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Efficient ip solidserver manual

© effective IP Legal notification Price-statement Trademarks SiteMap solution SOLIDserver DDI (DNS-DHCP-IPAM) allows you to automate the internal function between the IPAM repository and services functions such as DNS and DHCP. Today, IT systems require additional relationships between components to deliver new services and environments in a reproducible manner. Infrastructure components are mandatory to support applications and are expected to be available and scalable. SOLIDserver's interaction with orchestration or automation systems provides IT infrastructure for IP networks from solution to global load balancing. The full SOLIDserver API stack allows you to connect to the entire infrastructure and application management ecosystem. SOLIDserver's internal engine is based on a standard service-oriented architecture that allows you to completely separate any atomic action. All actions are exposed at different levels of the engine, making it easy to automate, interact with users and control the API. Even if all configuration activities can be done from a web interface, automation requires a simpler and easier-to-manipulate interface. SOLIDserver offers SOAP API and REST API interfaces to integrate with most engines and development languages. The SOAP interface is fully described either through the global WSDL description format or through the web interface. THE REST API is more used now than SOAP on open integration, all services are also available through REST calls. The purpose of the API is to access the features through openness. The functions of the service are published in the format of arguments and returns. You then need some parameterization of the development or tool to organize the different calls correctly, depending on the automation process required. To make it easier to use the API, we offer some integration frameworks or plug-ins in open source projects. All services that allow you to interact with SOLIDserver are available by product and object. The services are then linked to a verb key describing the action that will be performed. Key services are displayed in the CRUD model and cover the steps of adding, counting, listing, information, and deletion. The list of object features per service is presented on the next map of the tree and evolves with each release of the SOLIDserver solution. IPAM: space, network (v4/v6), pool (v4/v6), address (v4/v6), alias (v4/v6) DHCP: server (v4/v6), scope (v4/v6), group (v4/v6), shared network (v4), range (v4/v6), lease (v4/v6), static (v4/v6), option (v4/v6), ACL (v4), failover channel (v4) DNS: server, view, zone, resource record, ACL, TSIG key Application: application, pool, node DNS Guardian: policy NetChange: network device, route (v4/v6), VLAN, port, address (v4/v6), discovered items Workflow: request Device Manager: device, port and Manager: domain, range, VLAN VRF: VRF, route target Administration: service, service, Group, user, user database Integration into the ecosystem requires development. This one is easy whenever THEIs are available and even more when available in standard format. That's why SOLIDserver APIs are also offered in OpenAPI format to facilitate integration. From the specifications, any developer can use their favorite solution, from The Postman or Swagger to anyone integrated into his IDE. Most API features that manipulate DDI objects can use advanced class settings to link specific metadata to an object. This bridges the gap between the automated functions performed in the orchestration systems and the user interface where operators will perform specific administrative actions. It can also help other customs, such as compliance checks, security checks, audits or costings, and billing. Any metadata can be used as a search key when searching and listing operations, facilitating communication between real-world objects and IPAM, and simplifying automation development. Since IPAM contains gold IP records, adding metadata action using an API is very important and easy with the API. Any API call associated with counting objects or listing objects in any repository offers a very advanced filtering capability. Like the S'L clause, you can optimize any request with filter settings on the lines extracted from the repository, as well as the parameters returned from the request. In addition, the information received can be sorted to simplify the customer's analysis. To ensure the security of an API operation, all calls must be verified. In the administration panel, you can create a specific account with the appropriate access rights to each application that will perform API calls. Authorization can be a major segregation between reading and writing, or more developed with specific rights to each module and action. API calls are made through the standard TLS security channel. The digital certificate can be checked at the connection level to determine the SOLIDserver on which the action will be performed. Any action done through an API is tracked to user-level verifiability. More advanced protection and features can be performed with the addition of an API control platform, including user certificate verification, speed limit, protocol-level tracking, or API token authentication. It is essential that companies implement best practices throughout their IPAM organization. The key to success in deploying IP resources is to align users with these best practices. By embedding your own IPAM policies into the IPAM solution, you align these goals in the easiest way possible. You IPAM processes complexity and deliver a convenient app that guides users with automated IPAM compliance. Optimization Optimization templates: Simplifying resource skills and deploying with IP object templates. Patterns guide users through a predetermined or user-defined list of fields for each IP object, such as IP addresses, subnets, dns zones, or DHCP areas. SOLIDserver™ to verify the formatting of data or may limit the data structure to correct qualifying errors. Resource Consumption Organization: Control where IP resources (e.g. subnets, IP bands, IP addresses) are authorized to be distributed by users according to your IP plan or how you organize your human rights delegation. For example, you can limit where IP objects, such as printers, servers, and switches, can be deployed in subnets. Rationalize resource configuration: Identify authorized subnet sizes and options for DNS-DHCP services (for example, for VoIP) to manage service deployment policies. Automate your naming conventions by integrating your IP naming agreements within SOLIDserver™ to apply them according to IP types, geographic location, service membership, or other user-defined criteria. Map IP Plan Organization, depending on your company's organizational needs: The IP Address Plan is the backbone of the network on which network services are organized and deployed. It is important to align IPAM with your organization in accordance with several criteria (geographical, technical, commercial, or administrative). Architecture-level DNS-DHCP Service Management: SmartArchitecture™ makes it easier to deploy and manage DNS-DHCP services by managing not only servers but the entire service architecture. Any SOLIDserver™ part of SmartArchitecture™ will be automatically configured, as well as various servers from other vendors, to establish a communication path between all of them, ensuring the flow of communication and data synchronization. Automation of IPAM-DNS-DHCP: SOLIDserver™ provides dynamic and integrated IPAM management with DNS and DHCP services in one process that delivers the highest level of quality and efficiency. For example, you can create a subnet /24, with IP ranges allocated to THE DHCP in one operation. All configurations will be carried out automatically by SOLIDserver™ and will customize DNS and DHCP services according to these options. Multi-Vendor DNS-DHCP Services Management: SOLIDserver™ combines DNS and DHCP server management for multiple vendors (Microsoft®, Open Source, Cisco® and Nominum®) on a single IPAM solution to simplify service deployment, improve quality, and reduce operating costs. Mass reconfiguration: SOLIDserver™ eliminates hierarchical arborescence dependencies that limit network management branch after branch and server behind the server. You can view, select, and manage certain DHCP areas dedicated to VoIP VoIP multiple DHCP servers simultaneously change specific settings, or change TTL selected resource records in all DNS and NS zones. Simplify migration processes: SOLIDserver™ allows you to move IP resources from your existing IP plan to your new IP plan. IP addresses, subnets, or DNS-DHCP services can be reorganized directly from the GUI to move or copy selected resources. Migration status monitors the process and monitors the stages of progression. SmartArchitecture™: Managing DNS-DHCP services at the architectural level smartArchitecture™ makes it easier to deploy and manage your DNS-DHCP services by managing not only the servers but the entire service architecture. Any SOLIDserver™ part of this SmartArchitecture™ will be automatically configured as well as different servers from other vendors to establish a communication path between all of them ensuring the flow of communication and data synchronization. The high availability of DNS with active-Active Failover and load Sharing: EfficientIP is the only solution on the market that ensures that DNS fails actively with load distribution, allowing DNS Master services to be available and performance optimization. Solving DNS Time Out: Automatic switch in 1 second on the existing Master Server High Scalability with an unprecedented amount of SOLIDserver™ Unique market solution consistent with these DHCP High Availability recommendations with Active-Active Failover SOLIDserver™ provides high availability of architecture for DHCP services in active/active mode. Deployment of zero administrator: Automatic deployment of instant configuration activation on remote Deny of Service Attacks Protection EffectiveIP sites has built intelligence into its SOLIDserver device™ to analyze the behavior of DHCP requests and identify inappropriate customer requests to inform network administrators. The ™ then prevents DHCP services from being disrupted by ignoring bad requests. DNS Cache EfficientIP SOLIDserver™ devices include protection mechanisms that protect your DNS architecture from cache poisoning attacks. DNS cache poisoning attacks are mitigated by randomizing the DNS source port and DNS request transaction ID to eliminate the risk of DNS ID spoofing. Additional protections include removing incoming requests related to areas not related to the organization's domain. Increased service continuity with the DNS Server On the Fly EfficientIP configuration has enabled important optimizations to be created to create DNS zones on the fly without restarting DNS services. This feature eliminates all operational risks associated with restarting the DNS server and ensures that services are always available. However, all file configurations are identical to standard BIND file configurations. Effective technology and meets all DNS standards. Reducing operating costs with mass reconfiguration tools and the migration standard for managing IPAM, DNS and DHCP services has an approach to server-to-server management. This means that changes on multiple servers are very limited or impossible at the same time. Effective devices allow you to select and mass reconfigure multiple dns-DHCP servers in a single operation, or migrate services with a Drag and Drop approach, such as: Add NS (Name Server), modify SOA or TTL selected resource records on all selected zones in all DNS-servers Changing DHCP variants of VoIP areas on selected VLANs on all DHCP Migrate DHCP sites are another zone

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