

## Prerequisites

- Low privileged access/foothold to a domain workstation.
- Interactive shell as a domain user

# User and Service Enumeration

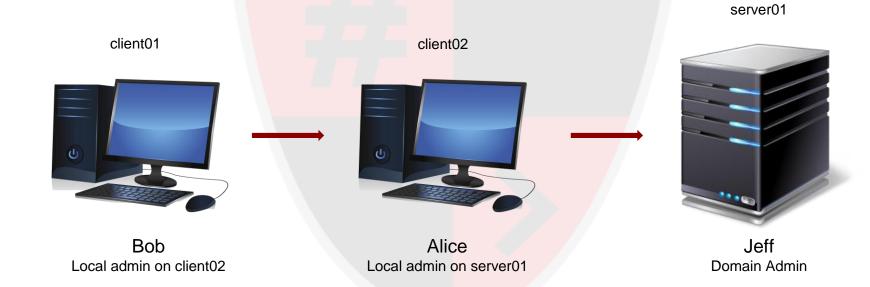
#### Service Enumeration

- Each service is ran when an application is executed in context of an operating system user, services launched by the system run under Service Accounts.
- Complex applications are run under an active domain user account
- Service Principal Name (SPN) is a unique service instance identifier that is used to associate a service to a service account in the AD.
- We can query all domain accounts and know which account has a valid SPN which can be a potential target for service attacks.
- Example services: SQL, Exchange, IIS

#### User Enumeration

- Target is to generate an enumeration map on the target
- We find the domain users first and move on to find currently logged in users on the compromised machine
- These users can be enumerated further to obtain info like high value domain groups, SPNs, ACLs, etc.
- Compromising these users can allow us to move laterally and compromise more domain machines

### **User Enumeration**



#### User and Service Enumeration

- Tools Used
  - Powershell (PowerView)
  - Bloodhound
  - Command Prompt