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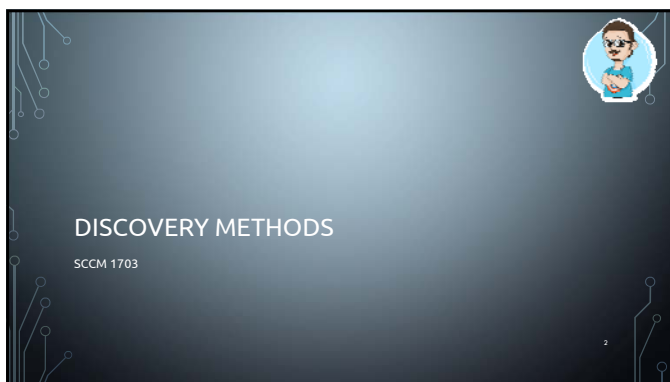
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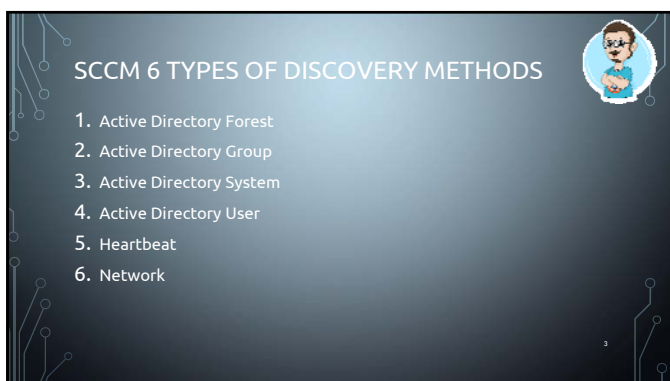
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## ACTIVE DIRECTORY FOREST DISCOVERY



- Can be enabled on CAS or Primary Site
- It does not discover resources that you can manage
- AD Forest Discovery
  - Discovers AD network locations and can convert those locations into boundaries for use within your hierarchy.

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## ACTIVE DIRECTORY GROUP DISCOVERY



- This method searches a discovery scope that you configure and then identifies the group memberships of resources in the discovery scope.
  - By default security groups are discovered

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## ACTIVE DIRECTORY SYSTEM DISCOVERY



- Searches AD for computer resources that can be used to create collections and queries within SCCM.
  - The following information is gathered by System Discovery from the computer
    - Computer name
    - Operating system and version
    - Active Directory container name
    - IP Address
    - Active Directory Site
    - Last Logon Timestamp

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## ACTIVE DIRECTORY USER DISCOVERY



- Searches AD for user accounts and associated attributes such as:
  - User name
  - Unique user name (includes domain name)
  - Domain
  - Active Directory container names

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## HEARTBEAT DISCOVERY



- Heartbeat Discovery is the only enabled discovery method. Heartbeat discovery is pre-configured to run every 7 days on every computer and it aims to create a discovery data record (DDR) which contains the network location, NETBIOS name and operational status details of the computer.

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## NETWORK DISCOVERY



- Searches your network for IP-enabled resources by querying Microsoft DHCP servers, Address Resolution Protocol (ARP) caches in routers, and SNMP-enabled devices. Network Discovery can also search Active Directory domains and IP subnets.

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## SCCM BOUNDARIES

SCCM 1703

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## WHAT IS BOUNDARIES

- A boundary is a network location on the intranet that can contain one or more devices that you want to manage.
  - Boundaries can be based on any of the types:
    - IP subnet
    - Active Directory site name
    - IPv6 Prefix
    - IP address range

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## HOW TO USE BOUNDARIES

- Boundaries are no longer site specific, but when defined once within the hierarchy, they're available at all sites in the hierarchy.
- Each boundary must be a member of a boundary group before a device on that boundary can identify an assigned site, or a content server such as a distribution point.
- You no longer configure the network connection speed of each boundary. Instead, in a boundary group you specify the network connection speed for each site system server associated to the boundary group as a content location server.

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## WHAT IS A BOUNDARY GROUP ?

- Boundary groups are collections of boundaries. By using boundary groups, clients on the intranet can find an assigned site and locate content when they have to install software, such as applications, software updates, and operating system images.



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## INTERNET BASED CLIENTS ?

- When clients are on the Internet, or they are configured as Internet-only clients, they do not use boundary information. These clients cannot use automatic site assignment and always download content from any distribution point in their assigned site when the distribution point is configured to allow client connections from the Internet.



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## 2 TYPES - AUTOMATIC OR MANUAL BOUNDARY CREATION METHODS

- SCCM can automatically create IP Address range and Active Directory Site based boundaries depending on your discovery preferences. This is useful in scenarios where you may have several subnet's or Active Directory Sites defined in Active Directory Sites and Services. If the number of subnets and sites in Active Directory Sites and Services is somewhat small, adding boundaries manually would be more suitable, however keep in mind that entering anything manually is prone to error.



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CONCLUSION

- Creating & configuring boundaries, boundary groups helps configuration manager clients to locate content, use automatic site assignment and policy retrieval from preferred management points.





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