Cisco UCS Manager 4.3 Privileges

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C O N T E N T S

CHAPTER 1

Role-Based Access Control and Privileges

Role-Based Access Control and Privileges

Role-Based Access Control (RBAC) is a method of restricting or authorizing system access for users based on user roles and locales. A role defines the privileges of a user in the system and the locale defines the organizations (domains) that a user is allowed to access.

In Cisco UCS Manager, you do not directly assign privileges to users. Instead, you assign the roles, which contain one or more privileges, to the users. However, to understand which role to assign to a user, you need to know which system resources the privileges included in that role allow the user to access.

For example, in a company which is configured with locales for Engineering and Finance, a user who is assigned the Server Administrator role in the Engineering locale can update server configurations in the Engineering locale but cannot update server configurations in the Finance locale. If you want the user to be able to update server configurations in the Finance locale, you must assign that locale to the user as well.

C H A P T E R 2

Cisco UCS Manager 4.3 Privileges

Cisco UCS Manager 4.3 Privileges

Aaa (aaa)

This privilege allows a user to perform provisioning operations related to Authentication, Authorization and Accounting. This includes managing users and roles, and configuring services that are exposed to the management interfaces.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure users, roles, user locales, user sessions, login banner, authentication domains, authentication providers (LDAP, RADIUS, TACACS).

- Configure Key Ring. Import certificates of trusted authorities. Generate and import Certificates.

- Configure DNS providers and DNS domain.

- Configure SNMP policy, SNMP users, SNMP trap destinations.

- Configure UCS management connectivity: HTTP, HTTPs, SSH, telnet, CIM, WS-MAN, event channel security.

- Configure whether communication policies are resolved locally or through UCS Central.

Admin (admin)

This privilege provides a user with full access to all operations in Cisco UCS Manager.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- This privilege has full access to all operations.

Ext Lan Config (ext-lan-config)

This privilege allows a user to configure LAN settings on a fabric interconnect, including Ethernet border ports, VLANs, LAN PIN groups, Ethernet SPAN sessions, LAN policies, and management interfaces.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure NetFlow policies, exporters and collectors.

- Configure Ethernet PIN Groups.

- Configure VLANs and VLAN groups.

- Configure Ethernet monitoring sessions (SPAN).

- Enable/Disable Ethernet/FC/iSCSI ports and port channels on a server adapter. Set port/port channel label.

- Configure management interfaces (IPv4 and IPv6) on the Fabric Interconnect.

- Configure Ethernet Link Profile and LACP policy.

- Configure DNS providers and DNS domain.

- Configure Ethernet border ports on the Fabric Interconnect. Add/remove VLANs to border ports.

- Configure MAC aging properties. Specify Ethernet end-host or switching mode. Enable/Disable VLAN compression.

- Enable/Disable Ethernet ports on a Fabric Interconnect or IO Module. Set port labels.

- Configure Fabric Interconnect system name.

- Configure management interfaces monitoring policy.

- Configure Inband CIMC profile.

- Specify the allowed range for virtual MAC addresses.

Ext Lan Policy (ext-lan-policy)

This privilege allows a user to configure LAN settings on a fabric interconnect, including Ethernet border ports, VLANs, LAN PIN groups, Ethernet SPAN sessions, LAN policies, and vNIC/vHBA placement policies

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure Ethernet Link Profile and LACP policy.

- Configure NetFlow policies, exporters and collectors.

- Configure Ethernet border ports on the Fabric Interconnect. Add/remove VLANs to border ports.

- Configure MAC aging properties. Specify Ethernet end-host or switching mode. Enable/Disable VLAN compression.

- Enable/Disable Ethernet ports on a Fabric Interconnect or IO Module. Set port labels.

- Configure Ethernet PIN Groups.

- Configure VLANs and VLAN groups.

- Create/modify/delete vNIC/vHBA placement.

- Configure Ethernet monitoring sessions (SPAN).

- Configure Inband CIMC profile.

- Specify the allowed range for virtual MAC addresses.

- Enable/Disable Ethernet/FC/iSCSI ports and port channels on a server adapter. Set port/port channel label.

Ext Lan Qos (ext-lan-qos)

This privilege allows a user to configure QoS classes of service for Ethernet and Fibre Channel and to configure Ethernet MTU.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

Ext Lan Security (ext-lan-security)

This privilege allows a user to configure NTP providers, and date and time zone settings.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure NTP providers, date and time zone.

Ext San Config (ext-san-config)

This privilege allows a user to configure SAN settings on a fabric interconnect, including FC/FCoE border ports, VSANs, SAN PIN groups, and Fibre Channel SPAN sessions.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

Ext San Policy (ext-san-policy)

This privilege allows a user to configure SAN settings on a fabric interconnect, including FC/FCoE border ports, VSANs, SAN PIN Groups, and Fibre Channel SPAN sessions.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure VSANs.

- Configure Fibre Channel and FCoE ports on the Fabric Interconnect. Add/remove VSANs to FC ports. Configure the FCoE native VLAN.

- Specify Fibre Channel end-host or switching mode. Specify FC trunking mode.

- Configure Fibre Channel PIN Groups.

- Configure storage connection within a Service Profile.

- Configure Fibre Channel monitoring sessions.

- Create/modify/delete storage connection policies.

- Configure the allowed range for virtual WWN addresses.

Ext San Qos (ext-san-qos)

This privilege allows a user to configure QoS classes of service for Ethernet and Fibre Channel and to configure Ethernet MTU.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

Fault (fault)

This privilege allows a user to configure fault policies, Call Home policies, and fault suppression policies. The user can also acknowledge faults in Cisco UCS Manager.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure whether fault policies are resolved locally or through UCS Central.

- Configure Call Home policies. Used to send call home events when a fault is raised.

- Acknowledge faults, configure fault policies (flap interval, soak interval, clear/ack action, limits, retention).

Service Profile Compute (ls-compute)

This privilege allows a user to configure most aspects of service profiles. However the user cannot create, modify or delete vNICs or vHBAs. You can use this privilege to enforce a strong separation between server, network, and storage provisioning activities. For example, a network administrator can create vNICs, a storage administrator can create vHBAs, and the server administrator can configure all other elements of a service profile

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Create/modify/delete Service Profile dynamic vNICs within a Service Profile.

- Configure the vNIC/vHBA placement of a Service Profile.

- Assign usNIC policies to service profile.

- Configure VMQ policies.

- Configure Service Profile BIOS policies.

- Configure Service Profile scriptable vMedia.

- Configure Service Profile scriptable vMedia policies.

- Configure schedules. Schedules can be used to trigger one-time or periodic tasks in the future.

- Assign storage profiles to Service Profiles.

- Create/modify/delete local storage policies (disks and LUNs).

- Associate and Disassociate Service Profiles.

- Perform maintenance tasks on local disks, local LUNs and remote LUNs.

- Configure Inband CIMC IP connectivity.

- Configure Storage Profiles. Assign storage profiles to Service Profiles.

- Configure power policies and power placement.

- Create/modify/delete Service Profiles/Templates. Assign policies to Service Profiles. Acknowledge service profile pending tasks.

- Configure vHBA initiator groups.

- Create/modify/delete Service Profile maintenance policies.

Service Profile Config (ls-config)

This privilege allows a user to configure service profiles and to configure distributed virtual switches (DVSes) in a VM-FEX environment.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Create/modify/delete Service Profile dynamic vNICs within a Service Profile.

- Configure Service Profile BIOS policies.

- Configure Service Profile vNICs storage initiator autoconfig policies.

- Configure Service Profile scriptable vMedia policies.

- Assign storage profiles to Service Profiles.

- Associate and Disassociate Service Profiles.

- Perform maintenance tasks on local disks, local LUNs and remote LUNs.

- Configure Inband CIMC IP connectivity.

- Create/modify/delete Service Profiles/Templates. Assign policies to Service Profiles. Acknowledge service profile pending tasks.

- Configure VMware vCenter cryptographic keys.

- Assign port profiles to Distributed Virtual Switches.

- Within a service profile, specify if vNICs/vHBAs should be inherited from the hardware when vNICs/vHBAs are not explicitly defined.

- Create/modify/delete Service Profile maintenance policies.

- Configure FC group templates.

- Configure the vNIC/vHBA placement of a Service Profile.

- Assign usNIC policies to service profile.

- Configure Service Profile scriptable vMedia.

- Configure schedules. Schedules can be used to trigger one-time or periodic tasks in the future.

- Create/modify/delete local storage policies (disks and LUNs).

- Configure VMware vCenter connections, datacenters, folders, switch.

- Configure Storage Profiles. Assign storage profiles to Service Profiles.

- Configure SAN connectivity policies. Configure Service Profile vHBAs and add/remove VSANs on vHBAs.

- Configure power policies and power placement.

- Configure vNIC behavior policy when vNICs are not explicitly defined.

- Configure vHBA behavior policy when vHBAs are not explicitly defined.

Service Profile Config Policy (ls-config-policy)

This privilege allows a user to configure policies that are applied to Service Profiles, including host firmware packages, local disk policies, boot policies, and Serial over LAN policies

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure Service Profile boot policies.

- Configure iSCSI authentication profile.

- Configure Service Profile scriptable vMedia.

- Configure Service Profile scriptable vMedia policies.

- Assign storage profiles to Service Profiles.

- Create/modify/delete Ethernet adapter policies (Ethernet and iSCSI).

- Create/modify/delete local storage policies (disks and LUNs).

- Associate and Disassociate Service Profiles.

- Create/modify/delete FC adapter policies.

- Configure VMware vCenter connections, datacenters, folders, switch.

- Configure power policies and power placement.

- Create/modify/delete management firmware packages. This feature is deprecated.

- Configure Serial over LAN policies.

- Configure VMware vCenter cryptographic keys.

- Assign port profiles to Distributed Virtual Switches.

- Create/modify/delete Service Profile maintenance policies.

Service Profile Ext Access (ls-ext-access)

Service profile end point access

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

Service Profile Network (ls-network)

This privilege allows a user to configure network policies and network elements that are applied to service profile vNICs. A user can also configure other network elements that impact service profiles, such as server ports.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Create/modify/delete Network Control policies.
- Configure Ethernet server ports on the Fabric Interconnect.
- Create/modify/delete Service Profile dynamic vNICs within a Service Profile.
- Create/modify/delete Service Profile dynamic vNIC policies.
- Assign usNIC policies to service profile.
- Configure VMQ policies.
- Create/modify/delete Ethernet adapter policies (Ethernet and iSCSI).
- Configure VLAN and VLAN group org permissions.
- Configure VMware vCenter connections, datacenters, folders, switch.
- Configure Inband CIMC IP connectivity.
- Configure vNIC behavior policy when vNICs are not explicitly defined.
- Reset IO Module and FEX. Set IO Module/FEX labels.
- Create/modify/delete vNIC/vHBA placement.
- Assign port profiles to Distributed Virtual Switches.
- Specify the allowed range for virtual MAC addresses.

Service Profile Network Policy (ls-network-policy)

This privilege allows a user to configure network policies and network elements that are applied to service profile vNICs.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure pools of MAC addresses.
- Create/modify/delete Network Control policies.
- Configure Ethernet server ports on the Fabric Interconnect.

- Create/modify/delete Service Profile dynamic vNICs within a Service Profile.

- Configure pools of IP addresses.

- Create/modify/delete Service Profile dynamic vNIC policies.

- Configure VMQ policies.

- Reset IO Module and FEX. Set IO Module/FEX labels.

- Create/modify/delete vNIC/vHBA placement.

- Specify the allowed range for virtual MAC addresses.

Service Profile Qos Policy (ls-qos-policy)

Service Profile QOS policy

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Create/modify/delete QoS rate-limiting and Flow Control policies.

Service Profile Security (ls-security)

This privilege allows a user to configure IPMI policies.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

Service Profile Security Policy (ls-security-policy)

This privilege allows a user to configure IPMI policies.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure IPMI users and IPMI authentication profiles.

Service Profile Server (ls-server)

This privilege allows a user to configure service profiles.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Create/modify/delete Service Profile dynamic vNICs within a Service Profile.

- Configure the vNIC/vHBA placement of a Service Profile.

- Assign usNIC policies to service profile.

- Configure VMQ policies.

- Configure Service Profile BIOS policies.

• Configure Service Profile scriptable vMedia.

• Configure Service Profile vNICs storage initiator autoconfig policies.

• Configure Service Profile scriptable vMedia policies.

• Configure schedules. Schedules can be used to trigger one-time or periodic tasks in the future.

• Assign storage profiles to Service Profiles.

• Create/modify/delete local storage policies (disks and LUNs).

• Associate and Disassociate Service Profiles.

• Perform maintenance tasks on local disks, local LUNs and remote LUNs.

• Configure Inband CIMC IP connectivity.

• Configure Storage Profiles. Assign storage profiles to Service Profiles.

• Configure SAN connectivity policies. Configure Service Profile vHBAs and add/remove VSANs on vHBAs.

• Configure power policies and power placement.

• Configure vNIC behavior policy when vNICs are not explicitly defined.

• Configure vHBA behavior policy when vHBAs are not explicitly defined.

• Create/modify/delete Service Profiles/Templates. Assign policies to Service Profiles. Acknowledge service profile pending tasks.

• Within a service profile, specify if vNICs/vHBAs should be inherited from the hardware when vNICs/vHBAs are not explicitly defined.

• Create/modify/delete Service Profile maintenance policies.

• Configure FC group templates.

Service Profile Server Oper (ls-server-oper)

This privilege allows a user to control the power state of a service profile.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

• Control the power state of a Service Profile.

Service Profile Server Policy (ls-server-policy)

This privilege allows a user to control the power state of a service profile, associate and disassociate service profiles, and configure server-related policies.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

• Configure Service Profile boot policies.

• Configure iSCSI authentication profile.

- Configure Service Profile scriptable vMedia.

- Configure Service Profile vNICs storage initiator autoconfig policies.

- Create/modify/delete server-related policies: maintenance, BIOS.

- Configure Service Profile scriptable vMedia policies.

- Control the power state of a Service Profile.

- Create/modify/delete Ethernet adapter policies (Ethernet and iSCSI).

- Associate and Disassociate Service Profiles.

- Create/modify/delete FC adapter policies.

- Configure DIMM black listing policy.

- Configure power policies and power placement.

- Create/modify/delete management firmware packages. This feature is deprecated.

- Create/modify/delete vNIC/vHBA placement.

Service Profile Storage (ls-storage)

This privilege allows a user to configure storage policies and storage elements that are applied to service profile vHBAs. The user can also configure other storage elements that impact service profiles.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure Service Profile scriptable vMedia.

- Configure Service Profile vNICs storage initiator autoconfig policies.

- Configure Service Profile scriptable vMedia policies.

- Create/modify/delete storage connection policies.

- Assign storage profiles to Service Profiles.

- Create/modify/delete local storage policies (disks and LUNs).

- Create/modify/delete FC adapter policies.

- Perform maintenance tasks on local disks, local LUNs and remote LUNs.

- Configure Storage Profiles. Assign storage profiles to Service Profiles.

- Set FC zone labels.

- Configure vHBA behavior policy when vHBAs are not explicitly defined.

- Configure the allowed range for UUIDs.

- Configure the allowed range for virtual WWN addresses.

- Configure vHBA initiator groups.

- Configure the FC storage visibility for a vHBA initiator group.

• Configure FC group templates.

Service Profile Storage Policy (ls-storage-policy)

This privilege allows a user to configure storage policies and storage elements that are applied to service profile vHBAs.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

• Configure Service Profile boot policies.

• Configure pools of IQN addresses (for iSCSI).

• Configure Service Profile scriptable vMedia.

• Configure Service Profile vNICs storage initiator autoconfig policies.

• Configure storage connection within a Service Profile.

• Configure Service Profile scriptable vMedia policies.

• Create/modify/delete storage connection policies.

• Assign storage profiles to Service Profiles.

• Configure pools of WWN addresses.

• Create/modify/delete local storage policies (disks and LUNs).

• Configure Storage Profiles. Assign storage profiles to Service Profiles.

• Create/modify/delete vNIC/vHBA placement.

• Configure the allowed range for UUIDs.

• Configure the allowed range for virtual WWN addresses.

• Configure FC group templates.

Operations (operations)

This privilege allows a user to perform maintenance activities, such as SEL backup operations, and to configure system-level policies, such as call home, syslog, and log level, and to create tech support files.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

• Clear or backup SEL log files (FEX, IO Module, CIMC). Configure SEL log policy.

• Configure core file export policies. Download core files.

• Configure the Catalog pack, specifying which catalog to be used.

• Configure whether config, firmware and monitoring policies are resolved locally or through UCS Central.

• Acknowledge faults.

• Configure the statistics collection policies.

- Configure log file export policies. Export log files.

- Configure the Syslog feature.

- Configure the logging level for debug log files on the Fabric Interconnect.

- Generate and download Tech Support files.

- Create/modify/delete stats threshold policies.

Org Management (org-management)

This privilege allows a user to configure organizations in the org hierarchy.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Create/modify/delete organizations.

Server Equipment (pn-equipment)

This privilege allows a user to configure the power supply redundancy policy and to control the power state of network adapters.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Control power state of network adaptors.

- Configure Power Supply Redundancy policy. Configure whether PSU redundancy policies can be resolved through UCS Central.

Server Maintenance (pn-maintenance)

This privilege allows a user to perform maintenance operations on physical servers, such as acknowledging servers, configuring locator LEDs, and decommissioning servers.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Perform server maintenance operations: reset CIMC, reset KVM server, reset CMOS, reset BIOS password,perform diagnostic interrupt, reset server. Set blade and rack server labels.

- Configure diagnostics.

- Enable/Disable mapping out of black-listed DIMMs. Reset server DIMM errors.

- Acknowledge, decommission, recommission and recover blade servers and rack servers.

- Enable/Disable Ethernet ports on a Fabric Interconnect or IO Module. Set port labels.

- Reset IO Module and FEX. Set IO Module/FEX labels.

- Configure locator, indicator, beacon and health LEDs.

- Acknowledge Chassis and IO Module. Set Chassis labels and chassis IDs.

- Control the power state of a Service Profile.

- Enable/Disable Ethernet/FC/iSCSI ports and port channels on a server adapter. Set port/port channel label.

Server Policy (pn-policy)

This privilege allows a user to configure server-related policies.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

- Configure server pools, server pool policies, and server pool qualification policies.

- Control power state of network adaptors.

- Enable/Disable mapping out of black-listed DIMMs. Reset server DIMM errors.

- Configure Service Profile BIOS policies.

- Acknowledge Chassis and IO Module. Set Chassis labels and chassis IDs.

- Configure Power Supply Redundancy policy. Configure whether PSU redundancy policies can be resolved through UCS Central.

- Control the power state of a Service Profile.

- Run diagnostics.

- Configure Service Profile disk and BIOS scrub policies.

- Configure UUID pools.

- Configure VMware vCenter connections, datacenters, folders, switch.

- Perform server maintenance operations: reset CIMC, reset KVM server, reset CMOS, reset BIOS password,perform diagnostic interrupt, reset server. Set blade and rack server labels.

- Configure DIMM black listing policy.

- Configure Virtual Machine and Virtual Machine vNIC retention policy.

- Configure server/chassis discovery, acknowledgement and connectivity policies. Configure blade inheritance and auto-configuration policy.

- Configure whether server/chassis discovery policies can be resolved through UCS Central.

- Acknowledge, decommission, recommission and recover blade servers and rack servers.

- Reset IO Module and FEX. Set IO Module/FEX labels.

- Configure locator, indicator, beacon and health LEDs.

- Configure VMware vCenter cryptographic keys.

- Assign port profiles to Distributed Virtual Switches.

Server Security (pn-security)

Server security

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

Power Mgmt (power-mgmt)

This privilege allows a user to configure power groups, the power budget, and power policies.

Tasks Allowed with this Privilege

A user with this privilege can perform the following tasks:

• Configure Power Groups, power budget, and power policies.