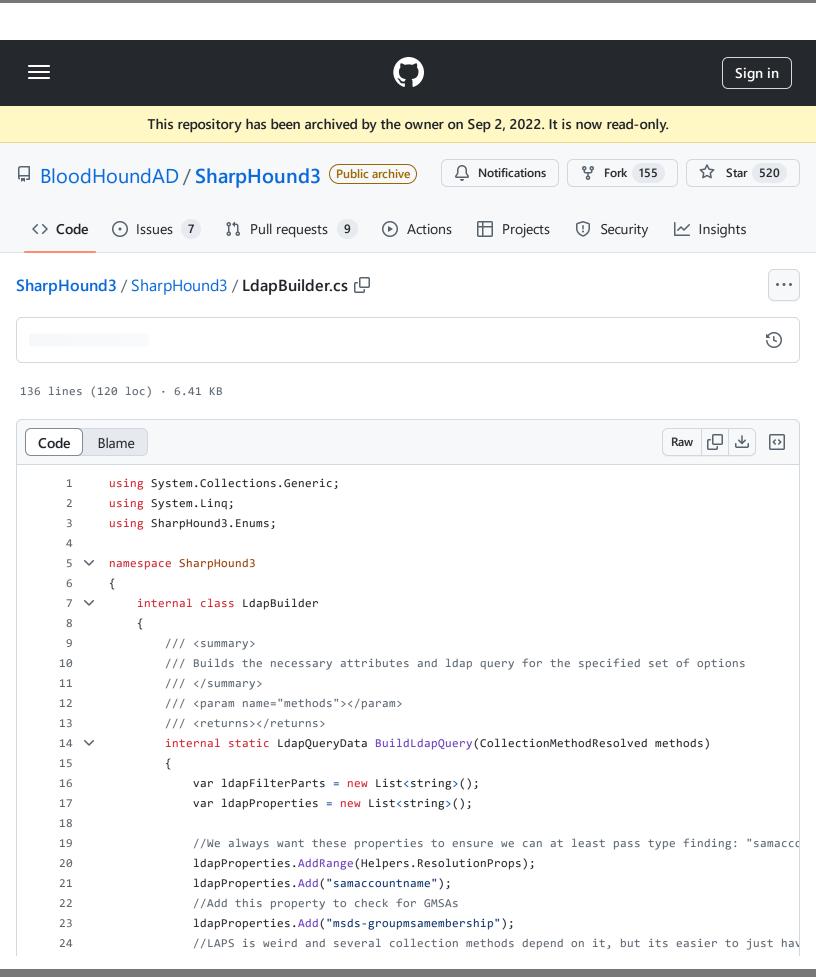
https://github.com/BloodHoundAD/SharpHound3/blob/7d96b991b1887ff50349ce59c80980bc0d95c86a/SharpHound3/LdapBui



```
25
                   ldapProperties.Add("ms-mcs-admpwdexpirationtime");
26
27
                   //Add the operatingsystem property for WindowsOnly so we can pre-filter hosts
                   if (Options.Instance.WindowsOnly)
28
                       ldapProperties.Add("operatingsystem");
29
30
31
                   //Group membership collection
32
                   if (methods.HasFlag(CollectionMethodResolved.Group))
33
                       ldapFilterParts.Add("(|(samaccounttype=268435456)(samaccounttype=268435457)(samacco
34
35
                       ldapProperties.AddRange(new[] { "member", "primarygroupid" });
36
                   }
37
                   //Computer collection methods: ask for non-disabled computer objects
38
                   if (methods.HasFlag(CollectionMethodResolved.LocalAdmin) ||
39
                       methods.HasFlag(CollectionMethodResolved.Sessions) ||
40
                       methods.HasFlag(CollectionMethodResolved.LoggedOn) || methods.HasFlag(CollectionMet
41
                       methods.HasFlag(CollectionMethodResolved.DCOM) || methods.HasFlag(CollectionMethodF
42
43
                   {
                       ldapFilterParts.Add("(&(sAMAccountType=805306369)(!(UserAccountControl:1.2.840.1135
44
45
                   }
46
47
                   //ACL Collection
                   if (methods.HasFlag(CollectionMethodResolved.ACL))
48
49
                   {
                       ldapFilterParts.Add("(|(samAccountType=805306368)(samAccountType=805306369)(samAcco
50
                       ldapProperties.AddRange(new[]
51
52
                            "ntsecuritydescriptor", "displayname", "name"
53
54
                       });
55
                   }
56
                   //Trust enumeration
57
58
                   if (methods.HasFlag(CollectionMethodResolved.Trusts))
59
                       ldapFilterParts.Add("(objectclass=domain)");
60
61
                   }
62
                   //Object Properties
63
                   if (methods.HasFlag(CollectionMethodResolved.ObjectProps))
64
65
66
                       ldapFilterParts.Add("(|(samaccounttype=268435456)(samaccounttype=268435457)(samacco
                       ldapProperties.AddRange(new[]
67
68
                       {
69
                            "pwdlastset", "lastlogon", "lastlogontimestamp",
                            "sidhistory", "useraccountcontrol", "operatingsystem",
70
```

```
71
                             "operatingsystemservicepack", "serviceprincipalname", "displayname", "mail", "t
                             "homedirectory","description","admincount","userpassword","gpcfilesyspath","obj
 72
 73
                             "msds-behavior-version","objectguid", "name", "gpoptions", "msds-allowedToDeleg
                             "sidhistory"
 74
 75
                        });
                    }
 76
 77
 78
                    //Container enumeration
 79
                    if (methods.HasFlag(CollectionMethodResolved.Container))
 80
                    {
                        ldapFilterParts.Add("(|(&(&(objectcategory=groupPolicyContainer)(flags=*))(name=*)(
 81
                        ldapProperties.AddRange(new[] { "gplink", "gpoptions", "name", "displayname" });
 82
 83
                    }
 84
 85
                    //GPO Local group enumeration
 86
                    if (methods.HasFlag(CollectionMethodResolved.GPOLocalGroup))
 87
                    {
 88
                        //ldapFilterParts.Add("(&(&(objectcategory=groupPolicyContainer)(flags=*))(name=*)(
                        //ldapProperties.AddRange(new[] {"gpcfilesyspath", "displayname"});
 89
 90
                        ldapFilterParts.Add("(&(|(objectcategory=organizationalUnit)(objectclass=domain))(g
 91
                        ldapProperties.AddRange(new[] { "gplink", "name" });
 92
                    }
 93
 94
                    //SPN Target Enumeration
 95
                    if (methods.HasFlag(CollectionMethodResolved.SPNTargets))
 96
 97
                        ldapFilterParts.Add("(&(samaccounttype=805306368)(serviceprincipalname=*))");
                        ldapProperties.AddRange(new[]
 98
99
100
                             "serviceprincipalname"
101
                        });
102
                    }
103
104
                    //Take our query parts, and join them together
                    var finalFilter = string.Join("", ldapFilterParts.ToArray());
105
106
                    //Surround the filters with (|), which will OR them together
107
                    finalFilter = ldapFilterParts.Count == 1 ? ldapFilterParts[0] : $"(|{finalFilter})";
108
109
                    //Add the user specified filter if it exists
                    var userFilter = Options.Instance.LdapFilter;
110
                    if (userFilter != null)
111
112
                        finalFilter = $"(&({finalFilter})({userFilter}))";
113
114
115
                    if (Options.Instance.CollectAllProperties)
116
```

SharpHound3/SharpHound3/LdapBuilder.cs at 7d96b991b1887ff50349ce59c80980bc0d95c86a · BloodHoundAD/SharpHound3 · GitHub - 31/10/2024 15:41

https://github.com/BloodHoundAD/SharpHound3/blob/7d96b991b1887ff50349ce59c80980bc0d95c86a/SharpHound3/LdapBui

```
117
                    {
                        ldapProperties = new List<string>();
118
                        ldapProperties.Add("*");
119
120
                    }
121
122
                    //Distinct the attributes
                    return new LdapQueryData
123
                    {
124
125
                         LdapFilter = finalFilter,
                         LdapProperties = ldapProperties.Distinct().ToArray()
126
                    };
127
                }
128
            }
129
130
131 🗸
            internal class LdapQueryData
132
                public string LdapFilter { get; set; }
133
                public string[] LdapProperties { get; set; }
134
135
            }
        }
136
```