

Steal or Forge Kerberos Tickets: Ccache Files, Sub-technique T1558.005 - Enterprise

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Adversaries may attempt to steal Kerberos tickets stored in credential cache files (or ccache). These files are used for short term storage of a user's active session credentials. The ccache file is created upon user authentication and allows for access to multiple services without the user having to re-enter credentials.

The `/etc/krb5.conf` configuration file and the `KRB5CCNAME` environment variable are used to set the storage location for ccache entries. On Linux, credentials are typically stored in the `/tmp` directory with a naming format of `krb5cc_%UID%` or `krb5.ccache`. On macOS, ccache entries are stored by default in memory with an `API:{uid}` naming scheme. Typically, users interact with ticket storage using `kinit`, which obtains a Ticket-Granting-Ticket (TGT) for the principal; `klist`, which lists obtained tickets currently held in the credentials cache; and other built-in binaries. ^{[1][2]}

Adversaries can collect tickets from ccache files stored on disk and authenticate as the current user without their password to perform [Pass the Ticket](#) attacks. Adversaries can also use these tickets to impersonate legitimate users with elevated privileges to perform [Privilege Escalation](#). Tools like Kekeo can also be used by adversaries to convert ccache files to Windows format for further [Lateral Movement](#). On macOS, adversaries may use open-source tools or the Kerberos framework to interact with ccache files and extract TGTs or Service Tickets via lower-level APIs. ^{[3][4][5][6]}

Source: <https://attack.mitre.org/techniques/T1558/005>