

About BlueCat Infrastructure Assurance

BlueCat Infrastructure Assurance is a proactive network monitoring and automation solution. Customers use BlueCat Infrastructure Assurance to gain deep visibility into their DNS, DHCP, and IP address management (together known as DDI) infrastructure. It automates repetitive network tasks such as ongoing maintenance and high availability validation steps. Out of the box, this solution knows how to collect the most relevant data from DDI infrastructure components and analyzes it according to known best practices.

How does BlueCat Infrastructure Assurance work?

BlueCat Infrastructure Assurance uses SSH and SNMP protocols to connect and run collection scripts on BlueCat Address Manager (BAM) and BlueCat DNS/DHCP servers (BDDSeS) using CLI commands or SNMP MIB files. These scripts run continually and undergo continuous analysis. BlueCat Infrastructure Assurance notifies users of potential issues before they become bigger problems, along with actionable remediation steps.

Key capabilities

Device health monitoring and detection

BlueCat Infrastructure Assurance continuously analyzes metrics to track device health and posture. It proactively notifies users before problems occur, avoiding outages. Use cases include:

- High availability verifications: Ensure configuration across DNS/DHCP clusters is correct and consistent, and ensure clusters are operational.
- External services: Monitor critical services for dynamic updates.
- Best practices: Get recommendations for vendor-specific best practices and golden configuration conformance to avoid outages.

Management tools to reduce risk

BlueCat Infrastructure Assurance offers a variety of tools for effective operational management that reduces risk. With these tools, users can:

- Visually track critical metrics over time and correlate issues to time of discovery for more effective troubleshooting.
- Build and schedule custom reports for devices not conforming to best practices or that are non-compliant.
- Utilize role-based access control to restrict access and read-only privileges for certain users.
- Segregate information with granular device permissions, restricting users' views to their respective purviews.

Support informed by user data

BlueCat Infrastructure Assurance's cloud-based analytics service contains production data collected from its users to provide proactive customer support. The data includes issues identified in user environments, scripts executed, and metrics collected.

Integration with APIs and applications

BlueCat Infrastructure Assurance improves efficiency for IT teams through integration of email, syslog, APIs, and SNMP traps. Furthermore, users can:

- Carry out commands using APIs to retrieve information from or to BlueCat Infrastructure Assurance.
- Centralize authentication with Active Directory via LDAP, RADIUS, or SAML 2.0.
- Integrate with ticketing systems such as ServiceNow.
- Integrate with monitoring solutions such as Solarwinds Network Performance Monitor or BigPanda.
- Integrate with data visualization tools such as Grafana or Tableau.

System requirements

The sizing of BlueCat Infrastructure Assurance is critical to its overall stability and performance. Various sizes are available for different deployment scenarios. The requirements listed below are for up to 1,000 devices and are minimal recommendations. Please reach out to your BlueCat representative with questions.

Device Count	1-30	31-100	101-300	301-1,000
Server	<ul style="list-style-type: none">• 8 vCPU Xeon or i7• 8 GB RAM• 180 GB HD (3000 IOPS)	<ul style="list-style-type: none">• 16 vCPU Xeon or i7• 16 GB RAM• 180 GB HD (3000 IOPS)	<ul style="list-style-type: none">• 32 vCPU Xeon or i7• 64 GB RAM• 400 GB HD (6000 IOPS)	<ul style="list-style-type: none">• 64 vCPU Xeon or i7• 96 GB RAM• 400 GB HD (8000 IOPS)
Browser	<ul style="list-style-type: none">• Internet Explorer 11• Chrome• Edge	<ul style="list-style-type: none">• Internet Explorer 11• Chrome• Edge	<ul style="list-style-type: none">• Internet Explorer 11• Chrome• Edge	<ul style="list-style-type: none">• Internet Explorer 11• Chrome• Edge

Supported devices

BlueCat Address Manager	<ul style="list-style-type: none">• BAM 1000/3000/5000/6000/7000• XMB• Virtual appliance or virtual instance in AWS or Azure• Running 9.4 or later
BlueCat DHCP/DNS Servers	<ul style="list-style-type: none">• BDDS 20/25/45/50/60/75/120• XMB• Virtual appliance or virtual instance in AWS or Azure• Running 9.4 or later

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Next steps

Reach out to a BlueCat representative to future-proof your network.

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