ivanti

nZTA Release Notes 22.6R1.2

22.6R1.2

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Contents

Release Notes 22.6R1.2

Introduction

Ivanti Neurons for Zero Trust Access (nZTA) 22.6R1.2 contains a number of functionality enhancements and bug fixes.

Ivanti Neurons for Zero Trust Access platform connects devices securely to applications using the web, eliminating bandwidth and data charges through gateways while constantly verifying the user, device, and application. For more details, see Documentation and Technical Support.

If the information in these Release Notes differs from the information found in the online documentation, refer to the Release Notes as the source of the most accurate information.

What's New

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- **Integrating NMDM with ZTA**: This release supports integration of Ivanti Neurons for MDM with ZTA. For details see Integrating NMDM with ZTA.
- **Enhanced Configuring SAML Authentication Server with Azure AD**: This release supports downloading enroll and sign-in metadata files from the SAML Authentication Server page. For details see Workflow: Creating a SAML Authentication Policy With Azure AD.

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- **Oracle Cloud Platform support for ZTA Gateway**: ZTA Gateway now supports deployment on Oralce Cloud Platform. For details see Workflow: Creating a Gateway in Oracle Cloud Platform.
- **Launching the Windows Edge/Webview2 browser**: In a typical enrollment, upon successful authentication to the Controller, Ivanti Secure Access Client automatically shows the end-user portal applications page through a Windows Edge/Webview2 browser. This feature is supported with ISAC client version 22.6R1. For details. see Enrolling a Windows Device.
- **Reusable custom icon to associate with application**: The create application page provides an option to upload your own icon, which can be used to associate with more than one application. For details. see Adding Applications to the Controller.
- **Enhancements to L4, Gateway Logs, and Logs Tables**:

  The following list shows the enhancements to L4, Gateway Logs, and Logs Tables.

  - Column resizing across ZTA pages
  - Cell content copy text from Table
  - Pagination across ZTA pages
  - Minimum number of columns in all the tables in L4 dashboards
  - Enhancement to Advanced Filter

  For details. see Viewing Detailed Logs for a Chart and Filtering the Logs.

- **Simplifying device rules and policies, and global device preferences**: Admin experience is enhanced by simplifying the device rules and policies For details, see Creating Device Policies, Setting Global Device Preferences.

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Suppress EUP Auto Launch: Allows Admin to suppress the auto launch of the End User portal. This option is enabled by default and works with ISAC 22.5R1 and later. For details, see Setting Global Device Preferences.

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- Admin Access Control based on location, Host Checker, and Network: Checks the Admin's device geographic location/network/host checker compliance for admin sign-in policy before providing access to admin login. For details, see Configuring Default Device Policy for Users.
- Enhancements to Non Compliance and Anomalies L4 Drill Down logs:
  - The Anomalies L4 table now includes MAC Address and Source IP Address columns.
  - The Non-compliances L4 table now includes Acknowledged, Non-compliant Policy Type, Non-compliance Policy reason, MAC Address and Source IP Address columns.
  - For details, see Using the Active Anomaly and Non-Compliance Charts.
- Log export options to the admin from Gateway and L4 (drill down view) logs: In any of the L4 pages, export the displayed log as a CSV or JSON text file, or create schedules to set up log export jobs. For details, see Viewing Detailed Logs for a Chart.
- Exporting logs from L4 (drill down view) logs and Gateway logs. For details see Exporting logs.
- Gateway Creation Config UI Simplification: Create ZTA Gateway and Create ZTA Gateway Group are grouped under Create. For details, see Adding a vSphere Gateway.
- Acknowledge non-compliance in the non-compliance info panel on the Landing page: Acknowledge individual non-compliances and remove them from the active total. Filter on acknowledged, unacknowledged (active), or all non-compliances. For details, see Using the Summary Ribbon.

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- **Role Based Access Control for Admin Users**: With Role-based access control (RBAC), organizations can easily add admins and assign them specific roles, with differing levels of access to the nSA Admin Portal. In addition to an existing set of default roles, Administrators can now create custom granular roles for specific functions within the nSA admin portal. For details, see Role-based Access Control for Admin Users
- **HTTP Proxy Support**: Support Proxy configuration in gateway to connect to ZTA.

For details, see:

- Adding a vSphere Gateway
- Adding an AWS Gateway
- Adding an Azure Gateway
- Adding a KVM Gateway
- Adding a GCP Gateway

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- **Applications and Application Groups UI change**: Group together multiple applications for which a single secure access policy is required. Adding Applications to the Controller and Adding Application Groups to the Controller.
- **ZTA Gateway Connection Control for Trusted Networks**: ZTA Gateway can sometimes be bypassed so that users can connect directly to specific applications. For example, you might want users to bypass ZTA for a specific application if they are connected directly to your trusted corporate network. ZTA gateway tunnel creation will be bypassed on the endpoint since resource access will go through the physical interface.

  For details, see Configuring a Default Gateway for Application Discovery.
- **Gateway Re-registration**: ZTA Gateway can now be re-registered in case if the Gateway Registration was not successful and can edit gateway configuration parameters. On registration failures, admin can trigger the registration manually along with the current debugging options such as networking tools, reboot etc. You can also regenerate and download the gateway init config from the controller admin interface as when required. The Admin can also use Registration error report, which provides insight about the registration failure and suggest solutions to overcome it.

For details, see Re-registering a VMware vSphere Gateway, Re-registering an Amazon Web Services Gateway and Re-registering a GCP Gateway.

Limitations : Azure and KVM does not allow the user to update configuration after the gateway is deployed. So, if any config update is needed in Azure or KVM gateways (ZTA) ,we need to redeploy the ZTA gateway.

- **Location/Network rule support in default device policy**: Location/Network policy based enforcement can be applied for any user policy. For details, see Options for Location Rules and Options for Network Rules.

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- **Management port support on ZTA Gateway**: With this feature, ZTA Gateway can use management interface to communicate with controller and NTP Server.

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- Optimal Gateway Selection (OGS)
- End User UX Improvements
- Simplified Configuration Users and Secure Access Policy configurations
- Actionable Insights: Step up Authentication, Subsequent login and Chart Visibility
- Device Risk Assessment: RiskSense integration, Default Device Policy
- Application Visibility Improvements: Secure Access Policy for discovered applications
- Lookout SWG/CASB Forward Proxy integration
- External Browser support
- Minimum Client Version
- Lock Down mode support
- PSAL with Browser Extension

Noteworthy Changes: 22.6R1

- Default ESAP version is 4.1.6 or the manually selected previous version will be retained. The newer version of ESAP must be manually enabled from the ZTA controller. In case of any config error after selecting the new version, the admin must delete any unsupported versions (See the Admin logs for any unsupported versions). For more information, see https://forums.ivanti.com/s/article/ESAP-Package-Selection-Behaviour-Changes-Starting-from-ZTA-22-6R1-Release
- ESAP Version 3.9.3 is deprecated in this release. If the deprecated version is previously selected it will be upgraded with ESAP version 4.1.6.
- Default ISAC version is 22.5R1 (25375) or the manually selected previous version will be retained. The newer version of ISAC must be manually enabled from the ZTA controller. For more information, see https://forums.ivanti.com/s/article/Ivanti-Secure-Access-Client-ISAC-Behaviour-Changes-Starting-from-ZTA-22-6R1-Tenant-Release
- ISAC Client 22.3R1 18209 is deprecated in this release. If the deprecated version is previously selected it will be upgraded with ISAC version 22.5R1 (25375).

Noteworthy Changes: 22.5R1

UI changes in Application Create/Edit page:

- Admin can choose to continue creating another application in Create page.
- Admin can change the name of an existing application in Edit page.

Noteworthy Changes in 22.4R3

- App configuration supports configuring subnets and ports. For example, 192.168.1.0/24:443.

For a list of the issues resolved in this release, see the information that follows.

Important Notice for v22.1R1 and Later

Release 22.1R1 includes updates to address the OpenSSL vulnerability described in CVE-2022-0778. Ivanti recommends upgrading your Gateways and Clients to the Recommended Version listed in this document at your earliest convenience.

Limitations

The following limitations apply to this release:

- nslookup is not supported on Windows and Mac OS.
- RBAC: If the tenant has both nSA and ZTA gateway, setting any common permissions while creating an Custom RBAC Admin Role applies to both nSA and ZTA gateway. For example, if custom admin role has modify permission for ZTA gateway then the same applies to nSA gateway also.
- Okta and PingID SAML authentication methods are supported for MacOS and Windows variants only.
- Each application can only be accessed with ping/SSH using the addressing method specified when registering it. That is, if you registered the application using an FQDN, you cannot access it using an IP address.
- PZT-24825: Tenants wanting to use their own Public Key Infrastructure with device certificates (known in this document as BYOC - Bring Your Own Certificate), the following limitations apply:
    - For existing tenants, to convert from a non-BYOC tenant to a BYOC tenant is not supported. This is supported only for newly-created tenants.

      After tenant creation, the admin must configure the tenant as BYOC before registering a gateway or enrolling an end-user device.

    - For existing tenants, to convert from a BYOC tenant to a non-BYOC tenant is not supported as the tenant needs at least one customer CA.

      If all customer CAs are removed after gateways or devices have been enrolled, those existing gateways and devices will not function properly.

    - A CA is not permitted to be used by more than one BYOC tenant.

Upgrading Ivanti Secure Access Client Windows Variants to Version 21.6 or Later

Ivanti is aware that Windows-based desktop devices that have Ivanti Secure Access Client installed from a previous nSA release (9.1R11 and earlier) can fail during upgrade to the version applicable to nSA release 21.6 or later. This is due to a certificate expiry issue in the client.

To remedy this situation, please refer to the instructions and helper files contained at:
https://pulsezta.blob.core.windows.net/client/21.6/Pulse_Client_Upgrade_Helper.zip

Administrators using Microsoft Intune for MDM services should instead refer to this document:
https://pulsezta.blob.core.windows.net/client/21.6/Intune_Pulse_client_Upgrade.docx

Client, Platform and Gateway Version Support

Client Versions Supported

The Ivanti Secure Access Client Desktop/Mobile versions listed below are the supported versions to use with Ivanti Neurons for Zero Trust Access for this release.

Client	Recommended Versions	Qualified Versions
macOS	22.5R1-25375	22.6R1-26825 22.5R1-25375 22.3R3-19959 22.3R2-19787
Windows	22.5R1-25375	22.6R1-26825 22.5R1-25375 22.3R3-19959 22.3R2-19787
Linux	22.5R1-25375	22.6R1-26825 22.5R1-25375 22.3R3-19959 22.3R2-19787
Android	22.6.1(r899854.8)	22.6.1(r899854.8)
iOS	22.5.1.92129	22.5.1.92129

ESAP Versions Supported

The ESAP versions listed below are the supported versions to use with Ivanti Neurons for Zero Trust Access for this release.

ESAP	Recommended Versions	Qualified Versions
	4.2.6	4.2.6 4.1.6 4.0.5 3.9.6

Platforms Supported

The platform OS and browser versions listed below are supported for this release.

Platform	Operating System	Web Browser
Windows	nZTA is compatible with: • Windows 11 22H2 • Windows 10 22H2 • Windows 10 Version 20H2 • Windows 10 Version 2004 • Windows 10 Version 1909 • Windows 11 • Windows 8.1 Enterprise, 64 bit • Windows Server 2012 and 2016	nZTA is compatible with: • Chrome 103.0.5060.53(64-bit) • Firefox 102.0.1 (64-bit) • Edge 103.0.1264.44 (64bit)
macOS	nZTA is compatible with: • macOS 10.15.6, 64 bit • macOS 10.15.1, 64 bit • macOS 10.14, 64 bit • macOS 10.13, 64 bit • macOS Big Sur 11.0.1, 64 bit • macOS Monterey 12.0.1, 64 bit • macOS Ventura 13.0	nZTA is compatible with: • Safari 15.2, 14.1.2, 13.1.2, 12.x • Chrome 103.0.5060.114 (x86_64) • Firefox 102.0 (64-bit) • Edge 103.0.1264.51 (64bit)
Linux	nZTA is compatible with: • Ubuntu 18.04 LTS • Ubuntu 18.04.1 LTS • Ubuntu 18.04.2 LTS	nZTA is compatible with: • N/A

Platform	Operating System	Web Browser
	• Ubuntu 20.04 LTS (fully supported) • Ubuntu 20.04.1 LTS • Fedora 32 • Fedora 31 • Fedora 34 • Debian 10 • Centos8/RHEL8	
Android	nZTA is compatible with: • Android 13 • Android 12 • Android 11 • Android 10 These were tested on: • One Plus 6 • Samsung Galaxy S10 • Samsung Galaxy S20 • Samsung Galaxy S21 • Samsung Galaxy Note 10 • Google Pixel 6 • Google Pixel 5	nZTA is compatible with: • Chrome • Firefox • Duckduckgo Ensure that you use the latest versions of your browser for your operating system.
iOS	nZTA is compatible with:	nZTA is compatible with: • Safari • Chrome

Platform	Operating System	Web Browser

	• Qualified:
	  • iPhone 15.7, 15.7.1,15.5,16.0,16.1,16.3,16.6
	  • iPad 14.7.1,16.6
	• Compatible:
	  • 15.x, 14.x, 13.x
		Ensure that you use the latest versions of your browser for your operating system.

ZTA Gateway Versions Supported In This Release

The ZTA Gateway versions listed below are the supported versions to use with nSA for this release.

For details pertaining to Ivanti Connect Secure (ICS) Gateways, refer instead to the "ICS Gateway Release Notes".

Gateway	Recommended Versions	Supported Versions
ZTA Gateway	22.6R1-453	22.6R1-453 22.5R1-517 22.4R3-411

Usage of ZTA Gateway from nSA Versions Prior to 20.10

If you are using a base ZTA Gateway image supplied with nSA versions earlier than v20.10, the license agreement prompt can appear on the Gateway console following a reboot causing the Gateway to appear as unavailable until the agreement is accepted. If you encounter this issue, replace the Gateway with a new instance at the latest available version.

ZTA Gateway Templates Supported In This Release

Download a local copy of the Gateway template files listed here and save to a location that is accessible from the hypervisor or cloud management interface you are using. Refer to the Tenant Admin Guide for full details of how to deploy your Gateways.

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- **On-Premises VMware vSphere**:

  The following OVF template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-VMWARE-ZTA-22.6R1-453.1.zip

- **On-Premises KVM**:

  OpenStack distribution qualified: OpenStack Stein release.

  The following KVM template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-KVM-ZTA-22.6R1-453.1.zip

- **Amazon Web Services (AWS)**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-2nic-existing-vpc.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-3nic-existing-vpc.json

  To deploy in a new VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-2nic-new-vpc.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-3nic-new-vpc.json

  AMIs are available in all AWS regions (except China). To obtain the AMI applicable to your region, follow these steps:

  1. Log into the AWS console.
  2. Navigate to **EC2 > Images > AMIs**.
  3. Select "Public Images".
  4. Search for the image corresponding to your selected hypervisor: Nitro: ISA-V-NITRO-ZTA-22.6R1-453.1-SERIAL-nitro.img
  5. Make a note of the corresponding AMI ID.

- **Microsoft Azure**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-2-nics-existing-vnet.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-3-nics-existing-vnet.json

  To deploy in a new VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-2-nics.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-3-nics.json

  The following Azure VHD images are applicable to this release. Use the link most suitable for your geographic location:

  - Americas: https://pulsezta.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.6R1-453.1-SERIAL-hyperv.vhd
  - APJ: https://pulseztaapj1.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.6R1-453.1-SERIAL-hyperv.vhd
  - Europe: https://pulseztaeurope.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.6R1-453.1-SERIAL-hyperv.vhd

- **Google Cloud Platform**:

  The following template files are applicable to this release:

  - To deploy in an existing VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-2-nics-existing-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-3-nics-existing-vpc.zip
  - To deploy in a new VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-2-nics-new-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-3-nics-new-vpc.zip

  The following GCP gateway image is applicable to this release:
  https://pulsezta.blob.core.windows.net/gateway/ISA-V-GCP-ZTA-22.6R1-453.1.tar.gz

- **Oracle Cloud Platform**:
  - The following Oracle Cloud platform image is applicable to this release:
    https://pulsezta.blob.core.windows.net/gateway/ISA-V-OCI-ZTA-22.6R1-453.1.zip
  - The following template files are applicable to this release:
    https://pulsezta.blob.core.windows.net/gateway/templates/OCI/Terraform.zip

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- **On-Premises VMware vSphere**:

  The following OVF template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-VMWARE-ZTA-22.6R1-453.1.zip

- **On-Premises KVM**:

  OpenStack distribution qualified: OpenStack Stein release.

  The following KVM template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-KVM-ZTA-22.6R1-453.1.zip

- **Amazon Web Services (AWS)**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-2nic-existing-vpc.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-3nic-existing-vpc.json

  To deploy in a new VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-2nic-new-vpc.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-9-453/Nitro/ivanti-3nic-new-vpc.json

  AMIs are available in all AWS regions (except China). To obtain the AMI applicable to your region, follow these steps:

  1. Log into the AWS console.
  2. Navigate to **EC2 > Images > AMIs**.
  3. Select "Public Images".
  4. Search for the image corresponding to your selected hypervisor: Nitro: ISA-V-NITRO-ZTA-22.6R1-453.1-SERIAL-nitro.img
  5. Make a note of the corresponding AMI ID.

- **Microsoft Azure**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-2-nics-existing-vnet.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-3-nics-existing-vnet.json

  To deploy in a new VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-2-nics.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-9-453/ivanti-zta-3-nics.json

  The following Azure VHD images are applicable to this release. Use the link most suitable for your geographic location:

  - Americas: https://pulsezta.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.6R1-453.1-SERIAL-hyperv.vhd
  - APJ: https://pulseztaapj1.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.6R1-453.1-SERIAL-hyperv.vhd
  - Europe: https://pulseztaeurope.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.6R1-453.1-SERIAL-hyperv.vhd

- **Google Cloud Platform**:

  The following template files are applicable to this release:

  - To deploy in an existing VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-2-nics-existing-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-3-nics-existing-vpc.zip
  - To deploy in a new VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-2-nics-new-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-9-453/ivanti-zta-3-nics-new-vpc.zip

  The following GCP gateway image is applicable to this release:
  https://pulsezta.blob.core.windows.net/gateway/ISA-V-GCP-ZTA-22.6R1-453.1.tar.gz

- **Oracle Cloud Platform**:
  - The following Oracle Cloud platform image is applicable to this release:
    https://pulsezta.blob.core.windows.net/gateway/ISA-V-OCI-ZTA-22.6R1-453.1.zip
  - The following template files are applicable to this release:
    https://pulsezta.blob.core.windows.net/gateway/templates/OCI/Terraform.zip

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- **On-Premises VMware vSphere**:

  The following OVF template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-VMWARE-ZTA-22.5R1-517.1.zip

- **On-Premises KVM**:

  OpenStack distribution qualified: OpenStack Stein release.

  The following KVM template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-KVM-ZTA-22.5R1-517.1.zip

- **Amazon Web Services (AWS)**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-6-517/Nitro/ivanti-zta-2-nics-existing-vpc.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-6-517/Nitro/ivanti-zta-3-nics-existing-vpc.json

  To deploy in a new VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-6-517/Nitro/ivanti-zta-2-nics-new-network.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-6-517/Nitro/ivanti-zta-3-nics-new-network.json

  AMIs are available in all AWS regions (except China). To obtain the AMI applicable to your region, follow these steps:

  1. Log into the AWS console.
  2. Navigate to **EC2 > Images > AMIs**.
  3. Select "Public Images".
  4. Search for the image corresponding to your selected hypervisor: Nitro: ISA-V-NITRO-ZTA-22.5R1-517.1-SERIAL-nitro.img
  5. Make a note of the corresponding AMI ID.

- **Microsoft Azure**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-6-517/ivanti-zta-2-nics-existing-vnet.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-6-517/ivanti-zta-3-nics-existing-vnet.json

  To deploy in a new VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-6-517/ivanti-zta-2-nics.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-6-517/ivanti-zta-3-nics.json

  The following Azure VHD images are applicable to this release. Use the link most suitable for your geographic location:

  - Americas: https://pulsezta.blob.core.windows.net/gateway/ISA-V-AZURE-ZTA-22.5R1-517.1.vhd
  - APJ: https://pulseztaapj1.blob.core.windows.net/gateway/ISA-V-AZURE-ZTA-22.5R1-517.1.vhd
  - Europe: https://pulseztaeurope.blob.core.windows.net/gateway/ISA-V-AZURE-ZTA-22.5R1-517.1.vhd

- **Google Cloud Platform**:

  The following template files are applicable to this release:

  - To deploy in an existing VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-6-517/ivanti-zta-2-nics-existing-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-6-517/ivanti-zta-3-nics-existing-vpc.zip
  - To deploy in a new VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-6-517/ivanti-zta-2-nics-new-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-6-517/ivanti-zta-3-nics-new-vpc.zip

  The following GCP gateway image is applicable to this release:
  https://pulsezta.blob.core.windows.net/gateway/ISA-V-GCP-ZTA-22.5R1-517.1.tar.gz

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- **On-Premises VMware vSphere**:

  The following OVF template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-VMWARE-ZTA-22.4R3-411.1.zip

- **On-Premises KVM**:

  OpenStack distribution qualified: OpenStack Stein release.

  The following KVM template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-KVM-ZTA-22.4R3-411.1.zip

- **Amazon Web Services (AWS)**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-5-411/Nitro/ivanti-zta-2-nics-existing-vpc.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-5-411/Nitro/ivanti-zta-3-nics-existing-vpc.json

  To deploy in a new VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-5-411/Nitro/ivanti-zta-2-nics-new-network.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-5-411/Nitro/ivanti-zta-3-nics-new-network.json

  AMIs are available in all AWS regions (except China). To obtain the AMI applicable to your region, follow these steps:

  1. Log into the AWS console.
  2. Navigate to **EC2 > Images > AMIs**.
  3. Select "Public Images".
  4. Search for the image corresponding to your selected hypervisor: Nitro: ISA-V-NITRO-ZTA-22.4R3-411.1-SERIAL-nitro.img
  5. Search for the image corresponding to your selected hypervisor: Xen: ISA-V-XEN-ZTA-22.4R3-411.1-SERIAL-xen.img
  6. Make a note of the corresponding AMI ID.

- **Microsoft Azure**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-5-411/ivanti-zta-2-nics-existing-vnet.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-5-411/ivanti-zta-3-nics-existing-vnet.json

  To deploy in a new VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-5-411/ivanti-zta-2-nics.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-5-411/ivanti-zta-3-nics.json

  The following Azure VHD images are applicable to this release. Use the link most suitable for your geographic location:

  - Americas: https://pulsezta.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.4R3-411.1-SERIAL-hyperv.vhd
  - APJ: https://pulseztaapj1.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.4R3-411.1-SERIAL-hyperv.vhd
  - Europe: https://pulseztaeurope.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.4R3-411.1-SERIAL-hyperv.vhd

- **Google Cloud Platform**:

  The following template files are applicable to this release:

  - To deploy in an existing VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-5-411/ivanti-zta-2-nics-existing-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-5-411/ivanti-zta-3-nics-existing-vpc.zip
  - To deploy in a new VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-5-411/ivanti-zta-2-nics-new-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-5-411/ivanti-zta-3-nics-new-vpc.zip

  The following GCP gateway image is applicable to this release:
  https://pulsezta.blob.core.windows.net/gateway/ISA-V-GCP-ZTA-22.4R3-411.1.tar.gz

22.4R1

- **On-Premises VMware vSphere**:

  The following OVF template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-VMWARE-ZTA-22.4R1-349.1.zip

- **On-Premises KVM**:

  OpenStack distribution qualified: OpenStack Stein release.

  The following KVM template is applicable to this release:

  https://pulsezta.blob.core.windows.net/gateway/ISA-V-KVM-ZTA-22.4R1-349.1.zip

- **Amazon Web Services (AWS)**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-4-349/Nitro/ivanti-zta-2-nics-existing-vpc.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-4-349/Nitro/ivanti-zta-3-nics-existing-vpc.json

  To deploy in a new VPC on Nitro Hypervisor:

  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-4-349/Nitro/ivanti-zta-2-nics-new-network.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/AWS/23-4-349/Nitro/ivanti-zta-3-nics-new-network.json

  AMIs are available in all AWS regions (except China). To obtain the AMI applicable to your region, follow these steps:

  1. Log into the AWS console.
  2. Navigate to **EC2 > Images > AMIs**.
  3. Select "Public Images".
  4. Search for the image corresponding to your selected hypervisor: Nitro: ISA-V-NITRO-ZTA-22.4R1-349.1-SERIAL-nitro.img
  5. Search for the image corresponding to your selected hypervisor: Xen: ISA-V-XEN-ZTA-22.4R1-349.1-SERIAL-xen.img
  6. Make a note of the corresponding AMI ID.

- **Microsoft Azure**:

  The following JSON template files are applicable to this release:

  To deploy in an existing VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-4-349/ivanti-zta-2-nics-existing-vnet.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-4-349/ivanti-zta-3-nics-existing-vnet.json

  To deploy in a new VNET:

  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-4-349/ivanti-zta-2-nics.json
  - https://pulsezta.blob.core.windows.net/gateway/templates/Azure/23-4-349/ivanti-zta-3-nics.json

  The following Azure VHD images are applicable to this release. Use the link most suitable for your geographic location:

  - Americas: https://pulsezta.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.4R1-349.1-SERIAL-hyperv.vhd
  - APJ: https://pulseztaapj1.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.4R1-349.1-SERIAL-hyperv.vhd
  - Europe: https://pulseztaeurope.blob.core.windows.net/gateway/ISA-V-HYPERV-ZTA-22.4R1-349.1-SERIAL-hyperv.vhd

- **Google Cloud Platform**:

  The following template files are applicable to this release:

  - To deploy in an existing VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-4-349/ivanti-zta-2-nics-existing-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-4-349/ivanti-zta-3-nics-existing-vpc.zip
  - To deploy in a new VPC:
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-4-349/ivanti-zta-2-nics-new-vpc.zip
    - https://pulsezta.blob.core.windows.net/gateway/templates/GCP/23-4-349/ivanti-zta-3-nics-new-vpc.zip

  The following GCP gateway image is applicable to this release:
  https://pulsezta.blob.core.windows.net/gateway/ISA-V-GCP-ZTA-22.4R1-349.1.tar.gz

Fixed Issues

The following table describes the issues resolved.

Problem Report	Description
Release 22.6R1.2	
PZT-41502	Add/Delete Gateway in the Gateway Group is not working.
Release 22.6R1	
PZT-41452	Fixed wildcard with unsupported FQDN format.
PZT- 41443	ZTA Gateway Upgrade issue with VMware ESX.
PZT- 41414	Error when loading end user login or any other sign-in policy page.
PZT-38904	New GW deployment loses the interface configuration and controller registration details upon reboot from GCP Instance options.
PZT-41401	Unauthorized error 401 is displayed when trying to login as readonly/cxo/netadmin to the controller not having any Gateways registered.
PZT-41264	Page not found when trying to login with the pre-canned Network admin role configured under System >Admin Roles
PZT-40857	Non-compliance policy failure reason is empty on the drill down log view dashboard when non-compliance is reported while accessing RDP/Ipv4 application type.

Problem Report	Description
PZT-40518	Endpoint connection to the controller will fail and show the status as 'Failed' when Rule requirement >custom expression is configured under Secure Access > Manage Devices >Device Policies due to AAA journal version failure.
PZT-38858	After upgrading MOD AAA to latest build, assigned roles are missing in cache and admin login might fail.
PZT-38428	Location Device rule does not save properly when denying access from a specific city but allowing access from the same country.
PZT-38625	Controller UI should show error while creating Gateway Group if one of the Gateway in the Gateway Group is mapped with a known network tag in Gateway Selector configuration.
PZT-36750	Lockdown enable/disable done on tenant, taking 3-9 minutes to reflect in client connstore.dat file.
PZT-36813	Risk Sense evaluation for Windows 10 22H2 endpoints is returning as 'Not Available'.
Release 22.5R1.3	
PZT-41314	The connection status is shown as Connecting and some users are not able to establish the connection.
PZT-41403	Data is not loading on Insights > Overview page.
Release 22.5R1.2	

Problem Report	Description
PZT-40843	Fixed log swap issue between the gateway and timestamp fields.
PZT-41180	Page not found error while clicking on **Administration > Admin Management > Admin Roles** with read-only admin (pre-canned role) logging in.
Release 22.5R1	
PZT-39870	Multiple SAP policies having Device policy configured with AV rule results in incorrect cache on AAA.
Release 22.4R3	
PZT-38599	When device rule is edited, corresponding sign-in policy does not get updated with new policy.
PZT-39103	Issue in downloading logs from nSA is now resolved.
PZT-39050	New gateway deployed in GCP looses it's configuration upon first reboot from GCP Instance options.
PZT-39351	Application details with Kerberos/LDAP/NTP not detecting when migrating from ICS to ZTA.
PZT-29634	After upgrade or rollback Gateway certificate is shown wrongly in gateway group.
Release 22.4R1	
PZT-37223	ZTA connection fails with Invalid Client Certificate error.
PZT-38173	User name not displayed properly in tenant access logs.

Problem Report	Description
PZT-38101	If 22.2R1 or below version of gateways are present and OGS feature is configured, older Gateways may not go to ready state.
PZT-35144	Admin rules cannot be deleted when attached to an admin group.
Release 22.3R4	
PZT-36792	If a SAP is created with stand-alone non-ready gateways then that can trigger skipping of all the applications that have OGS.
PZT-37610	When Admin navigates to SAP page and expands two App groups, same Apps are shown for both App groups.
PZT-37611	When Admin navigates to SAP page, performing App group expansion and changing records per page leads to disappearance of expand option in SAP policy groups.
Release 22.3R2	
PZT-37228	Error while loading the Secure Access Policies page.
Release 22.3R1	
PZT-26902	Dynamic tunnel IP: NAT rules are not seen on Gateways when a newly added Gateway is added to a Gateway Group.
PZT-29624	The MSP admin portal UI is throwing an error when kept idle, and then not redirecting to the login page.
PZT-31679	An unregistered Gateway's status should show as Offline in the "Gateway By

Problem Report	Description
	Status" chart drill-down view when log grouping is applied, and also on the Landing page gateway detailed view.
PZT-32217	Search API triggered multiple times with different payload due to which the logs are not getting filtered intermittently when navigating from Insight Logs to Gateway Logs and vice-versa.
PZT-33284	If SAML user authentication is configured before enabling a custom domain, the SAML policy remains configured with the standard domain URL.
PZT-35770	:Invalid Client Certificate Error 1147 is seen during user connection.
PZT-36790	No alert generated for Policy configured on Enrollment URLs.
PRS-412051	The user is prompted multiple times to switch to the new UI when upgrading .
Release 22.2R1	
PZT-15594	Client configuration: Disable Splash screen option is not working.
PZT-22198	Mac Intune Client is not launching automatically after the client installation.
PZT-23470	CEF EUP on mac: With system local auth, some SSO apps are not launching with Safari as the default system browser, with a certificate prompt appearing twice.
PZT-24993	Linux Windows multi sign-in: Changing the user sign-in URL from one URL to another is not prompting for fresh credentials.

Problem Report	Description
PZT-26431	Certificate rotation on macOS: When the device certificate expires and the end-user attempts to connect, "Error 1151" is not prompting properly.
PZT-27640	Summary ribbon tile charts are not aligned properly.
PZT-28838	Gateways Overview: An L4 dashboard should display only the chart and table data based on the drop-down selected on the originating L2 dashboard chart. For example, selecting to view "Major Errors" should not show other error severity levels in the L4 view.
PZT-28841	Logs in the Gateways Overview L4 dashboard for the "Gateway Stats" chart shows only the current state (active view) logs despite the parent L2 dashboard page having a non-active view time period set.
PZT-28844	Unable to use the group-by feature with all the keys on the Gateways Overview L4 dashboards of "Top 10 gateways by Errors", "Access Trend" and "Gateway Stats".
PZT-29143	Unable to filter and search with "Gateway Status" set to "offline" and "Gateway Version" set to "pre-22.1" on the Gateways Overview L4 dashboard of "Gateway Stats".
PZT-29281	Gateways Overview "Top 10 Gateways by Health" chart displays the gateway statistics only for pre-22.1 s for "Previous Day" and "Previous Week" historic views.

Problem Report	Description
PZT-29811	Log Export might fail if the number of logs to be exported is more than 400K.
PZT-32742	Gateways older than the version provided with 22.2R1 are entering a bad state due to the inability to apply journal updates. After 15 minutes, the Gateway will do a full config pull and recover.
Release 22.1R1	
PZT-21416	EUP: Accessing RDP and SSH application links does not pick the default application installed on the device.
PZT-21813	Regression - Bookmarks API Response is fluctuating between 200 success and 500 error HTTP response codes under certain scenario.
PZT-24098	Global Device Preferences - the client is not honoring "Allow Delete Connection".
PZT-24546	Multi sign-in URLs: Login behavior is different for with standard login and non-standard multiple sign-in login URLs when no Secure Access Policy (SAP) is configured on the Controller.
PZT-27300	In a location device rule, it is not possible to update the City field by just typing locations rather than selecting them from the drop-down list fields.
PZT-27538	Date-picker is popping out of the main dashboard on the Connected Clients chart L4 detailed logs page, as the title of the chart is long.
PZT-27546	Policy Failure page summary strip is populated by data for the previous day

Problem Report	Description
	when the weekly historic view is selected.
PZT-27593	Configuring a SAML auth server using the manual method while leaving "IDP Slo Service" field empty can cause a 500 status code error.
PZT-27743	Due to low network bandwidth availability, upgrading a Gateway to the 21.12R1-95 build fails (the event logs shows "HTTP error 409 after PUT" messages continuously).
PZT-27999	CA rotation breaks leaf renewal for 21.9.3 12679.
Release 21.12R1	
PZT-26604	Sessions are not timing out on the Controller even when there is no corresponding user session on a client device.
PZT-27416	Handle the Policy Failure by Locations chart visibility on Policy failures page.
Release 21.6R1	
PZT-20309	Error while installing the client.
Release 21.1R1	
PZT-15937	"dsunitytaskd" process failed in ESXI 189 gateway while upgrading to 131.
Release 20.12R1	
PZT-15533	Client Configuration - Save User credentials option does not work.
Release 20.10R1	
PZT-10907	Configuring single user rule to match multiple values is not supported.

Problem Report	Description
Release 20.9R1	
PZT-11677	SAML Authentication fails if the azure metadata is uploaded for first time.

Known Issues

The following table describes the open issues with workarounds where applicable.

Problem Report	Description
Release 22.6R1	
PZT-42203	**Symptom**: While editing an existing FQDN app policy with App Discovery enabled to a URL based policy, App Discovery checkbox gets greyed out and not editable. **Workaround**: • Uncheck the App discovery first and then edit the application URL. • Convert wildcard to URL.
PZT-41958	**Symptom** : ZTA Gateway shows upgrade failed and shows a different version on the Secure Access Gateways dashboard when upgraded to latest version but the console of the gateway is successfully upgraded. **Workaround** : None. End to end use case when connecting to the gateway is not impacted as the gateway is already upgraded to the latest version.
PZT-42049	**Symptom**: Analytics Dashboard and Gateway logs are not synced with nSA. **Condition**: ICS Gateways running on cloud with version 22.5R2 or above.
PZT-41797	**Symptom**: Upgrade/Downgrade of ESAP might cause bad config state, if configured product not present in old release.

Problem Report	Description
	Workaround: If new product is configured with new ESAP version and downgraded to older version where that product is not available. Admin has to manually delete that product to get back the tenant in normal state. For example, when upgrading from ESAP 4.1.6 to ESAP 4.2.6, admin has to manually remove the vendor name "Broadcom" and product name "Symantec Endpoint Protection (0.0.x)" from the configured AV/AS/Firewall device policies.
PZT-41821	**Symptom**: Gateway UI will not validate IP address /subnet and subnet GW info while creating ZTA Gateway under Manage Gateways. **Workaround**: Admin has to provide the correct interface IP/subnet and subnet default Gateway info while configuring ZTA Gateway.
PZT-41719	**Symptom**: UEBA Threat data for the user in the ZTA analytics dashboards as compared to the UEBA Threat report is different for the same timestamp. **Workaround**: NA
PZT-41837	**Symptom**: UEBA Threat score and UEBA Threat rank is not showing accurate for the users in active and historic view on the Analytics dashboards in case of simultaneous (ICS + ZTA) scenario. **Workaround**: NA
Release 22.5R1.2	
PZT-41401	**Symptom**: Error 401 un-authorized when trying to login to the tenant with any of the pre-canned role like read-only, cxo and net admin if there are no gateways registered in the controller. **Workaround**: Register ZTA gateway in the tenant controller and login.
PZT-41264	**Symptom**: Page not found when trying to login with the pre-canned Network admin role configured under System >Admin Roles

Problem Report	Description
	Workaround : Create a custom admin role with only permissions to view the Manage Gateways dashboard which serves the purpose of the Network admin role.
PZT-41319	**Symptom**: After a fresh installation of the client, it closes unexpectedly. **Condition**: Manual or browser installation of the client. **Workaround**: Open the client from the system tray.
Release 22.5R1	
PZT-40857	**Symptom** : Non-compliance policy failure reason is empty on the drill down log view dashboard when non-compliance is reported while accessing RDP/Ipv4 application type. **Workaround** : NA
PZT-40739	**Symptom**: Non-compliance policy failure reason on L4 (drill down) log dashboard states all the strings related to host check (HC) failures instead of a specific string, which caused the failure for that specific application access. **Workaround**: NA
PZT-37613	**Symptom**: The timestamp displayed under the cards in the User Info panel on Landing page is incorrect in the historic view. **Workaround**: NA
PZT-39046	**Symptom**: End user logins will be blocked and admin login shows 401 error when AAA journal version is in bad state once a new ESAP version is activated under Administration> Installers > ESAP.

Problem Report	Description
	Workaround: Edit the already configured Device Policy and remove the unsupported products from it and add the supported products. This applies for all the OPSWAT based device policies (Antivirus, Firewall, Patch, Antispyware) irrespective whether these device policies are enforced on a specific Secure Access Policy.
PZT-40518	**Symptom**: Endpoint connection to the controller will fail and show the status as 'Failed' when Rule requirement > custom expression is configured under Secure Access > Manage Devices > Device Policies due to AAA journal version failure. **Workaround**: Edit the device policy with custom expression and save again so AAA journal version will recover.
Release 22.4R3	
PZT-38904	**Symptom** : Tenant admin UI will be logged out frequently with 401 error and end user connections will be blocked due to incorrect cache in AAA. **Workaround** : Find the XML import failure log in **Insight > Admin logs** and remove the unsupported product version from the device rule and save it.
PZT-39870	**Symptom**: Multiple SAP policies with having Device policy configured with AV rule results in incorrect cache on AAA. **Workaround**: NA
Release 22.4R1	
PZT-39050	**Symptom**: Intermittently it is observed inconsistency in historic view data in analytics dashboards **Workaround**: NA

Problem Report	Description
PZT-38904	**Symptom** : GCP gateway is not in the connected state after reboot. Using the GCP VM control options (Reset and Stop/Start) **Workaround**: Post deploying the gateway instance in GCP after the successful registration of gateway to the controller, reboot from serial console of the instance once to avoid the issue. Also we dont recommend to use hard reset to reboot the cloud gateways.
PZT-39351	**Symptom** : Application details with Kerberos/LDAP/NTP or unknown port numbers not detecting while creating Secure Access Policy when migrating from ICS to ZTA. **Workaround** : Admin need to modify the application details manually by adding the relevant port number at the end of FQDN/IP. For example in case of LDAP, ldap://<FQDN> need to be changed to <FQDN>:389 and for Kerberos, kerberos://<IP> need to be changed to <IP>:88
PZT-29634	**Symptoms**: Ivanti client is not able to connect to the gateway and fails with error 1147 - Invalid client certificate during upgrade/rollback of a standalone or gateway group **Workaround**: If it is a standalone gateway, then the gateway need to be added to a gateway group and removed back to perform certificate renewal and reboot the gateway. If a gateway is already a part of gateway group, then it needs to be removed and added back to the gateway group.
PZT-38904	**Symptom** : GCP gateway is not in the connected state after reboot using the GCP VM control options (Reset and Stop/Start)

Problem Report	Description
	Workaround : Post deploying the gateway instance in GCP after the successful registration of gateway to the controller, reboot from serial console of the instance once to avoid the issue. Also we dont recommend to use hard reset to reboot the cloud gateways.
PZT-39046	**Symptom**: End user logins will be blocked and admin login will show 401 error when AAA journal version is in bad state once a new ESAP version is activated under Administration > Installers > ESAP. **Workaround**: Edit the already configured Device Policy and remove the unsupported products from it and add the supported products. This applies to all the OPSWAT based device policies (AntiVirus, Firewall, Patch, AntiSpyware) irrespective whether these device policies are enforced on a specific Secure Access Policy.
PZT-39002	**Symptom**: At end of every end UEBA Threat Score is recalculated and there could be a change in the Threat Score **Workaround**: NA
PZT-38858	**Symptom**: After upgrading MOD AAA to latest build, assigned roles are missing in cache and admin login might fail. **Workaround**: After upgrading edit admin groups and then save.
PZT-38995	**Symptom** : Enrollment/Auth is blocked when connection is made from an endpoint which does not have the source_IP listed in allow/block criteria in the Network device policy which is enforced on User policy. **Workaround** : Create Network Device policy to allow the source_IP/s instead of denying as the default action is to deny.

Problem Report	Description
PZT-38975	**Symptom** : 500 error intermittently seen on the dashboard when un-enrolling clients from 'Manage Devices' and new device enrollment will fail on the endpoint due to connectivity issue between the client service and redis. **Workaround** : Restart client service on the controller.
PZT-38722	**Symptom**: Non-compliance count mismatch on the analytics dashboards in the summary strip and non-compliance info panel in historic view when non-compliances are reported in the same hour from the same user. **Workaround**: NA.
PZT-38718	**Symptom**:CARTA check failing on MAC OSX for the predefined and custom device policies. **WorkAround**: Disconnect and connect again to re-evaluate the compliance and perform remediation accordingly.
PZT-38717	**Symptom**: Firewall device policy not evaluated on the endpoint when default Microsoft product is configured while having 'Rule options' and rule monitoring on. **Workaround**: NA
PZT-38690	**Symptom**: If previously selected Client package version is not present after upgrade, latest version will be set to default with auto upgrade enabled. **Workaround**: Select the required client version if the admin don't want to use latest client version after upgrade.
PZT-38619	**Symptom**: RiskSense Notify device policy blocks enrollment via web browser when applied on the Enrollment User sign policy.

Problem Report	Description
	Workaround: Device policy should be configured with multiple device rules apart from RiskSense notify policy OR Connect to ZTA connection profile directly from Ivanti client already installed on the endpoint.
PZT-38618	**Symptom**: UI misaligned when host checker policy fails in the web browser and 'Try Again' button is clicked on Windows endpoint **Workaround**: NA
PZT-38599	**Symptom**: Device policy enforced on the sign-in policy does not get updated when any device rule is modified to that corresponding device policy. **Workaround**: Navigate to Secure Access->Manage Users->User Policies and EDIT the User policy where the device policy is enforced and 'Update User policy'.
PZT-38502	**Symptom**: Non-compliance card shown on Analytics dashboard for applications having device policy enforced which is configured for one Operating System and the non-compliance is reported on another Operating System. **Workaround**: NA
PZT-38501	**Symptom**: SAML user with error "invalid assertion" received on the endpoint frequently in the CEF browser when connecting to ZTA. **Workaround**: Click on 'Sign-in' and re-try on getting the error dialog with "invalid assertion".
PZT-38428	**Symptom**: Location Device rule does not save properly when denying access from a specific city but allowing access from the same country. **Workaround**:Delete the location rule and add a new one.

Problem Report	Description
PZT-38327	**Symptom**: No error string or instruction displayed on the Ivanti client when Network/Location/RiskSense policy is enforced on User Enrollment/Authentication Sign in URL and the compliance fails on the endpoint due to any of these device policies. **Workaround**: Navigate to Insight->Logs->Access logs to view the compliance logs for admin. NA for the end user.
PZT-38315	**Symptom**: ZTA gateway console may show Register as one of the option in the menu, even though the Gateway is already registered. **Condition**: Sometimes with Cloud it is taking a while for the registration process to get completed. Hence when the console options are displayed after registration process is triggered , the register option is still present in the console menu. **Workaround**: Pressing enter key after few secs the register option won't be present in the gateway console menu.
PZT-38265	**Symptom**: Controller UI should show error while creating Gateway Group if one of the Gateway in the Gateway Group is mapped with a known network tag in Gateway Selector configuration. **Workaround**:NA
PZT-38256	**Symptom**: Session Migration from one network to another still shows the session with the older source IP under Insights->Users-> Active Sessions. **Workaround**: NA
PZT-37981	**Symptom**: Time Of Day Device policy cannot be enforced while creating Secure Access Policy when gateway selectors are used. **Workaround**: Use standalone gateways or gateway groups instead of gateway selectors.

Problem Report	Description
PZT-37841	**Symptom**: Report format CSV/JSON has the epoch timestamp instead of human readable. **Workaround** : NA
PZT-37765	**Symptom** : Authentication URL gives error as 'SAP is not configured' when trying to open from browser **Workaround** : Navigate to Secure Access->Manage Users->User Groups. Edit the user group and save it again.
PZT-37613	**Symptom**The timestamp displayed under the cards in the User Info panel on Landing page is incorrect in the historic view. **Workaround**: NA
PZT-36884	**Symptom**: Sankey chart does not show the exact path for application being accessed with respect to user group. **Workaround**: NA
PZT-36623	**Symptom**: Allowed domains added under any configured application shows IP address instead of the application name when accessed on analytics dashboards. **Workaround**: NA
PZT-36050	**Symptom**: Sign in button is visible for the end user even when the UEBA score has crossed the threshold and user is denied login. **Workaround**: NA
PZT-29634	**Symptom**: Ivanti client will not be able to connect to the gateway and fails with error 1147 - Invalid client certificate. **Workaround**: Remove gateway from the gateway group and then add it back.

Problem Report	Description
PZT-27457	**Symptom**: Policy failure dashboard shows compliance and network rule failures when any one of the rule is passing on the client machine having a common policy enforced which comprises of network and compliance rules together. **Workaround**: NA
Release 22.3R4	
PZT-31655	**Symptom**: MFA Support : signing in an older version client through a MFA device policy with TOTP enabled causes a *loading components* page or loop after TOTP registration in the end-user portal. **Workaround**: TOTP is supported for client versions applicable to the 22.2R1 release only. Make sure your client software is up-to-date.
PZT-35144	**Symptom**: Admin rules cannot be deleted when attached to an admin group. **Workaround**: Select only rules that are not associated with any admin groups for deletion.
PZT-35194	**Symptom**: Applications page lacks row level actions. **Workaround**: Scroll to top after selection to edit/delete.
PZT-36050	**Symptom**: Sign in button is visible for the end user even when the UEBA score has crossed the threshold and user is denied login. **Workaround**: N/A
PZT-36753	**Symptom**: Subscription page gateway filters don't work under some conditions. **Workaround**: None
PZT-36884	**Symptom**: Sankey chart does not show the exact path for application being accessed with respect to user group. **Workaround**: N/A

Problem Report	Description
PZT-37424	**Symptom**: When ICS and ZTA components already installed on the endpoint, auth re-directs to default login URL instead of custom SAML auth URL when trying to enroll with multi sign-in URL. **Workaround**: Deep clean endpoint with all client components and do fresh installation.
PZT-37536	**Symptom**: Non-compliance cards not seen on the Analytics Dashboards for Application types - SSH, Telnet, RDP and IPv4. **Workaround**: N/A
PZT-37765	**Symptom**: Authentication URL gives error as 'SAP is not configured' when trying to open from browser. **Workaround**: Navigate to Secure Access > Manage Users > User Groups. Edit the user group and save it again.
PZT-37803	**Symptom**: The page appears broken when visiting Gateway Logs in Chrome browser. **Workaround**: Please follow these steps in your Chrome browser: 1. Go to chrome://settings/system. 2. Enable hardware acceleration by clicking on the "Use hardware acceleration when available" switch. 3. Relaunch the browser.
PZT-37841	**Symptom**: Report format CSV/JSON has the epoch timestamp instead of human readable. **Workaround**: N/A

Problem Report	Description
PZT-37912	**Symptom**: Auth Failure messages with the username as SYSTEM are observed in the Top Auth Failures chart on L2 All Users Dashboard when authentication method is SAML and the user has crossed the UEBA threat score threshold configured as a part of Actionable Insights. **Workaround**: N/A
PZT-37966	**Symptom**: When IP resource is added with FQDN sub-domain, FQDN sub-domain is not sent for the client. **Workaround**: Add FQDN as main resource and add IP as sub-domains.
PZT-37981	**Symptom**: Time Of Day Device policy cannot be enforced while creating Secure Access Policy when gateway selectors are used. **Workaround**: Use standalone gateways or gateway groups instead of gateway selectors.
PZT-38101	**Symptom**: If 22.2R1 or below version of gateways are present & OGS feature is configured, older gateways may not go to ready state. **Workaround**: Upgrade gateways to 22.3R1 and above to use OGS feature.
PZT-38173	**Symptom**: User name with %40 is shown in Tenant access log when SAML-based authentication and device policy are enabled at Secure Access Policy (SAP). **Workaround**: N/A
Release 22.3R3	
PZT-6921	**Symptom**: After un-enrollment of profile, the VPN connection should be disconnected instantly and the profile should be removed from .

Problem Report	Description
	Workaround: Open and move between the screens. A pop-up message should appear warning that the certificate is revoked. The profile is removed automatically.
PZT-7581	**Symptom**: VOD: is not notifying the end user when Notification is turned off. **Workaround**: Enable Notification for the in iOS Device settings.
PZT-8610	**Symptom**: Simultaneous connections: After switching to a new user, shows the enrollment details. **Workaround**: N/A
PZT-8740	**Symptom**: OS check for Android is failing while updating the policy dynamically. **Workaround**: None
PZT-8866	**Symptom**: Dynamic policy update is not working when the same iOS OS device policy is updated for deny and allow access. **Workaround**: None
PZT-9926	**Symptom**: ESAP Upgrade for sometimes does not work when classic VPN and connections use different ESAP versions. **Workaround**: Make sure classic VPN and connections use the same ESAP version.
PZT-9979	**Symptom**: Captive portal detection is not working with connection. **Workaround**: Open a browser window. The user should then be re-directed to the Captive portal for Guest authentication.
PZT-10287	**Symptom**: Resource access is not going over when chrome is enabled with Secure DNS feature.

Problem Report	Description
	Workaround: Disable the Secure DNS option on chrome settings or use the DNS server which supports 443. https://en.wikipedia.org/wiki/Public_recursive_name_server
PZT-10340	**Symptom**: [Windows] Simultaneous connections: With the bng-vpn and (corporate) connections both active, Microsoft Outlook is not reachable. **Workaround**: N/A
PZT-10600	**Symptom**: [Windows] nslookup with non- FQDNs is always forwarded to the DNS server. **Workaround**: N/A
PZT-10946	**Symptom**: 9.2.0 On-Demand : will be triggered only when the per-app application is being used to access the resources. **Workaround**: N/A (Use Classic Per-app VPN applications to access the resources to get connect with).
PZT-10971	**Symptom**: 9.2.0 Transition : Update MDM profile and push disconnects the connection. **Workaround**: N/A (MDM always set its latest update configuration as default and it is limitation).
PZT-12681	**Symptom**: for Windows 10 prompts for credentials when the device is unenrolled. **Workaround**: Post-enrollment, wait for approximately 2 minutes and try to connect to the controller. The user will get the Certificate revoke message, and after accepting the warning the profile and certificates are deleted.
PZT-14224	**Symptom**: If you have a classic OnDemand VPN connection and your connection is in monitoring mode, when you attempt to access a resource, connects to the classic OnDemand VPN profile and displays a transition notification to the user. **Workaround**: N/A

Problem Report	Description
PZT-14316	**Symptom**: fails with *Error-1111* when a classic VPN fails to resolve the FQDN. **Workaround**: The user must disconnect both classic and connections, then connect first followed by the classic VPN. Alternatively, set the client DNS IP address to public to facilitate resolving classic and connections.
PZT-14581	**Symptom**: When for Desktops is uninstalled, stale certificates are not cleaned up. **Workaround**: Manually delete certificates from the Cert/Key Store.
PZT-15072	**Symptom**: The AAA service should send only one alert for one object error. **Workaround**: N/A
PZT-15278	**Symptom**: Client config- Mac- Delete and Add connection not allowed, but the Add and Delete button is not shown as disabled. **Workaround**: N/A
PZT-19786	**Symptom**: Login not happening immediately after resetting password for account lock cases. **Workaround**: N/A
PZT-20681	**Symptom**: "subject_name_format" and subject_ name" SAML attributes are displayed under the SAML config table, and custom attributes are displayed under the SAML app attributes table as expected. Once configured, these attributes are not deleted even if the admin tries to delete them through the UI. We are still allowing deletion since we have to allow the admin to change the values if needed. **Workaround**: N/A
PZT-23409	**Symptom**: CEF EUP on mac: Network error message is thrown in the CEF-based EUP post-authenticating with .

Problem Report	Description
	Workaround: Close the CEF portal and launch it again.
PZT-25360	**Symptom**: Gateway service REST API: Dynamic tunnel configuration values are incorrectly exposed. **Workaround**: Updated APIs are targeted to be made available in v21.11.
PZT-26083	**Symptom**: A resource or application is intermittently not accessible when the connection resumes from the Connect-Idle state. **Workaround**: Close the web browser and Launch the application through the end-user portal.
PZT-26394	**Symptom**: In some scenarios, logs are not visible in the Controller for an ESXi gateway. **Workaround**: Perform a warm restart of the Gateway from the console.
PZT-26399	**Symptom**: sometimes gets stuck in a connect requested state. **Workaround**: N/A
PZT-27820	**Symptom**: Windows 11: An internet application is blocked when the same DNS IP address is configured on both the client device's physical network interface and in the DNS settings. **Workaround**: Use a different DNS IP address for the physical interface and for the DNS settings.
PZT-29002	**Symptom**: Manual configuration of a SAML authentication server is not supported with Gateways older than v21.12. **Workaround**: Upgrade all Gateways to v21.12 or later. Alternatively, for Gateways older than v21.12, use only the metadata file based configuration method.

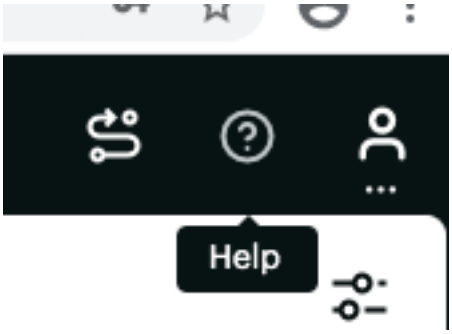
Problem Report	Description
PZT-29280	**Symptom**: In some circumstances, Gateways are not being automatically upgraded as per the configured maintenance schedule. **Workaround**: If a scheduled update fails, update the Gateway manually.
PZT-31744	**Symptom**: Application Groups filter is not shown correctly and is hidden behind another panel. Unable to view the filtered application fully in the chip below. **Workaround**: None
PLD-952	**Symptom**: Unable to take a connection to the state where On-Demand functionality is initiated. **Workaround**: N/A
Release 22.3R1	
PZT-27457	**Symptom**: Policy failure dashboard shows compliance and network rule failures when any one of the rule is passing on the client machine having a common policy enforced which comprises of network and compliance rules together. **Workaround**: None
PZT-34006	**Symptom**: Even when default policy evaluation fails, controller to client connection will be intact and not disconnected. **Workaround**: None
PZT-35683	**Symptom**: CARTA Message appears in Client Window, while searching any Non Compliance application in search engine. **Workaround**: Disable this prefetching feature in the browser (For example, Google Chrome).
PZT-36083	**Symptom**: ISAC Uninstallation will be stuck with Certificate deletion prompt on Windows for connections. **Condition**: On uninstalling ISAC with client connection.

Problem Report	Description
	Workaround: None
PZT-36623	**Symptom**: Allowed domains added under any configured application shows IP address instead of the application name when accessed on Analytics dashboards. **Workaround**: None
PZT-36639	**Symptom**: Session Details not reported on and logs are not generated. **Workaround**: None. Do not edit the JSON filter manually.
PZT-36750	**Symptom**: Lockdown enable/disable done on tenant, taking 3-9 minutes to reflect in client connstore.dat file. **Condition**: When we make changes with respect to lockdown in the tenant. **Workaround**: None
PZT-36813	**Symptom**: Risk Sense evaluation for Windows 10 22H2 endpoints is returning as 'Not Available'. **Workaround**: Install any VLC app.
PZT-36911	**Symptom**: Top Risky Applications chart does not show any data when gateway filter is applied on All Users dashboard. **Workaround** : N/A
PZT-36976	**Symptom**: Internet Traffic might be blocked during reconnection after recovering from sleep. **Workaround**: Restart the dsAccessService using Activity monitor or restart the machine.
PZT-36977	**Symptom**: connection shows "Limited connectivity" and "Invalid client Certificate" messages. **Workaround**: In the UI, delete the connection and then add the connection manually.
PCS-38630	**Symptom**: Upgrade from pre-22.3R1 to 22.3R1 appears to be stuck after importing system data.

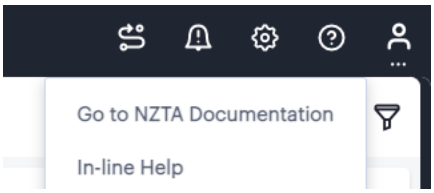
Problem Report	Description
	Condition: When upgrading the gateway from pre-22.3R1 to 22.3R1. **Workaround**: The issue is seen due to increase in ICS package size. Refer https://kb.pulsesecure.net/articles/Pulse_Secure_Article/KB44877/?kA13Z000000L3Z5
PCS-39165	**Symptom**: For realms with TOTP enabled as secondary auth server. Authentication may fail with an Internal error occurred log. **Workaround**: • Go to Users Realm > Realm Name > Secondary Auth server. • Select any other Auth server available in the list and save. • Select the previously selected Auth server.
PCS-39291	**Symptom**: When Home Icon in Floating tool bar is clicked, the end-user gets "The page you requested could not be found" error. **Conditions**: When the user clicks on Home Icon in the floating tool bar within an Advanced HTML5 session. **Workaround**: Clear the browser cache and re-try.

Documentation and Technical Support

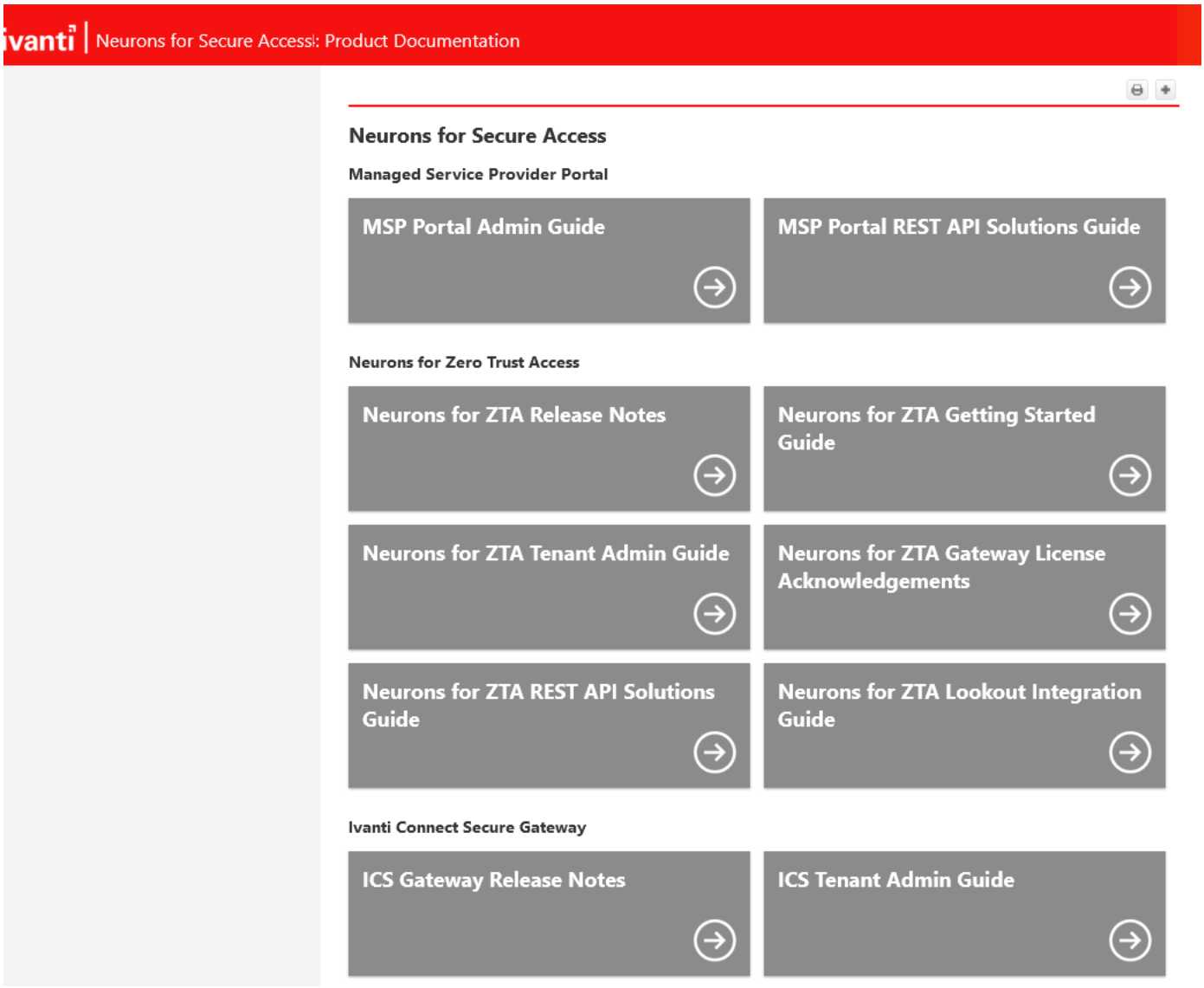
nZTA documentation for administrators is available from the Tenant Admin portal. If you are an administrator, login to the portal using the URL provided in your welcome email after setting up your product subscription. To access product help and documentation links, click the "?" help icon in the navigation bar:



From the drop-down list of Help options, click "Go to NZTA Documentation":



The nZTA documentation cover page opens in a separate browser window. Use this page to browse through the available guides.



To access nZTA documentation, you must be logged in to the Tenant Admin portal.

For other Ivanti products, documentation is available at https://help.ivanti.com/

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation. Find CSC offerings: https://forums.ivanti.com/s/contactsupport

Technical Support

When you need additional information or assistance, you can contact Technical Support:

- https://forums.ivanti.com/s/contactsupport
- support@ivanti.com

Revision History

The following table lists the revision history for this document.

Revision	Revision Date	Description
2.0	November	22.6R1.2 release notes
1.9	October 2023	22.6R1 release notes
1.8	July 2023	22.5R1 release notes
1.7	June 2023	22.4R3 release notes
1.6	April 2023	22.4R1 release notes
1.5	February 2023	22.3R4 release notes
1.4	November 2022	22.3R1 release notes
1.3	October 2022	22.2R5 release notes
1.1	October 2022	22.2R4 release notes created
1.0	July 2022	22.2R1 release notes created