



Privileged Account Management (PAM)

Virtual Desktop Service

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Privileged Account Management (PAM)

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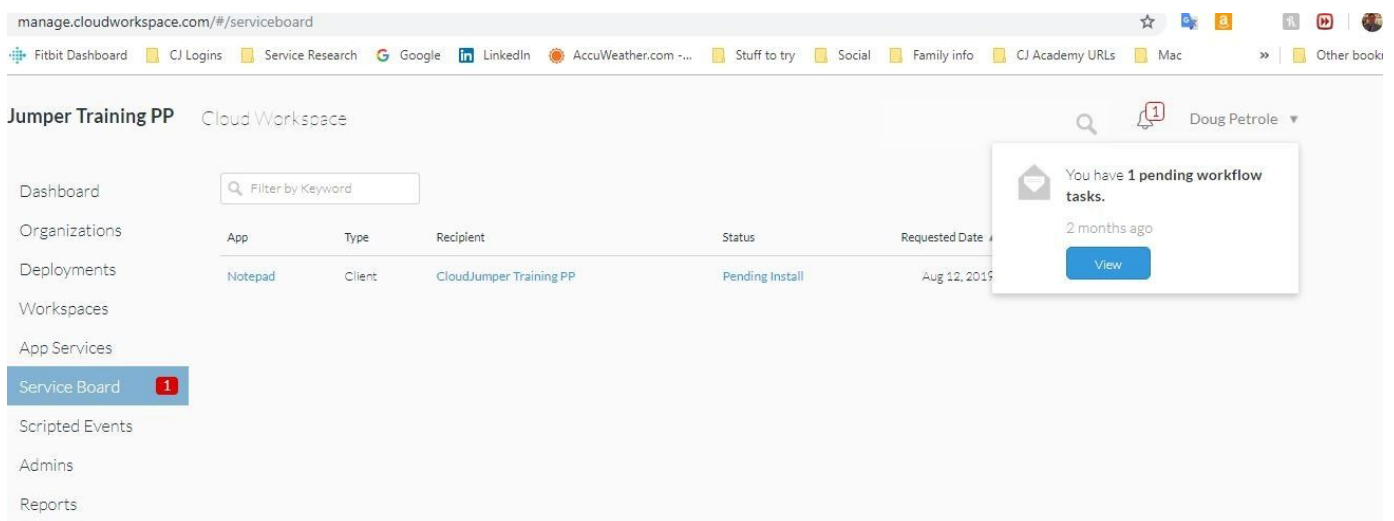
This feature provides a specific, audit-able record of granular administrative permission sets granted to VDS and/or Active Directory privileged accounts. External access automatically expires by default.

PAM provides a mechanism to allow Customers to grant the VDS administrator and/or NetApp VDS Support access and a method for Customers to grant Partners access in an auditable, trackable, reportable format for compliance purposes.

In the modern security context, every privileged account must have a purpose (and as specific a purpose as possible) and should only remain active when needed to reduce attack surface.

Approving and Rejecting PAM Requests in VDS

Once a PAM request is made all VDS admins will be able to see an alert under the bell.



The screenshot shows the CloudWorkspace interface. The top navigation bar includes a search icon, a notification bell with a red '1' badge, and the user name 'Doug Petrole'. The left sidebar lists various modules: Dashboard, Organizations, Deployments, Workspaces, App Services, Service Board (highlighted with a red '1' badge), Scripted Events, Admins, and Reports. The main content area displays a table of PAM requests. A modal window is open over the table, showing a notification: 'You have 1 pending workflow tasks. 2 months ago' with a 'View' button.

App	Type	Recipient	Status	Requested Date
Notepad	Client	CloudJumper Training PP	Pending Install	Aug 12, 2015



all VDS admins can view PAM requests, but only admins with the PAM approver role will be able to approve or reject requests.

Applying the PAM Approver Role

All Primary Admins will inherit the PAM Approver role, but this role can be assigned to any other VDS admin as long as the VDS user has Admin - Edit permissions. Navigate to the Admins module, select an admin and check the box for PAM Approver.

< All Admins

Doug Petrole (doug@dev54)

Overview

✕ Delete Admin

Admin Details

Username	First Name	Last Name
doug@dev54	Doug	Petrole
Phone Number	Partner	
	DEV 5.4 Official	
Locked Status		
Unlocked		
<input type="checkbox"/> Tech Account Enabled	<input type="checkbox"/> User Support Only	<input type="checkbox"/> Shadow User Enabled
		<input checked="" type="checkbox"/> PAM Approver

Update

Turning on Client-Level Approvals

In the event that an organization's deployment requires the ability to approve access as well, Software Master Partners can turn on Client-level approvals by navigating to the Deployments module and scrolling down to the Deployment Details section.

Next, check the box that reads Require Client Approval for PAM Access Requests and click Update. This will send requests that the Software Master Partner requests through to the VDS admins for the deployment. Note: this requires that users are set up as VDS admins as well via these steps. <[Link to Admin Access for Users](#)

Deployment Details

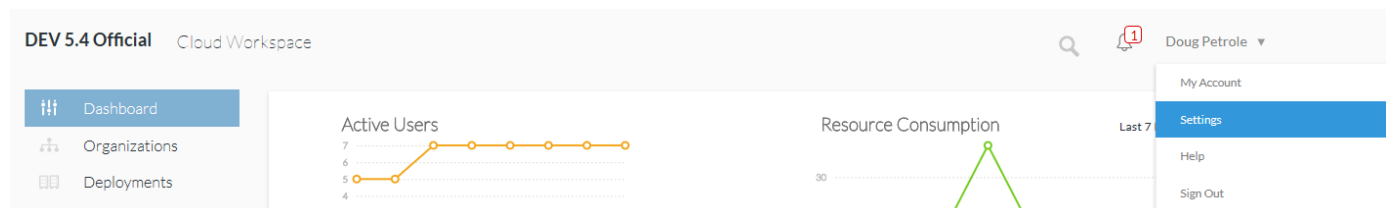


Description	Deployment Code
zalreadythere.onmicrosoft.com	std
Version	Hypervisor
5.4	Azure
Resource Allocation Type	Domain
MachineSize	adtype3.local
h5 Gateway	RDP Gateway
std- h5gw.std.cloudworkspace.app:444	std- rds.std.cloudworkspace.app
FTP Server Address	Directory Type
std-ftp.std.cloudworkspace.app	ActiveDirectory
Most Recent Heartbeat	Directory Type
Feb 24, 2020 9:06 AM	ActiveDirectory
<input checked="" type="checkbox"/> Require Client Approval for PAM Access Requests	

Update

Approving/Rejecting PAM Requests

All admins can view requests by clicking the drop-down arrow next to their name, then Settings, then the PAM Requests tab. Note: Client level approvals see the same information and follow the same process defined below.



Admins can review the following details of each request prior to clicking the settings wheel for each request

and approving or rejecting it:

Request ID: useful to know when communicating/tracking requests, or for reference when auditing access to your environment

Access Level:

VDS: grants full permissions as a VDS admin

Deployment: grants Domain Admin level access to the Active Directory structure for troubleshooting purposes

Requester: the email address of the person requesting access

Deployment: the deployment identifier the requester has asked for privileged access to

Duration: the number of days this access will be active prior to automatically expiring (defaults to 3)

Notes: displays all notes that were entered by the requester

Status:

Pending Approval: displays requests that have yet to be approved or rejected by a PAM approver

Approved: displays existing, approved requests

DEV 5.4 Official (a50)

[Company Overview](#) [App Catalog](#) [PAM Requests](#) [CWAutoPro API](#) [Contact Info](#)

Privileged Access Requests								Add	Refresh
<input type="text" value="Filter by Keyword"/>									
ID	Access Level	Requestor	Deployment	Client	Duration	Notes	Status		
19	Deployment	doug@dev54	std	-	6	For access required to assist with ticket #103402	● Pending (Partner Approval)		
16	Deployment	jshivok@adtype3	std	-	3	deploy hotfix	● Approved (Pending Activation)		
15	Deployment	jshivok@adtype3	std	-	1	need access to get log files.	● Approved (Activated)		

Approving

After clicking the settings wheel PAM approvers will see the request details again. The PAM approver can then enter any notes required for the recipient and click Approve to grant temporary, audited access.

Approve PAM Request

ID	Status
44	Pending (Partner Approval)

Creation Timestamp	Access Level
Feb 24, 2020 11:13 AM	CWMS

Duration	Requester
1 Day(s)	jasonshivok

Email	Notes
doug.petrole@cloudjumper.com	

Request Notes	Approval Notes (optional)
	<input type="text" value="Approved"/>

Cancel

Approve Request

Rejecting

VDS Admins can enter notes when rejecting PAM requests. An example of this would be asking that the requester ask for the same permissions, but for a shorter duration.

Are you sure you want to reject
doug.petrole@cloudjumper.com's request for
deployment access for 6 day(s)?

Reason (Optional)

Enter reason...

Cancel Reject Request

Reporting on PAM Requests

VDS Admins with Reporting rights can navigate to the Reports module and export a csv file displaying all of the details surrounding every PAM request.

Dashboard Organizations Deployments Workspaces App Services Service Board Scripted Events Admins Reports

Report
PAM

Start 02/03/2020 End 02/11/2020

PAM Report

Download CSV File

Activating PAM Accounts

The email account entered when creating the PAM request will receive the following message. Click Activate Request to gain the administrative access (Active Directory for the Deployment) requested.

Dear doug.petrole@cloudjumper.com

Your request for Deployment(std) access has been approved by doug@dev54.

Please use the link below to activate your temporary account.

[Activate Request](#)

Notes from the approver:
no notes provided

Clicking Activate Request will send an SMS message to the number entered when creating the PAM request.

Enter the code that you receive on your mobile device, then set the password for your Active Directory account for the deployment.

PAM - Activate Account

i We have sent a confirmation code to *****1291 - please enter the code below and set a password to activate your account.

Code Resend Code
 

Access Level
Deployment

Duration
6 Day(s)

Password
 

Confirm Password
 

Activate Account

You will then see that the Active Directory admin account for this deployment has been successfully created.

PAM - Activate Account

✓ Successfully activated account. Your account's username is **doug.petrole@adtype3.local**.

Expired Accounts

Accounts that expire will receive a message similar to the following, at which point the privileged access associated with this email address will no longer be in effect.

Dear doug.petrole@cloudjumper.com

Your access to Deployment() has expired after 6 days.

Please submit another request for access if this is still required.

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