

# CENTRIFY INFRASTRUCTURE SERVICES “MINI” JUMP START

The Centrify Infrastructure Services Basic Jump Start is intended for environments with up to 50 Unix/Linux systems. It was designed to give small and mid-sized businesses a cost-effective approach to integrating our baseline Infrastructure Service software at the same scalable level as our Enterprise sized customers, and our Globally dispersed customers as well. This package specializes in a fast and efficient deployment by using one of our supported PowerShell scripts to build out the AD architecture and associated Centrify patented Hierarchical Zone technology. This allows an instant baseline of our Identity Broker and DirectAuthorize technologies without a single disruption to the current application, system, or user environment. This script was developed in the field by our own Professional Services experts and utilized in thousands of deployments over the years.

## Deliverables

At the completion of the service, you will receive the following:

- A best practice AD Architecture for streamlined Unix/Linux administration
- A DirectAuthorize Access Control methodology for replacement of box-to-box sudoers files
- A Reporting capability that shows who can access what and what they can do when they get there
- A validated architecture for Parent Zone, Child Zone, and Computer Role access point baselines
- A validated automation of user provisioning and deprovisioning
- Single Sign On validation utilizing user AD credentials
- Informal training over Daily Operations, Ownership, Reporting, and Troubleshooting

*Note: All Unix/Linux groups and systems, Provisioning Groups, Services Accounts, Role Groups, Licenses, Zone Administration Groups, and Zones must be stored under a single organizational unit in accordance with Centrify best practices.*

## Duration

This is a 5-day package delivered as a remote consulting service. (If on-site consulting is preferred a T&E cost will be added to the quote)

## Informal Training

With a focus on cost, and still maximizing the benefits of this package, we provide informal training by the assigned consultant. This sort of instruction can be a combination of whiteboard question and answer periods, or potential overhead presentations, or virtual demonstrations in order to cover the necessary items of interest. The basic focus areas of interest are typically ones that deal with critical operations as listed here:

- Powershell Script – the first part of day one is to go over the script, what it does, and hand-off for same day testing as needed by the customer
- Zone Delegation (how to delegate, and who to delegate to enforcing separation of duties)
- DirectAuthorize (Role Based Access Control and Privilege commands) sudoers replacement
- UID/GID Management - provisioning away from typical UID/GID management

## BENEFITS

- Achieve 50% faster time-to-production
- Gain hands-on experience deploying the Centrify solution
- Reduce management overhead
- Ensure a consistent, supportable implementation based on your existing business practices
- Reduce troubleshooting complexity
- Proven methodology with 96% customer satisfaction rate
- A scalable zero-trust baseline to strengthen your security posture using Centrify best practices

- Troubleshooting – `adfixid`, `adinfo`, `adflush`, `dzdo`, `dzinfo`, show effective users, and other commands
- Reporting – we cover the reporting templates with your database experts, so they can create custom reports specific to your environment and needs (through SQL Reporting Services & Centrify Reporting Services)
- Computer Roles – the highly flexible way to organize access to systems within Centrify’s patented Hierarchical Zone technology

## Who Should Attend

Unix/Linux, Windows, Security and/or System Administrators who need to deploy and administer the Identity Broker — Centrify Infrastructure Services product in their environment.

## Logistics

We recommend a reserved conference room equipped with an LCD projector, or an HDMI Monitor with a whiteboard and dry-erase markers in order to isolate the project team and limit potential disruption. It is recommended that participants bring laptops with network connectivity to download additional documentation, or software as needed. The assigned consultant will take ownership of the collaborative media format for the remote sessions and collaborate on optimal times to accomplish all deliverables.

## Daily Logistics

The following represents a high-level overview of what can be expected each of the days during this engagement. The assigned consultant is ultimately responsible for the daily activities and has the authority to improvise as needed to ensure all deliverables are met by the end of this jumpstart.

DAY	ACTIVITY
1	<p><b>Training Overview - PowerShell Script</b></p> <ul style="list-style-type: none"> <li>• A quick overview of Centrify architecture and the Powershell Script (createou.ps1) used to build the baseline architecture.</li> <li>• Demonstration, and overview of the baseline architecture the script created</li> </ul> <p><b>Training Overview – Zone Technology</b></p> <ul style="list-style-type: none"> <li>• Admins, User Roles, and Computer Roles</li> <li>• Golden Rules (Hierarchical Zones/Delegation/DZ Roles)</li> <li>• UID/GID Management</li> </ul> <p><b>Change Management</b></p> <ul style="list-style-type: none"> <li>• If this is required before running the PowerShell script they should be involved in the overview and review process from the beginning as we expect to run the script at the beginning of day two if it cannot be run on day one.</li> <li>• Establish Service Account creation for Centrify Zone Provisioning Agent on day two.</li> </ul> <p><b>Pre-Requisites</b></p> <ul style="list-style-type: none"> <li>• Customer hands over list of all pre-requisites: <ul style="list-style-type: none"> <li>• List of all Unix/Linux systems in Excel spreadsheet <ul style="list-style-type: none"> <li>• Worksheet One, Column One: hostname.passwd</li> <li>• Worksheet One, Column Two: purpose of the host for grouping purposes. (EX: Application Name, Monitoring Server, Dev Server etc)</li> </ul> </li> <li>• List of all Unix/Linux Groups in Excel spreadsheet <ul style="list-style-type: none"> <li>• Worksheet Two, Column One: group.passwd</li> </ul> </li> <li>• List of all Hostnames, local UID's, local Users <ul style="list-style-type: none"> <li>• Worksheet Three, Column One: Hostname.passwd</li> <li>• Worksheet Three, Column Two: UID</li> <li>• Worksheet Three, Column Three: User Name</li> </ul> </li> </ul> </li> </ul>
2	<p><b>Build Out Begins</b></p> <ul style="list-style-type: none"> <li>• CreateOU script will build AD architecture, associated Zone technology, and Groups.</li> <li>• Establishment of Administration</li> <li>• Establishment of Separation of Duties by permissions and delegation</li> <li>• Delegate control over Zone(s)</li> <li>• Use system spreadsheet for Deployment Manager</li> <li>• Discover and Analyze Systems</li> <li>• Push Centrify Agents to in scope systems (do not join)</li> <li>• Use user spreadsheet to determine provisioning (UID adfxid)</li> <li>• Use spreadsheets to determine computer roles</li> <li>• Establish DirectAuthorize Roles and Commands (listed, login, root-equiv)</li> <li>• Establish User Roles (admins/standard user)</li> <li>• Manually pre-create single system – show effective unix users</li> </ul>

DAY	ACTIVITY
3	<p><b>Build Out Continues</b></p> <ul style="list-style-type: none"> <li>Establish Zone Provisioning Agent</li> <li>Use spreadsheet and ZPA to provision users to Parent Zone</li> <li>Validate ZPA services are running hourly (manual process during deployment setup)</li> <li>Run <code>adjoin -S domainname</code> on pre-created system</li> <li>Validate access from a provisioned user, user role, and computer role (<code>adflush</code>, <code>adinfo</code>, <code>ssh</code>, <code>ss0</code>)</li> <li>Confirm computer groupings from spreadsheet for computer roles</li> <li>Script pre-creates in child zone and computer role(s)</li> <li>Manually “<code>adjoin -S domainname</code>” from system</li> <li>Use Deployment Manager to deploy to multiple systems (slowly add systems to ad)</li> <li>Validate up to 20 systems access and administration controls</li> </ul>
4	<p><b>Build Out and Final Validation</b></p> <ul style="list-style-type: none"> <li>Deployment Manager adjoins for the rest of the pre-created systems</li> <li>Validation logins to validate access via <code>dzinfo</code> and show effective operations</li> <li>Establish Reporting Services</li> </ul>
5	<p><b>Project Closeout</b></p> <ul style="list-style-type: none"> <li>Deployment Manager completes the adjoin process</li> <li>Deployment Manager console shows Zone Membership</li> </ul> <p><b>Training Closeout</b></p> <ul style="list-style-type: none"> <li>Troubleshooting</li> <li>Computer Roles</li> <li>Reporting</li> </ul> <p><b>Status Report closing out what was delivered and deployed</b></p>

### Customizations

The Centrify Professional Services team has the skill and expertise to handle or assist with many implementation customizations where needed. If there are extra implementation tasks that are required, custom scripting needs, custom integration requirements, or any other technical services that will be useful to customer success with Centrify, our services team can set up a pre-sale scoping call to provide custom implementation estimates to fulfill these needs.

### Who Should Attend

Security and system administrators who need to deploy and administer the Infrastructure Services product within their environment.

### Prerequisites

- For customers with up to 50 Unix/Linux systems in their environment.** If your environment has more than 100 systems consider using one of our larger Jump Start packages to address the larger environments.
- Participants should have a basic understanding of Windows Active Directory and Unix/Linux user authentication.
- Change Management/Change Control approval to create an Organizational Unit for storage of Unix data prior to Centrify being onsite.

- Personnel with enterprise level administrative rights to Active Directory, and Unix administrators with root level access to the in-scope Unix/Linux servers being joined to Active Directory.
- Services does not include NIS, LDAP, Winbind, DMZ's, or legacy Kerberos migrations in this Jump Start package.
- List of all Unix/Linux systems in Excel spreadsheet
  - Worksheet One, Column One: `hostname.passwd`
  - Worksheet One, Column Two: reason the host exists (for grouping purposes). (EX: Application Name, Monitoring Server, Dev Server etc)
- List of all Unix/Linux Groups in Excel spreadsheet
  - Worksheet Two, Column One: `group.passwd`
- List of all Hostnames, local UID's, local Users
  - Worksheet Three, Column One: `Hostname.passwd`
  - Worksheet Three, Column Two: UID
  - Worksheet Three, Column Three: User Name

### Key Assumptions

- Client understands that Centrify's performance of the Services and delivery of agreed upon deliverables under this Jump Start is dependent in part upon Client's actions, and Client therefore agrees to cooperate with Centrify in a commercially reasonable manner in the completion of the Services by Centrify. Centrify will promptly notify Client of any delays of potential delays in Centrify's

- ability to undertake and complete performance in accordance with the applicable schedule resulting from the inaction of Client.
- Client will provide all hardware, software, facilities, equipment, and Client personnel (including technical resources) necessary to complete the project. These resources will be provided when they are needed in order to avoid project delays.
  - Client will appoint a single point of contact for the duration of the project. This person will have project management responsibilities, be technically astute and familiar with Client change request processes as well as have the authority to expedite if necessary.
  - Client management will make decisions and resolve issues in a timely manner in order to avoid project delays.
  - If any Consulting Services engagement is cancelled by Client less than three (3) weeks before the scheduled start date for such Services, Centrifly will most likely not be able to reschedule the engagement and be out the revenue. Centrifly will make every effort to redeploy the consultant and if Centrifly is able then the Client agrees to pay Client agrees to pay any reasonable fees and expenses incurred by Centrifly in terms of travel cancellations. If Centrifly is not able to redeploy the consultant then Client agrees to pay the full amount of the Consulting Fees that would have been properly invoiced by Centrifly had Client not cancelled such engagement, and also any reasonable fees and expenses incurred by Centrifly in terms of travel cancellations. For multiple week engagements this only applies for each week that is less than the three (3) week cancellation notice.
  - Centrifly assumes that Client has a single Active Directory Forest in scope of this engagement.
  - Client will have network connectivity and name resolution between all Client systems (including workstations and servers the Centrifly Suite will be installed on, regardless of on-premise vs. off-premise computer locations) and Active Directory connectivity functioning correctly prior to work beginning.
  - All materials and information generated or used by Centrifly in the performance of the Services, including but not limited to the work product delivered to Client ("Consulting Materials"), and all intellectual property rights therein, shall be the property of Centrifly. Centrifly hereby grants to Client a personal, non-transferable, non-sublicensable, non-exclusive license to use, reproduce, copy and display any Consulting Materials solely for Company's internal business purposes. Client obtains no title or ownership in any Consulting Materials, and Centrifly retains all right, title and interest in and to any Consulting Materials. Client retains all right, title, and interest in and to Client data.
  - Engagement Management includes activities performed in support of this Jump Start that require management expertise, oversight, control, and direction in team building, communications, time management, quality assurance and quality control and management, and cost management. Centrifly Professional Services will regularly communicate personnel and resource requirements for this Jump Start to be a success, ensure appropriate staffing and scheduling of Centrifly personnel for this Jump Start, and ensure deliverable quality and timeliness. This entails ensuring that Client is prepared for the Services with all equipment and information as outlined in Exhibit A, as well as regular communications and the close out of the project.
  - Impracticability. Centrifly shall not be required to provide any portion of the Services to the extent the performance of such Services becomes "Impracticable" as a result of a cause or causes outside the reasonable control of Centrifly including unfeasible technological requirements, or to the extent the performance of such Services would require Centrifly to violate any applicable laws, rules or regulations or would result in the breach of any software license or other applicable contract.

### Scope Change Control

During the performance of the engagement, certain issues may arise that effectively prevent the completion of the work outlined in this Jump Start within the planned timeframe, such as, but not limited to, hardware or network failures or outages in Client's environment, problems with Client's in-house software or Client's third-party software, or the unavailability of key Client personnel. If this situation occurs, the designated Centrifly representative will work with Client to identify and document the scope change, its impact on the project approach, timing, fees, resources, and the quality of project results. Centrifly will document this using either the Centrifly Change Request Form or an appropriate Change Control form provided by Client.

Any change in scope must be agreed to in writing prior to Centrifly reengaging on the project and will require the signature of the Centrifly Technical Services Vice President and the appropriate Client representative. Any other problems, disputes or issues arising during this engagement should be communicated as soon as possible after identification to the designated Centrifly Consultant for resolution.

### Pricing and Ordering

This offering is invoiced on purchase and is valid for six (6) months from the date of purchase. Contact your Centrifly Sales representative for pricing details for your region and to arrange for a time, place, and schedule. Or email us at [sales@centrifly.com](mailto:sales@centrifly.com).



Centrifly delivers Zero Trust Security through the power of Next-Gen Access. The Centrifly Zero Trust Security model assumes that users inside a network are no more trustworthy than those outside the network. Centrifly verifies every user, their devices, and limits access and privilege. Centrifly also utilizes machine learning to discover risky user behavior and apply conditional access — without impacting user experience. Centrifly's Next-Gen Access is the only industry-recognized solution that uniquely converges Identity-as-a Service (IDaaS), enterprise mobility management (EMM) and privileged access management (PAM). Over 5,000 worldwide organizations, including over half the Fortune 100, trust Centrifly to proactively secure their businesses. To learn more visit [www.centrifly.com](http://www.centrifly.com).

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