Terms	legacy protocols B5:128
/ata/ahadaw	lockout bypass B5:138-40
/etc/shadow B3:68	management portals B5:108
AADSTS-50053 B5:136	OAuth Token B5:131
access control	password attacks B5:131-40
conditional B5:147	perms B5:166-72
entities B5:70	contributor B5:167
ACE B5:70	IAM document B5:168
ADCS	inheritance B5:169
ADDS B5:117	owner B5:167
ADFS Extranet Lockout	reader B5:167
admin hunting B1:63	plane
aes B5:22	control B5:159
amsi B4:56-60	data B5:159
bypasses B4:58-60	recon B5:120-29
AmsiScanBuffer B4:57	request throttle B5:125
annual reports B1:68	roles
application control B4:71	scope B5:116
ASNs B1:75	shell B5:108
asrep roast B5:104	smart lockout B5:136
assumed breach B2:68	synchronization B5:118
attack phases	user access admin B5:166
covering tracks B1:17	user enumeration B5:122-27
exploitation	backup servers B5:33
maintaining access B1:17	BGP B1:78
post-exploitation B1:17	browser B2:46
recon B1:17	browsers B2:33
scanning B1:17	c2 B2:72
authenticated proxy B2:89	C:/Windows/Panther B3:15-6
authentication	central auth server
central B5:144	certificate
FIDO2 B5:144	authority B5:46
LDAPS B5:144	internal B5:49
MFA B5:144	enrollment B5:82
autonomous systems numbers B1:75	service B5:46
AWS	signing request B5:46
api gateway B5:138	template B5:50
azure	access control B5:70
access control B5:109, 116	ESC1 B5:50-70
AD B5:111, 117	ESC4 B5:71-81
api manage B5:157	ESC8 B5:82-3
auth library B5:162	certificate transparency B1:79
authentication B5:111-8	chaining
automation B5:163	challenge-response
backup B5:157	Kerberos B3:99
blobs B5:157	LANMAN B3:63
compute B5:157	NTLMv1 B3:63
devops B5:157	NTLMv2 B3:65-6, 100-01
extensions B5:163	CIDR B1:78
external recon B5:121	cloud shell
federation B5:118	cmd.exe autorun B3:40
global admin B5:166	common subdomains B1:72
groups	competitive intel
management B5:158	conditional access policies B5:147
resource B5:158	cpassword
IAM B5:109	credential guard B4:44
identities B5:171	credential reuse
identity token B5:171	credential stuffing B2:9-10
infrastructure B5:157-9	3

crypt3 B3:58-66	install files
daisy-chaining B2:80	iso B2:101
data breaches B1:85	lnk-shortcuts B2:103
data dump forums B1:85	permissions
DCShadow B5:40	pilfering B2:115-6, 132
DCSync B5:38	searching B2:125, 132
dedicated systems B1:36	world-writeable B3:10
dhcpclient B2:131	zip B2:102
directory replication service remote B5:39	file-transfer B2:109-12
dirty cow	file/print sharing B4:42
document-reading apps B2:33	firewall B2:31, B2:131
documented permission	first-class citizen B5:144
domain	full-knowledge
admin B5:30, 35, B2:129	GetCredentialType B5:123-5
administration	global admin B5:166
cleanup B2:130	golden ticket
controllers plural B5:36	grant B5:155
DCShadow B5:40	group policy
DCSmadow	objects B3:17
groups B2:129	preferences
ntds file B5:33	guardrails B2:35, 80
persistence	hash
•	
privesc	formats
replication B5:38	LANMAN B3:60, 63 MD5 B3:69
skeleton key	
users	NT B3:61
DRSR B5:39	rounds
dynamic code generation B2:77	HKCU
dynamic data exchange	html application
env variable	hybrid auth B5:111
ephemeral shell B1:47	identity token B5:171
ESC	IdsLocked B5:136
1 B5:50-69	imds B5:170
4 B5:71-81	impacket
8 B5:82-3	kerberos
etypes	remote exec B4:35-7
evasion	secretsdump B4:34
amsi	syntax B4:35
application control	implant chaining B2:80
signature detection B4:64	infrastructure recon B1:71-81
static analysis B4:61	ingestors B3:30
tactics B4:52-69	inheritance B5:169
windows defender B4:65	initial access B2:6
execution plan B5:134	install from media B5:34
exploit B1:11	instance metadata service B5:170
unquoted paths B3:20	intrusion prevention B2:31
exploitation B2:26-8	ipsec B2:131
client-side B2:32-7	jitter B2:72
framework B2:41	job reqs B1:85
local privesc B2:38	JSON web token B5:115
payload delivery B2:36	junior testers B1:61
server-side B2:31	JWT B5:115
social engineering B2:34	kerberoasting B5:21
types B2:30	computer accounts B5:22
windows B2:45, 49-51	etypes B5:22
extended key usage B5:48	service accounts B5:22
Extranet Lockout B5:137	targets
file	kerberos

Lischke 2 08/2024

asrep roast B5:104	msbuild
asreq/asrep B5:8	MSOL B5:146
auth	NBT-NS
golden ticket	network sweep B1:94
impacket B4:33	ntds file
kdc	ntds.dit
kerberoasting B5:11 krbtgt account B5:30, 87-8, 94	relay
long-term keys B5.50, 87-8, 94	NTLMv1
overpass-the-hash	NTLMv2
pass-the-ticket B5:27-8	attacks
priv attribute cert B5:10	defense
service ticket B5:11, 13-6	NtProtectVirtualMemory
silver ticket B5:89	OAuth Token B5:131
spn B5:12, 18	Oauth2
stateless B5:95	access token B5:149, 152
tgsreq/tgsrep B5:11	claims B5:150
ticket reuse B4:12	code flow B5:144-54
ticket-granting ticket B5:10	flow types B5:155
kernel B3:8	JWT B5:149
kernel attacks B2:39	refresh token B5:152-4
keyrings B2:122	OAuthToken B5:126-7
LDAP B5:116	obfuscation B2:134
legacy authen B5:128	office
linux	dde B2:100
connections	macros
filesystem	OIDC B5:107
permissions	OpenID access token
LLMNR	claims
load balancing	Connect
local groups	JWT B5:149
lockout	refresh token
duration	opsec
observation window B2:16	organizational recon B1:67-9
threshold B2:16	os fingerprinting B1:94
login.microsoftonline B5:146	nmap B1:129
logon script B2:127	PAC B5:10, 13, 88
LSASS B4:41, 77, B5:103	parallel scans B1:121
managed identity	parent process spoofing B2:80
system assigned B5:171	pass-the-hash B4:41-9, B3:54
user assigned B5:171	mitigations B4:44
mangling B3:51	pass-through auth B5:118
mDNS B3:106	password
memory dumps B5:103	guessing B2:11-22
mergers & acquisitions B1:67	spraying B2:18
metasploit	password attacks
exploits	password hash synchronization B5:118
meterpreter	passwords
modules	cloud hardware B3:53 dictionaries B3:50
psexec B2:44-51	in linux B3:58-66
reliability B2:47	in windows
meterpreter	keystroke
microsoft	mangling B3:51
ADDS B5:117	reporting B3:56
authentication B5:116	salt
MSAL B5:162	sniffing B3:54, 100-01
	,

synced B3:49	proxies B3:113
payload delivery B2:36	http B5:140
payloads B2:97	ssh B5:139
PCI B1:61	psexec
penetration test	purple team B1:13
definition B1:15	race conditions B2:39
types B1:16	rc4 B5:22, 36
permissions B1:50	recon
persistence	ethics
cmd.exe autorun B3:40	infrastructure B1:71-81
domain/AD B5:32	internal PCI B1:61
HKCU B3:40	light-touch B1:62
scheduled task B3:42	organizational B1:67-9
services	user B1:82-9
startup folder B3:41	zero-touch B1:62
WMI events	red team B1:13
pgp B2:122	regional internet registries B1:78
phishing	registry B2:133
device code flow B5:162	registry keys B3:40
pivoting	reporting B4:94-119
linux B4:6, 84-91	format B4:96
ssh B4:87-8	representative sample B2:37
windows B4:9-28	rid 512 B5:30
PKCE B5:155	RIRs B1:78
PKI B5:46	risk B1:12
plugins B1:149	rules of engagement B1:24
polling interval B2:72	runtime env B2:33
port forwarding B4:5	SAM database B4:41, B3:58, 75
port scan B1:94	sam database B2:122
post-exploitation B2:108	scada B2:46
powershell	ScanContent B4:57
obfuscation	scans
pre-engagement	asynchronous B1:96
goals B1:22	efficiency B1:96
rules	parallel B1:121
scope B1:23	stateless
press releases B1:68	tcp B1:103-4, 115-6, 122
primary refresh token B5:152-4	types B1:94
priv attribute cert B5:10	udp B1:106-7, 117
privacy regulations B1:27	ultrafast B1:122
privesc	vulnerability B1:145-51
domain	SCCM B5:163
1:	
linux	scf file
files B3:10	scf file
files B3:10	scheduled tasks B3:42
files	scheduled tasks B3:42 scope B1:23
files B3:10 kernel B3:8 service B3:9	scheduled tasksB3:42scopeB1:23security auditB1:14
files	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44
files B3:10 kernel B3:8 service B3:9 suid B3:11	scheduled tasksB3:42scopeB1:23security auditB1:14security identifiersB4:44sensitive dataB1:27
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows B2:38	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows alwaysinstallelevated B3:14	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows B3:14 dll hijacking B3:14	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14 name B4:16
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows alwaysinstallelevated B3:14 dll hijacking B3:14 group policy preferences B3:17-8	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14 name B4:16 shared object B3:9
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows B3:14 dll hijacking B3:14 group policy preferences B3:17-8 unattended install files B3:15-6	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14 name B4:16 shared object B3:9 shells
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows B3:14 dll hijacking B3:14 group policy preferences B3:17-8 unattended install files B3:15-6 unquoted paths B3:20	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14 name B4:16 shared object B3:9 shells B1:47
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows B3:14 alwaysinstallelevated B3:14 group policy preferences B3:17-8 unattended install files B3:15-6 unquoted paths B3:20 writable service executables B3:14	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14 name B4:16 shared object B3:9 shells B1:47 prompts B1:55
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows B3:14 alwaysinstallelevated B3:14 dll hijacking B3:14 group policy preferences B3:17-8 unattended install files B3:15-6 unquoted paths B3:20 writable service executables B3:14 privileged process B2:39	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14 name B4:16 shared object B3:9 shells ephemeral B1:47 prompts B1:55 silver ticket B5:89-90
files B3:10 kernel B3:8 service B3:9 suid B3:11 local B2:38 windows B3:14 alwaysinstallelevated B3:14 group policy preferences B3:17-8 unattended install files B3:15-6 unquoted paths B3:20 writable service executables B3:14	scheduled tasks B3:42 scope B1:23 security audit B1:14 security identifiers B4:44 sensitive data B1:27 services B3:43 controller B4:14 name B4:16 shared object B3:9 shells B1:47 prompts B1:55

linux	B9·118-99
skeleton key	
smart cards	
smb	
named pipes	,
smb relaying	D9.111
smb signingsource anchor	
SPNSPNs	
ssh	Бэ:99
	D4.6
key theft	
port forwarding	
stagers	
stages	
startup folder	
sudo	
suid B3:11, B2:3	
SYSTEM registry	
sysvol	
tactics	
tep	
pivots	
RST	
terraform automation	В5:155
test types	D1 00
full-knowledge	
unannounced	
zero-knowledge	
threat	
TLS	
tunnels	
UACudp	
unannounced test	
unattend.xml	
unquoted paths	
UPN	
user access admin	
user account control	
bypass	
user principal name	
user recon	
usernames	
vba	
version scan	
VLANs	
Volume Shadow Copy Service	
VSS	
vuln scanning	
agent-based	
authenticated	
plugins	
unauthenticated	
vulnerability	
vulnerability assessment	
vulnerability scan	

web proxy auto discovery B3:108
whois B1:78
windows
exploit obfuscation B2:134
file/print sharing B4:42
files B2:132
firewall B2:131
passwords B3:58-66, 72-7
registry B2:133
WinInet InternetQueryOption B3:108
WinRM B4:10-11
wlan B2:131
WMI
event subscription B3:44
world-writeable B1:51
WPAD B3:108
X509 B5:117
zero-knowledge B1:26

ols/Commands	DNSDumpster B1:75-
Get-Credential B4:11	DNSRecon B1:73
Test-WSMan B4:11	Dradis Reporting B1:43
arp	Empire
base64 B2:112	modules
bitsadmin B3:26	Ews-Crack B5:12
cscript B3:74	ExploitDB B1:3
dir B2:124	EyeWitness B1:140-
findstr B2:132	GatherContacts B1:8
find B3:12, B2:132	$\operatorname{GetFFGP}$
ip B2:116	FineGrainedPassPolicy B2:1
lsof connections B1:53	GetUserSPN
more B2:132	GhostPack
msbuild.exe B4:72-9	GTFOBins B3:1
net.exe	Hashcat B5:22, B3:89-9
net/net1 B2:126-30	HaveIBeenPwned B1:8
netsh B2:131	Hunter.io
	-
netstat connections B1:53, B2:116	Hydra B2:20-
ntdsutil.exe B5:34, B3:76	Immunity CANVAS B2:3
os B3:9	Impacket
reg B2:133	golden ticket B5:9
schtasks B4:21, B3:42	silver ticket B5:89-9
sc B4:14, 23	smbexec/wmiexec B4:3
services.msc B4:16	Invoke-Kerberoast B5:2
setspn.exe B5:12, 19	Iptables
set B2:124	JohnTheRipper B3:83-
ss B2:116	potfile B3:8
type B2:132	unshadow B3:7
name B3:8	jwt.ms B5:138-4
unig B3:50	L0phtCrack B3:5
winrs B4:10	LinPEAS B2:3
wmic B4:25-6	LinuxExploitSuggester B2:3
AAD-Internals	LockoutStatus.exe B2:1
AD Explorer	LOLBAS B3:1
ADCSPwn B5:83	MailSniper B5:12
ALockout.dll B2:15	Masscan
AWS API Gateway B5:138-40	Metasploit B2:19, B3:23, 42-6
Azure CLI B5:162-4	$owa_login \dots B5:12$
Run-Command B5:164	pivoting B4:8
BeRoot B3:24	psexec B4:4
BloodHound B3:30-5	Meterpreter B2:53-6
Burp	$\operatorname{creds}_a ll \dots B3:7$
IP Rotate B5:140	hashdump B3:7
C2 Matrix B2:73	load kiwi B3:7
Cain	pivoting B4:85
Certify	Mimikatz B5:27-8, B3:7
ESC1 B5:57-61	DCShadow B5:27 6, B6:17
ESC4 B5:73-4	DCSync B5::
	· ·
Certipy	golden ticket B5:9
ESC1 B5:65-9	skeleton key B5:
ESC4 B5:75-81	MITRE ATTACK B1:
CeWL B3:51	MITRE CVE B1:
Chameleon B2:134	Monster.com B1:
Cobalt Strike B2:39	MSBuild B4:72
Core IMPACT B2:36	MSOLSpray B5:13
crt.sh	NCrack B2:1
DefenderCheck B4:65	Netcat B4:5, B1:133-
DeHashed B1:85	-, ======

Lischke 6 08/2024

nmap B4:10, B1:109-21, 129-33 limitations B1:121, 151	ESC1 B5:62-4 ScanRand B1:96
os fingerprinting B1:129	schtasksabuse
script.db B1:156	Seatbelt B2:137-9
scripting engine B1:153-6	secretsdump.py B5:33, B3:59
NPK B3:53	SharpBlock B4:63
NTDSUtil B3:76	Shodan B1:80-1
ntlmrelayx.py B5:83	SkullSecurity Passwords B3:50
Patator	Sliver B2:76-83
Pcredz B3:102-4	commands
phonebook.cz B1:84	payloads B2:79-80, 83
Pipal B3:95	server-client B2:82
Posh-SecMod B2:90	Spray365 B5:132
PowerBreach B2:90	load balance140
PowerSploit B2:90, 134	TrevorSpray B5:132
Out-MiniDump B5:103	load balance
Remove-Comment B4:62	UACME B3:23
PowerStripper B4:62	VeilEvasion B4:53, 69
PowerUp B3:25, B2:90	Verizon DBIR B2:69
PowerView B2:90, 134	VirtualProtect B4:63
domain privesc B5:101-2	VirusTotal B4:54
PsExec B4:18-20	VSSAdmin B4:34
pw-inspector B2:13	VSSOwn B3:74
Responder	Watson B3:24
RIRs B1:78	WMIC B4:16
Rubeus B4:12, B5:27	

Lischke 7 08/2024