NIHcommonfund

Digital Object Assessments (1)

Assessment			Metrics								
Rubric	Project		The repository provides contact information for staff to enable users with questions or suggestions to interact with repository experts.	Tools that can be used to analyze each dataset are listed on the corresponding dataset pages.	The repository maintains licenses to manage data access and use.	The repository hosts data and metadata according to a set of defined criteria to ensure that the resources provided are consistent with the intent of the repository.	The repository provides documentation for each resource to permit its complete and accurate citation.	A description of the methods used to acquire the data is provided.	Version information is provided for each resource, where available.	The structure of the repository permits efficient discovery of data and metadata by end users.	The repository uses a standard protocol to permit access by users.
The FAIRshake repository rubric	NIH Data Sharing Repositories		yes (1.00)	yes (1.00)	no (0.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)	yes (1.00)

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IP Exclusion List 1

As php code:

```
$blocked_ip=array( '132.249', '3.91', '5.9', '34.238', '35.174', '40.77', '46.229', '46.4', '54.209',  
'66.249', '69.3', '78.46', '91.137', '92.22', '95.216', '95.91', '106.120', '136.243', '144.76',  
'148.251', '157.55', '162.21', '173.234', '178.255', '178.63', '180.76', '185.25', '192.151', '207.46',  
'213.174');
```

```
$blocked_ip3 = array('100.26.127', '103.131.71', '104.245.145', '110.249.201', '110.249.202',  
'110.93.150', '111.225.148', '111.225.149',
```

```
'114.111.32', '114.119.128', '114.119.129', '114.119.130', '114.119.131', '114.119.132',  
'114.119.133', '114.119.134', '114.119.135',
```

```
'114.119.136', '114.119.137', '114.119.138', '114.119.139', '114.119.140', '114.119.141',  
'114.119.142', '114.119.143', '114.119.144',
```

```
'114.119.145', '114.119.146', '114.119.147', '114.119.148', '114.119.149', '114.119.150',  
'114.119.151', '114.119.152', '114.119.153', '114.119.154', '114.119.155',
```

```
'114.119.156', '114.119.157', '114.119.158', '114.119.159', '114.119.160', '114.119.161',  
'114.119.162', '114.119.163', '114.119.165', '114.119.166', '114.119.167',
```

```
'116.179.32', '116.179.37', '118.184.177', '123.125.109', '123.126.68', '123.183.224',  
'125.209.235', '128.127.105', '129.206.45', '13.66.139', '135.125.216', '135.181.137',
```

```
'135.181.138', '135.181.140', '135.181.62', '135.181.74', '141.8.142', '144.217.135', '147.162.3',  
'147.162.36', '147.92.153', '149.154.161', '149.155.131', '149.56.150',
```

```
'149.56.160', '154.51.131', '154.54.249', '157.90.177', '157.90.182', '157.90.209', '159.138.102',  
'162.19.100', '162.19.101', '168.119.64', '168.119.65', '168.119.68',
```

```
'17.121.112', '17.121.113', '17.121.114', '17.121.115', '17.22.237', '17.22.245', '17.22.253',  
'17.241.219', '17.241.227', '17.241.75', '17.246.15', '17.246.19', '17.246.23',
```

```
'179.190.203', '184.75.211', '185.101.32', '185.138.241', '185.191.171', '185.54.230',  
'189.124.192', '191.96.106', '194.187.169', '194.187.171', '194.9.191', '195.154.122',
```

```
'195.154.123', '195.154.126', '195.191.219', '195.201.106', '198.134.108', '198.134.109',  
'198.251.73', '198.98.183', '199.47.82', '20.15.133', '204.15.110', '207.241.229',
```

```
'207.241.231', '207.241.233', '207.241.235', '207.241.236', '211.249.46', '213.180.203',  
'216.244.66', '220.181.108', '23.22.35', '3.224.220', '31.3.152', '31.3.153',
```

```
'35.196.132', '35.227.62', '35.237.4', '37.46.121', '49.7.20', '49.7.21', '5.102.173', '5.133.192',  
'5.255.231', '5.255.253', '5.45.207', '5.62.16', '5.62.20', '5.62.34',
```

```
'5.62.41', '5.62.43', '5.62.47', '5.62.49', '5.62.56', '5.62.57', '5.62.58', '5.62.59', '5.62.60', '5.62.61',  
'5.62.62', '5.62.63', '50.21.188', '51.210.144', '52.167.144',
```

```
'52.70.240', '54.161.41', '54.236.1', '54.236.121', '54.36.148', '54.36.149', '58.250.125',  
'61.135.159', '65.108.103', '65.108.41', '65.108.6', '65.108.64', '65.108.99',
```

'65.21.231', '65.21.35', '69.160.160', '74.208.2', '76.164.224', '77.234.43', '77.234.44', '77.75.72',
'77.75.73', '77.75.76', '77.75.77', '77.75.78', '77.75.79', '77.88.5',
'79.142.76', '81.17.57', '85.208.96', '85.208.98', '85.31.186', '87.250.224', '91.143.80',
'91.219.212', '91.242.162', '93.158.161', '95.108.213', '95.142.112',
'95.142.121', '95.142.127', '95.217.72', '95.87.154', '193.62.192');

IP Exclusion List 2

As php code:

\$blocked_ip is as above in List 1.

```
$blocked_ip3 = array(
'223.109.255.182', '223.109.255.246', '223.109.255.217', '223.109.255.196', '223.109.255.229',
'223.109.255.222', '122.192.32.141', '122.192.32.183', '49.65.18.115', '122.192.32.137',
'122.192.32.69', '122.192.32.65', '153.35.209.8', '36.152.7.77', '122.192.32.18', '153.35.209.99',
'49.65.18.85', '36.152.7.73', '36.152.7.113', '153.35.209.18',
'36.152.7.36', '153.35.209.122', '122.192.32.61', '49.65.18.95', '153.35.209.46', '122.192.32.99',
'49.65.18.19', '49.65.18.96', '122.192.32.21', '49.65.18.56',
'122.192.32.168', '122.192.32.206', '49.65.18.7', '49.65.18.74', '122.192.32.20',
'122.192.32.150', '36.152.7.26', '122.192.32.98', '36.152.7.95', '49.65.18.76',
'153.35.209.69', '36.152.7.104', '122.192.32.249', '122.192.32.4', '49.65.18.17', '49.65.18.78',
'49.65.18.87', '36.152.7.59', '36.152.7.56', '122.192.32.151',
'153.35.209.62', '153.35.209.59', '122.192.32.14', '36.152.7.15', '49.65.18.21', '49.65.18.124',
'153.35.209.55', '122.192.32.19', '122.192.32.217', '36.152.7.35',
'36.152.7.55', '49.65.18.102', '122.192.32.110', '49.65.18.29', '153.35.209.74', '153.35.209.107',
'122.192.32.228', '36.152.7.81', '153.35.209.52', '122.192.32.215',
'153.35.209.110', '36.152.7.124', '49.65.18.111', '153.35.209.26', '49.65.18.22',
'122.192.32.106', '122.192.32.97', '36.152.7.39', '49.65.18.88', '49.65.18.3',
'122.192.32.92', '153.35.209.16', '49.65.18.123', '49.65.18.63', '153.35.209.6', '49.65.18.83',
'153.35.209.83', '49.65.18.84', '122.192.32.42', '36.152.7.72',
'122.192.32.55', '153.35.209.72', '49.65.18.67', '153.35.209.57', '49.65.18.37', '49.65.18.103',
'153.35.209.91', '49.65.18.97', '122.192.32.145', '36.152.7.31',
'153.35.209.51', '153.35.209.86', '36.152.7.32', '122.192.32.147', '153.35.209.101',
'153.35.209.90', '122.192.32.232', '122.192.32.2', '153.35.209.2', '122.192.32.142',
'153.35.209.124', '49.65.18.57', '122.192.32.6', '36.152.7.111', '49.65.18.119', '36.152.7.24',
'122.192.32.107', '153.35.209.9', '49.65.18.51', '36.152.7.65',
'153.35.209.71', '49.65.18.39', '49.65.18.65', '36.152.7.85', '49.65.18.86', '122.192.32.188',
'122.192.32.59', '122.192.32.136', '153.35.209.43', '36.152.7.116',
'36.152.7.70', '49.65.18.79', '49.65.18.9', '153.35.209.109', '153.35.209.84', '36.152.7.33',
'49.65.18.55', '122.192.32.87', '122.192.32.91', '49.65.18.92',
'122.192.32.115', '49.65.18.11', '122.192.32.233', '153.35.209.22', '49.65.18.93', '36.152.7.91',
'49.65.18.114', '49.65.18.4', '153.35.209.25', '153.35.209.70',
'122.192.32.111', '122.192.32.212', '122.192.32.116', '49.65.18.10', '49.65.18.80',
'153.35.209.111', '36.152.7.87', '49.65.18.15', '122.192.32.74', '153.35.209.41',
'153.35.209.48', '36.152.7.14', '49.65.18.117', '49.65.18.50', '122.192.32.185', '153.35.209.102',
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'112.86.225.228', '223.109.255.201', '223.109.255.227', '223.109.252.241', '112.86.225.211',
'223.109.255.230', '223.109.255.202', '180.102.110.232', '223.109.255.193', '180.102.110.217',
'112.86.225.117', '180.102.110.252', '180.102.110.247', '112.86.225.197', '180.102.110.196',
'223.109.255.214', '223.109.252.249', '180.102.110.200', '180.102.110.190', '121.229.156.101',
'180.102.110.193', '180.102.110.244', '223.109.255.186', '223.109.255.241', '112.86.225.76',
'223.109.255.177', '180.102.110.212', '223.109.255.250', '180.102.110.188', '112.86.225.23',
'180.102.110.203', '52.204.108.110'
);